ANNUAL REPORT 2021

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HEALTH RESEARCH INSTITUTE
SANTIAGO DE COMPOSTELA

EDITION AND PRODUCTION

Scientific-Technical Coordination of the
Health Research Institute of Santiago de Compostela

José Ramón Castro Ruibal
Technical Management

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Technical Management

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APPROVAL

IDIS Board of Directors Meeting
Santiago de Compostela, on 23 May 2022.

ANNUAL REPORT 2021

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Mª Luz Couce Pico
Directora Científica
Scientific Director

O 27 de setembro de 2021 asumín o cargo de dirección científica deste Instituto, fíxeno consciente de que supón un compromiso e un reto moi importante xa que o IDIS é un dos grandes institutos de investigación biomédica de España. Non cabe dúbida de que os anteriores directores científicos, Carlos Diéguez inicialmente e José Castillo nos últimos 10 anos, impulsárono para que teña ese prestixio actual e dende aquí transmito o noso agradecemento.

Presentar o informe de 2021 é motivo de orgullo e satisfacción xa que seguimos con paso firme a pesar das circunstancias que se deron co COVID-19.

O IDIS está formado por grupos altamente competitivos que son un referente internacional no seu ámbito, cunha excelente calidade científica e cun crecente nivel de captación de fondos, tal e como recolle o informe.



Non obstante, hai que seguir nese camiño mantendo un alto nivel de esixencia e tendo presente o relevo xeracional para seguir nese nivel. Hai que potenciar plataformas e servizos de apoio de uso común, que estean acreditadas e que nos permitan realizar investigacións de prestixio. A innovación e a transferencia deben estar presentes no noso día a día, para que o IDIS sexa unha incubadora de empresas biotecnolóxicas. Superamos as auditorías internas e externas para a acreditación da Unidade de Ensaios Clínicos de Fase inicial; Con esta acreditación, a primeira de Galicia e unha das poucas de España, a nosa misión tamén é potenciar estes estudos.

Por outra banda, cómpre dar visibilidade ao que facemos, neste sentido hai unhas semanas presentamos unha nova web, máis dinámica e moderna, é misión de todos mantela actualizada.

Tamén queremos impulsar o plan de formación que se presenta periodicamente con investigadores de renome internacional.

E por todo iso, e aínda na liña da frase de Severo Ochoa "a investigación precisa máis cabezas que medios", no noso caso os medios físicos son imprescindibles. Precísase espazo para poder seguir medrando, necesitamos un novo espazo identitario común limítrofe co Hospital Clínico Universitario de Santiago de Compostela e a USC para dar un impulso á excelente ciencia e á atracción de talento investigador. Xuntos todos e co apoio das Institucións implicadas, agardamos conseguilo.

On September 27, 2021, I assumed the position of scientific director of this Institute, I have done so aware that it represents a very important commitment and challenge since IDIS is one of the great biomedical research institutes in Spain. There is no doubt that the previous scientific directors, Carlos Diéguez initially and José Castillo in the last 10 years, have promoted it so that it has this current prestige and from here I transmit our gratitude.

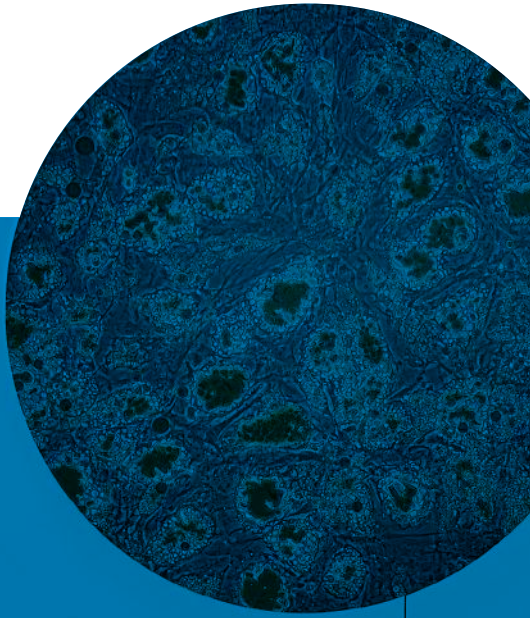
Presenting the report for 2021 is a source of pride and satisfaction as we continue with a firm step despite the circumstances that occurred with COVID-19. IDIS is made up of highly competitive groups that are an international benchmark in their field, with excellent scientific quality and a growing level of fundraising, as reflected in the report. However, we must continue on this path maintaining a high level of demand and bearing in mind the generational change in order to continue at that level. Support platforms and services for common use must be promoted, which are accredited and allow us to carry out prestigious research. Innovation and transfer must be present in our day to day, that IDIS be an incubator for biotechnological companies. We have passed the internal and external audits for the accreditation of the Early Phase Clinical Trials Unit; With this accreditation, the first in Galicia and one of the few in Spain, our mission is also to promote these studies.

On the other hand, we need to give visibility to what we do, in this sense we presented a new website a few weeks ago, more dynamic and modern, it is everyone's mission to keep it current. We also want to promote the training plan by establishing regular meetings with internationally renowned researchers.

And for all of this, and still in line with Severo Ochoa's phrase "research

needs more heads than means", in our case physical means are imperative. Space is needed to be able to continue growing, we need a new common identity space bordering the Hospital Clínico Universitario de Santiago de Compostela and the USC in order to give a boost to excellent science and the attraction of research talent. Together all of us and with the support of the Institutions involved, we hope to achieve it.

"IDIS is one of the great biomedical research institutes in Spain"



Se non coñezo unha cousa, investigareina

Louis Pasteur



Summary

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1 Executive summary

The Health Research Institute of Santiago de Compostela (IDIS) is a biomedical research center of marked translational character that takes advantage of the synergies of the University Clinical Hospital of Santiago de Compostela (CHUS) and the University of Santiago de Compostela (USC) to promote and encourage excellent research, scientific and technological knowledge and its subsequent transfer to the productive sector, as well as teaching and training, focused on a clear objective: to improve the people´s health.

MISSION

We are a translational biomedical research center that involves professionals with a sole objective: to improve the health of citizens.

VISION

To consolidate our position as a research center of reference, at both national and international level, in the innovative approach of the great challenges of the population in the healthcare field, promoting at all times the transfer of high impact results to society.

VALUES

- Integration and collaboration.
- Communication and transparency.
- Leadership and research excellence.
- Innovation and result transfer orientation.
- Responsibility to and for society.


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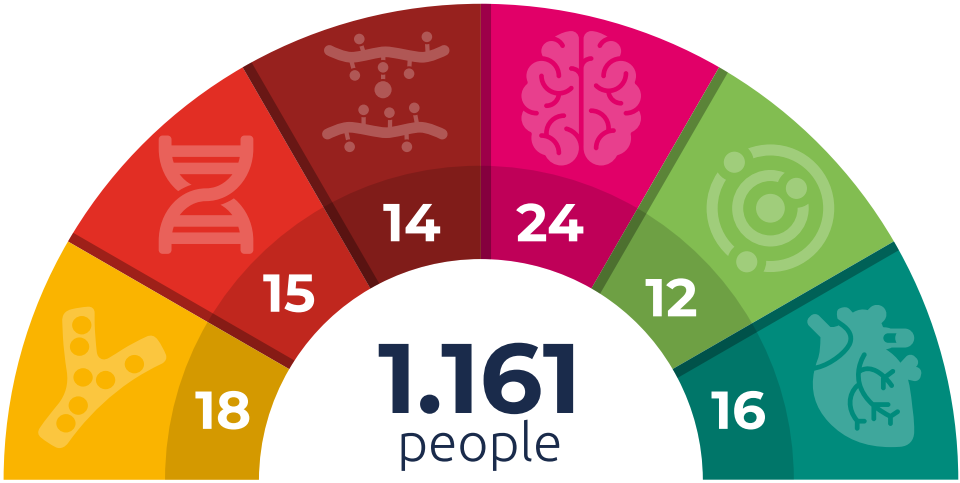
Total
funds raised
46.078.575,63 €
128
Projects
112
Donations
100
Clinical
trials
120
Other
studies
512
Contracts
and provision
of services
77
Staff
contracts
1.023
Published
articles
72
PhD
Theses
31
Granted
patents
107
Requested
patents

2 Global analysis

Number of groups per area

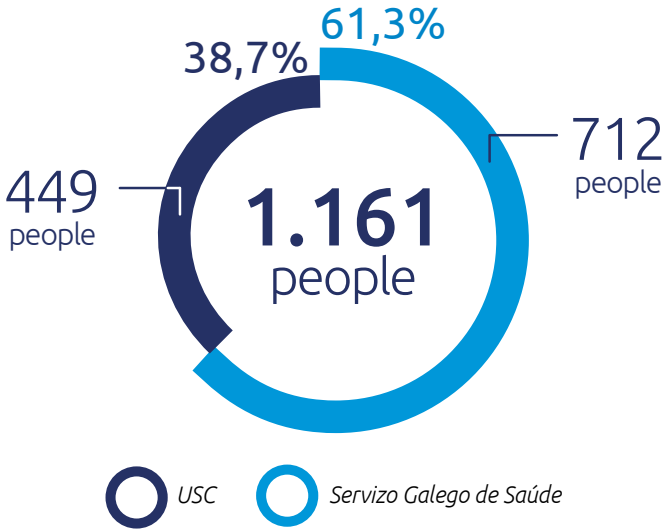
- Oncology
- Genetics and Systems Biology
- Endocrinology
- Neurosciences
- Platforms and Methodology
- Inflammation

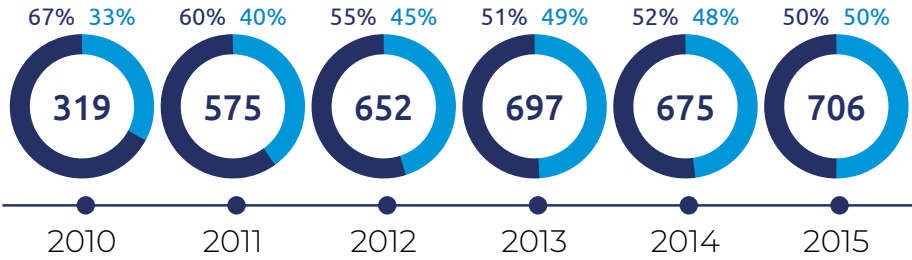


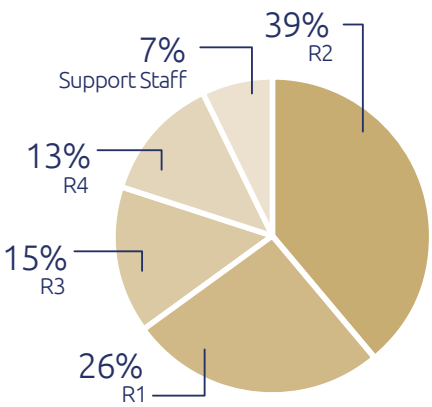
are integrated in **99 groups** organized in **6 research areas**

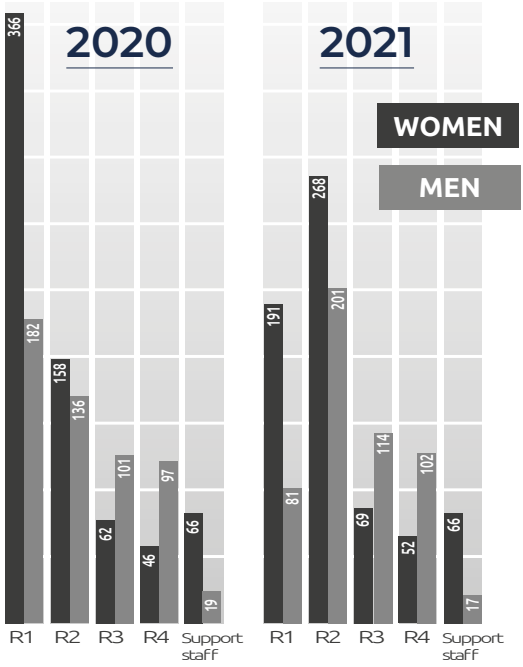
There is also a support area (Scientific-Technical Coordination and common support platforms for research).

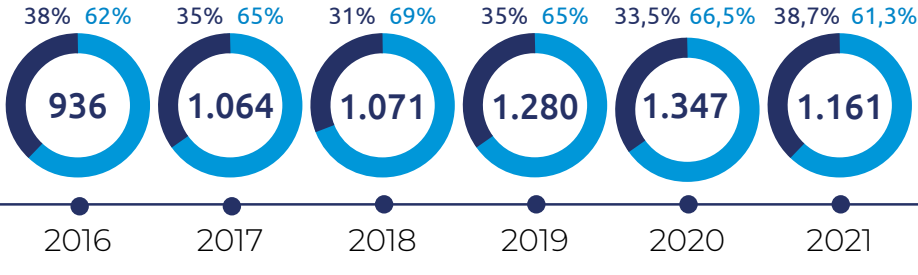
History of a joint venture: human resources in figures



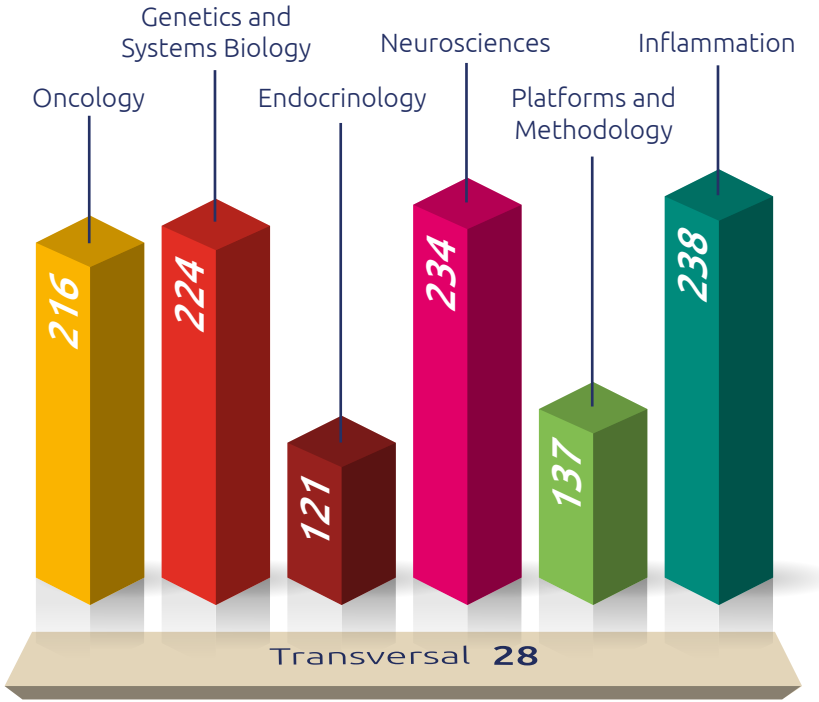


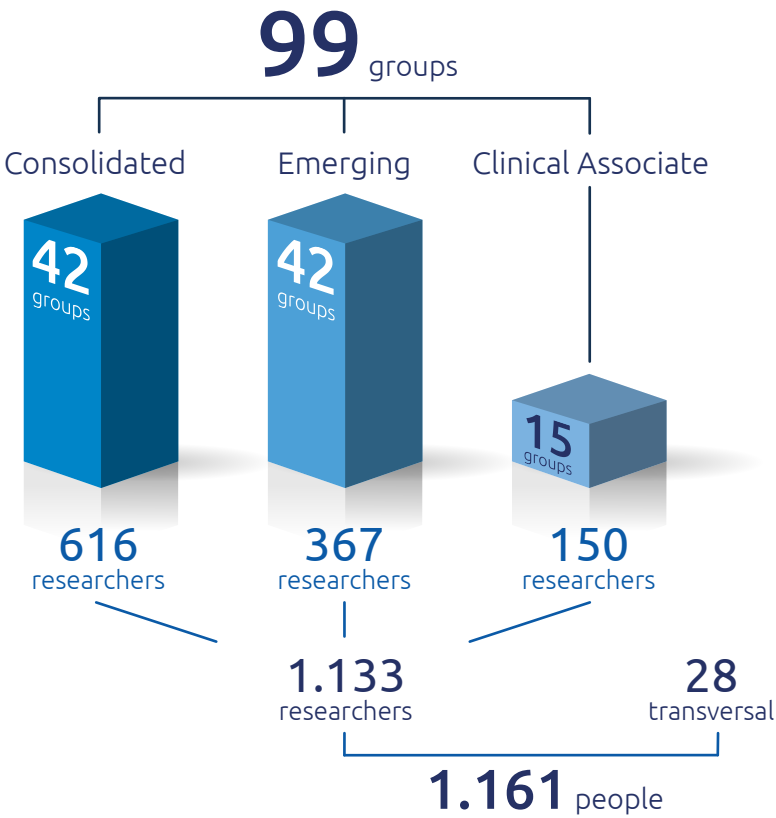

39%
R2
7%
Support Staff
13%
R4
15%
R3
26%
R1


2020
2021
WOMEN
MEN
366
182
158
136
62
101
46
97
66
19
191
81
268
201
69
114
52
102
66
17
R1
R2
R3
R4
Support staff
R1
R2
R3
R4
Support staff


38% 62%
936
35% 65%
1.064
31% 69%
1.071
35% 65%
1.280
33,5% 66,5%
1.347
38,7% 61,3%
1.161
2016
2017
2018
2019
2020
2021

Number of **researchers per area**




99 groups
Consolidated
Emerging
Clinical Associate
42 groups
42 groups
15 groups
616 researchers
367 researchers
150 researchers
1.133 researchers
28 transversal
1.161 people

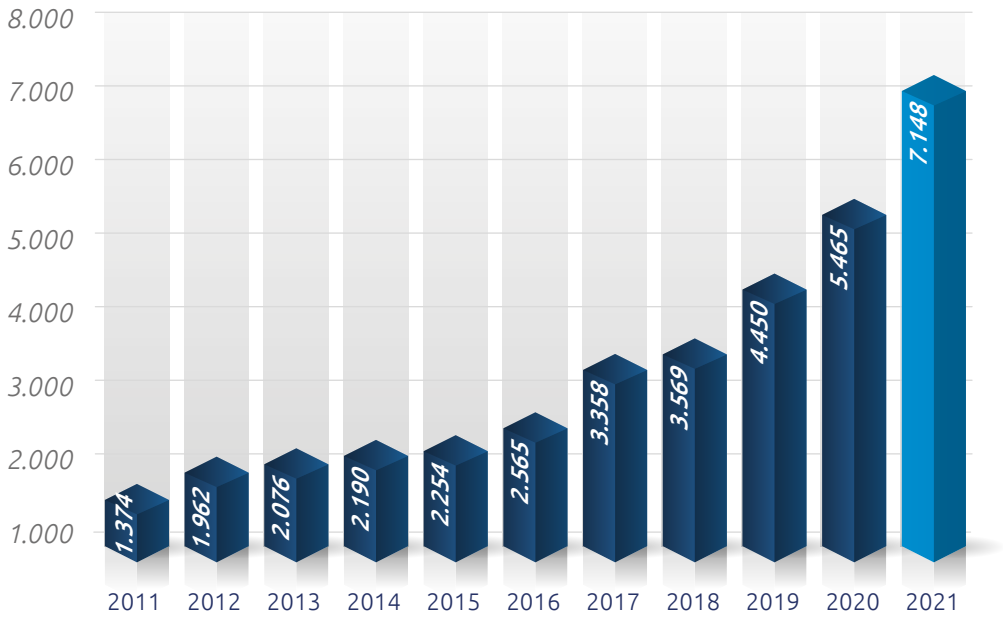
Number of **published articles per year**

The Institute has published **1.023 original scientific articles, editorials and reviews** in **527 international journals** indexed in the *Journal Citation Report* with a **cumulative impact factor of 7.148 points**.

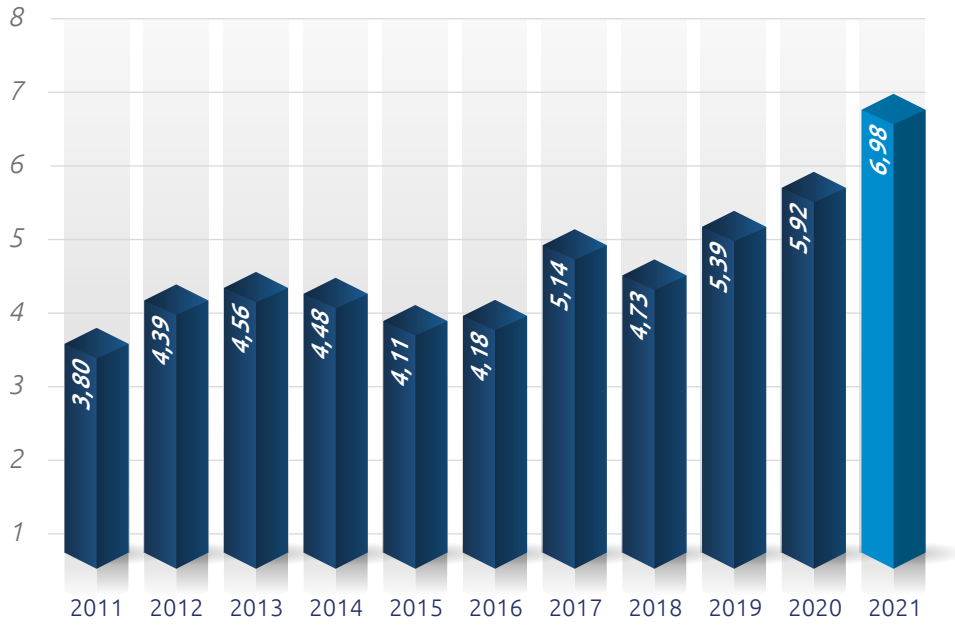


Cumulative impact factor

The upward trend of the **cumulative impact factor** is maintained since it moves **from 1.374 in 2011 to 7.148 in 2021**.

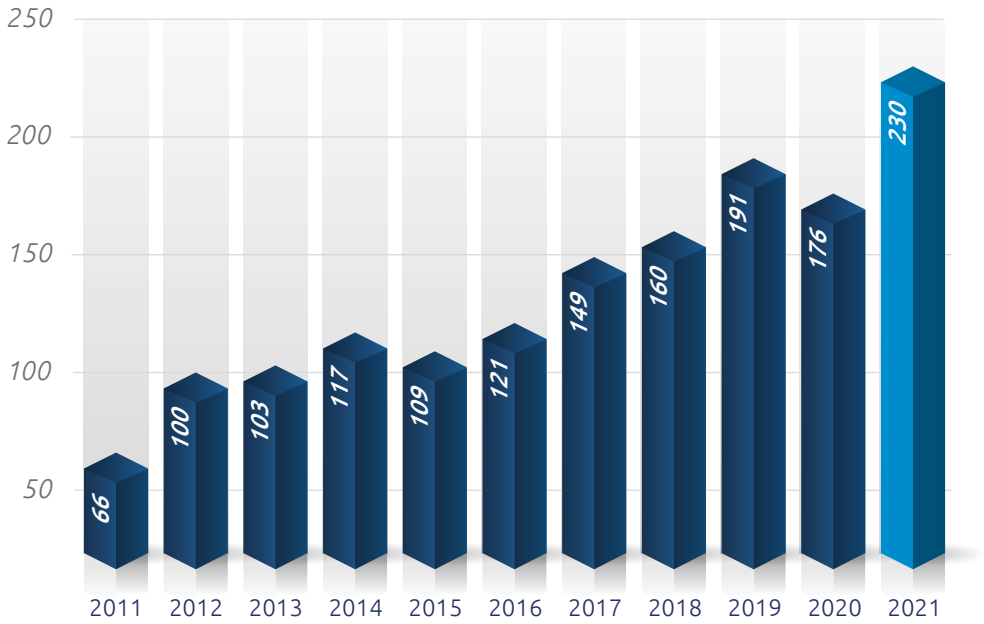


Average **impact factor**

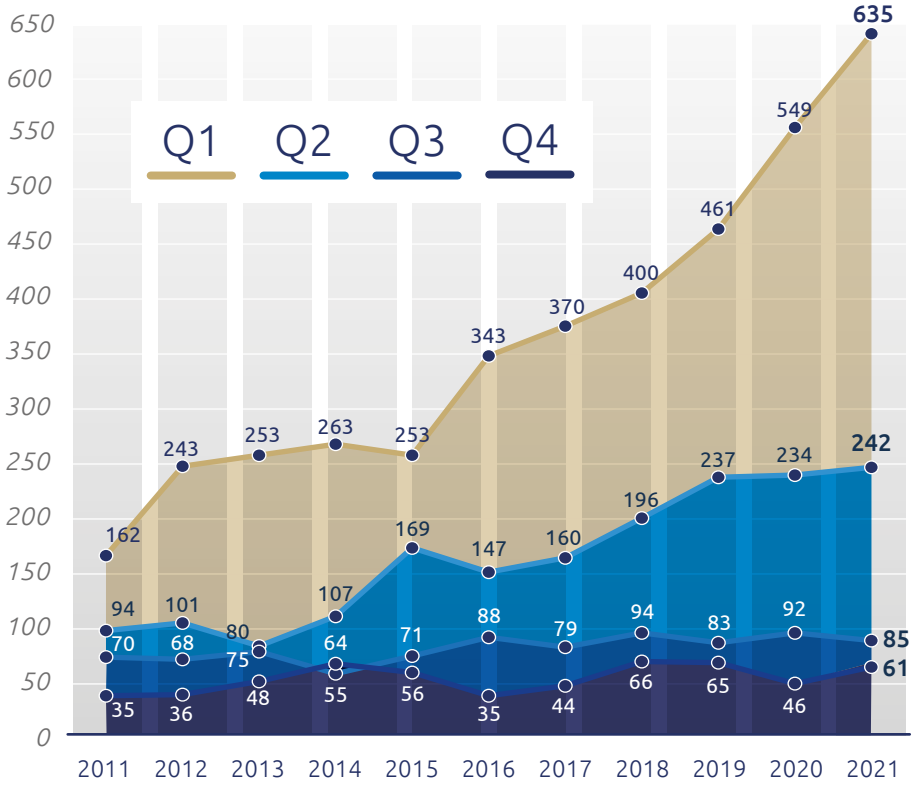


Number of **articles published in journals ranked** in the first decile

A remarkable increase in top ranked journals for the same period **from 66 articles published in 2011 to 230 in 2021**.



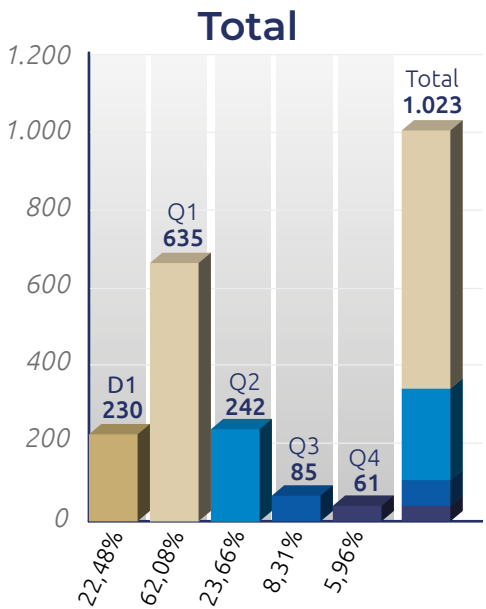
Number of **published articles** per year, by journal quartile

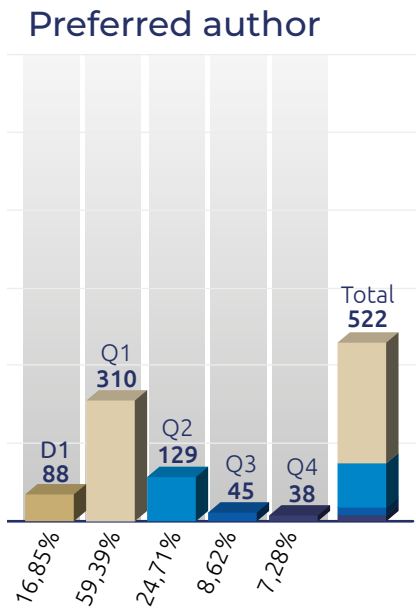


Number of **publications** and % of the total in 2021

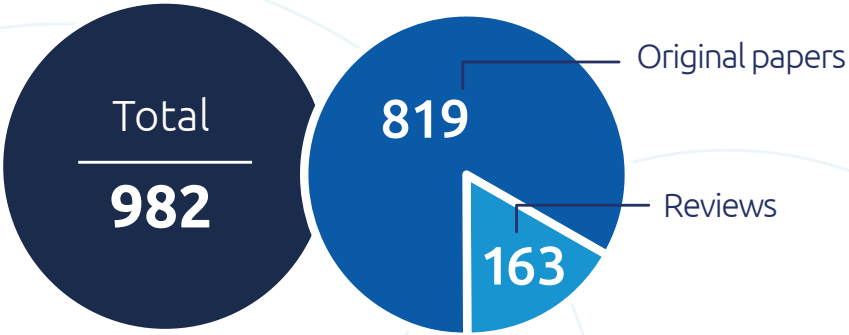
Although **the number of articles has gradually increased for the 2011-2021 period**, the relative increase of articles published in Q1 journals is noticeable.

Regarding the articles authorship, we identify those publications whose main authors (first, last or corresponding author) are affiliated to an IDIS group.



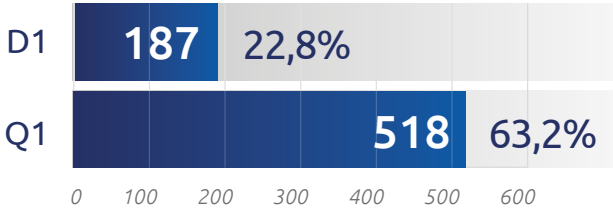


Publications in **2021**

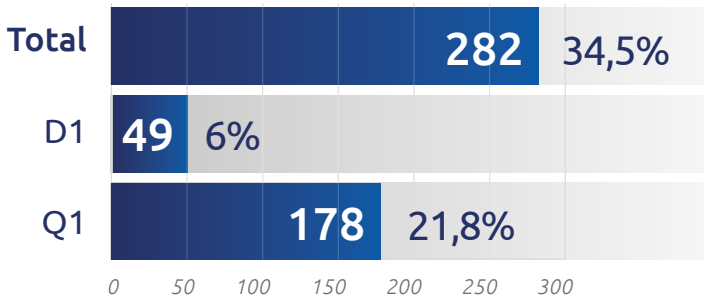




Original papers



Preferred author (original papers)



Number and % of **articles published in collaboration** between IDIS groups and groups of centres outside of Spain



IDIS
252

Articles published in collaboration **between IDIS groups.**

International
481

Articles published in collaboration **between groups of centres outside of Spain.**



Amount

46.078.575,63 €

During 2021, funding raised in competitive calls for **research projects,** the **recruitment of staff, infrastructures, agreements, contracts and provision of services, donations, clinical trials and observational studies** generated **46.078.575,63 €** which will complement the resources of the institutions that take part in IDIS.

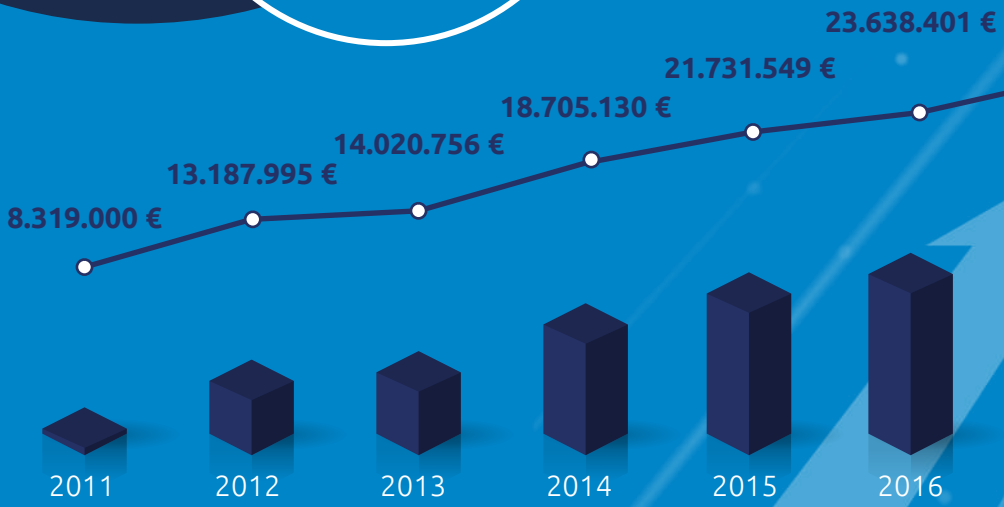
Summary of **the funding raised** in 2021

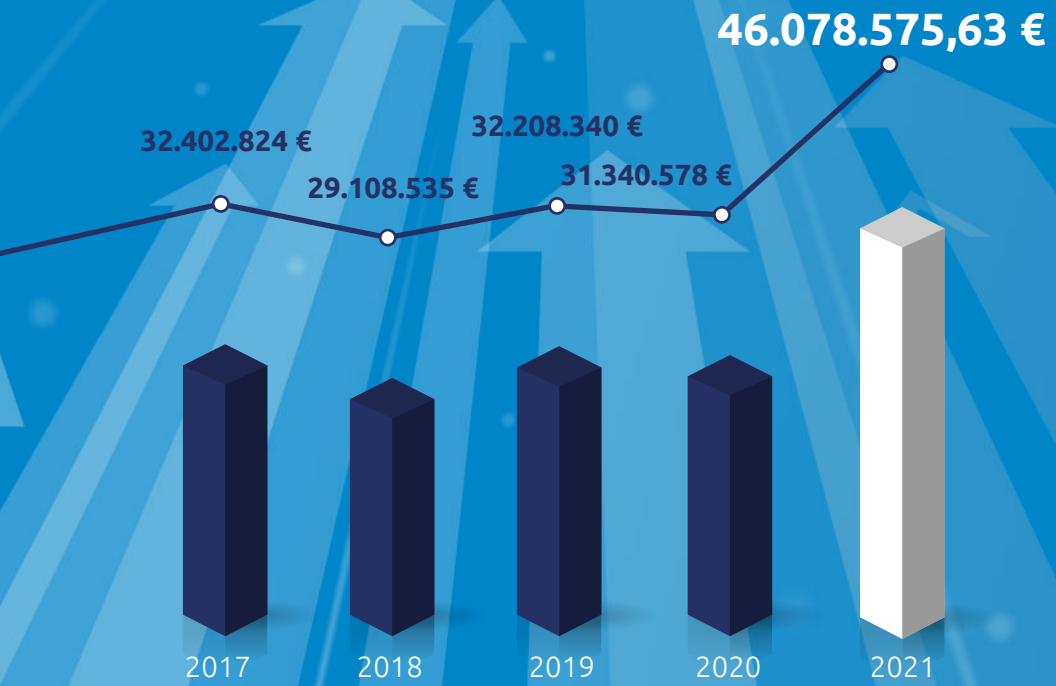
Concept	Number	Amount
Projects	128	**18.933.932,91 €**
Human resources	77	**6.050.729,20 €**
Infrastructures	1	**1.209.335,00 €**
Donations	112	**705.699,28 €**
Contracts and provision of services	512	**14.049.390,00 €**
Transfer	1	**34.900,00 €**
Studies *(Clinical Trials, Other Studies)*	220	**5.094.589,24 €**

2021

Amount raised

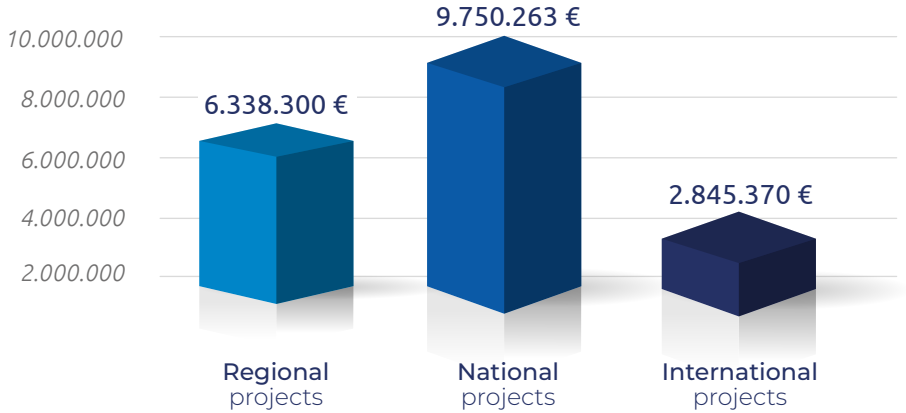
46.078.575,63 €



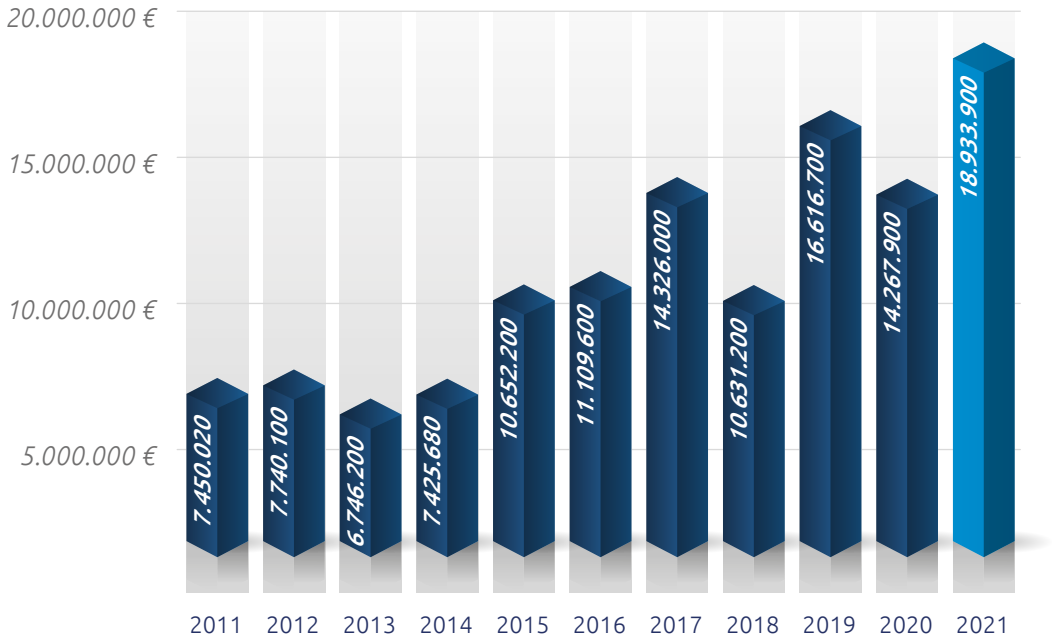

46.078.575,63 €
32.402.824 €
29.108.535 €
32.208.340 €
31.340.578 €
2017
2018
2019
2020
2021

Number and amount of **funds raised in 2021 for projects by location**



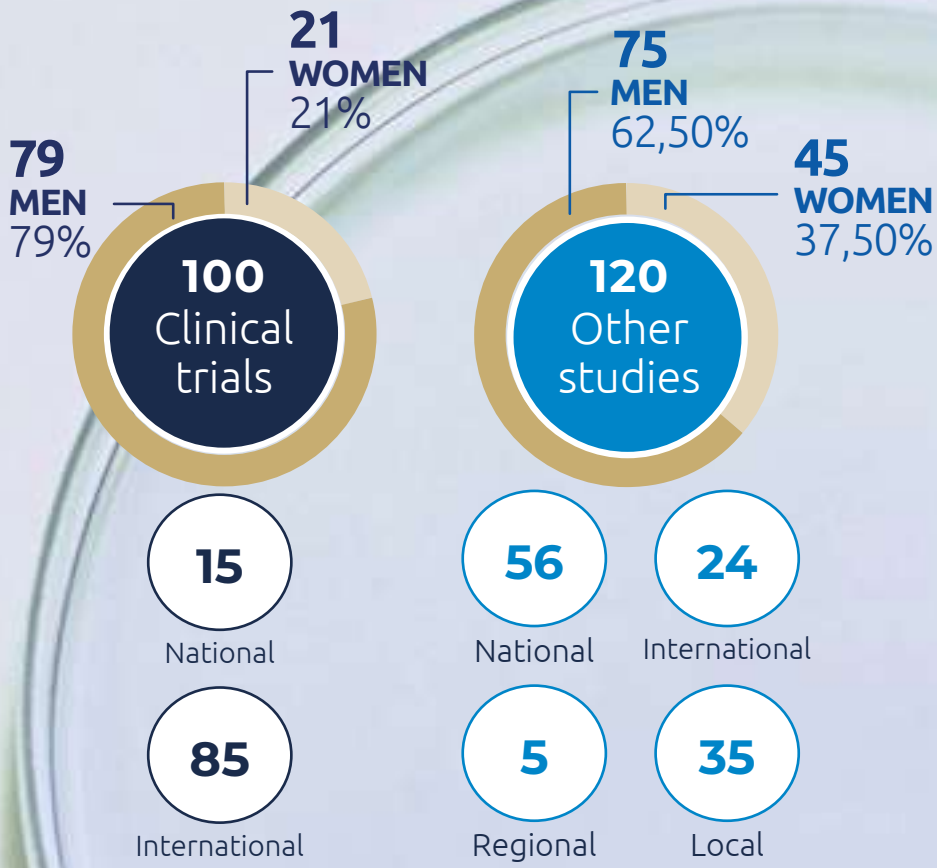


Project funding per year



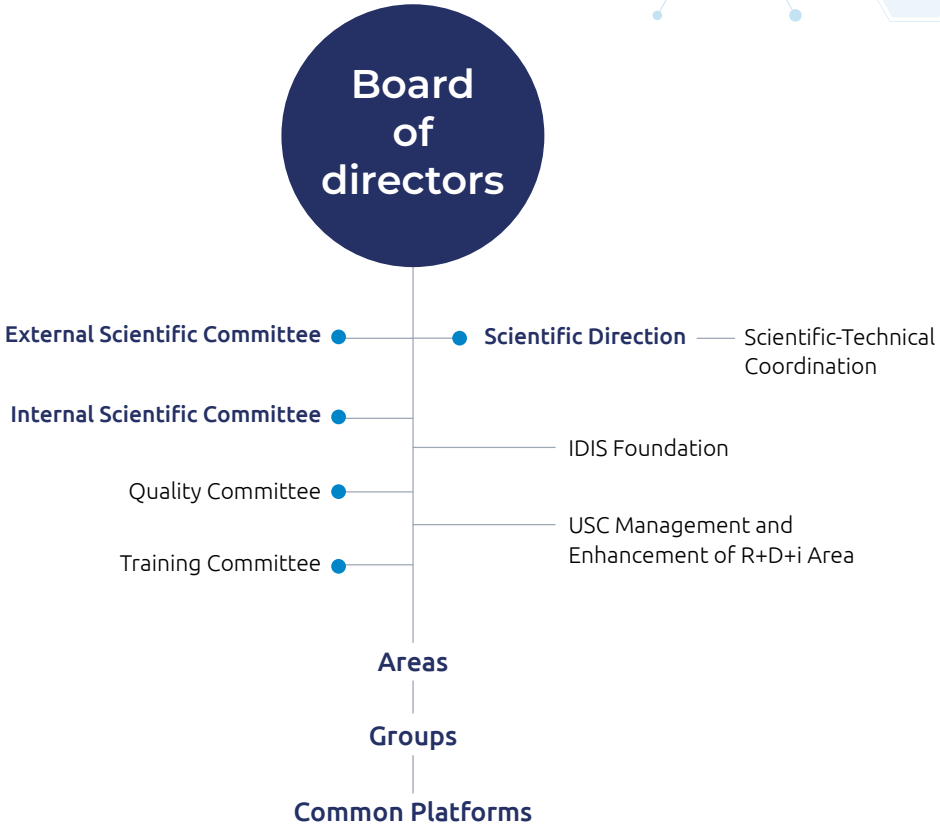
Number of **clinical trials and other studies**





39 Clinical Practice Guidelines

3 Structure


Board of directors
External Scientific Committee
Scientific Direction
Scientific-Technical Coordination
Internal Scientific Committee
IDIS Foundation
Quality Committee
USC Management and Enhancement of R+D+i Area
Training Committee
Areas
Groups
Common Platforms

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Antonio López-Díaz

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José Ramón González Juanatey
José Luis Labandeira García
Eloína Núñez Masid
Vicente Pérez Muñuzuri
Mª Luz Couce Pico (without vote)
Isabel Lista García (without vote)

External Scientific Committee

Ángeles Almeida Parra
Melchor Álvarez de Mon Soto
María del Carmen Ayuso García
Rosario Luquin Piudo
Joan Comella Carnicé

Internal Scientific Committee

President
Mª Luz Couce Pico

Secretary
José Ramón Castro Ruibal

Sofía Isabel Barbosa Sousa Gouveia
Ángel Carracedo Álvarez
Miriam Cebey López
Manuel Collado Rodríguez
José Ramón González Juanatey
Francisco Gude Sampedro
José Luis Labandeira García
Isabel Lista García
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Mabel Loza García
Paula Mariño Lorenzo
Miguel Ángel Martínez Olmos
Federico Martinón Torres
Laura Muinelo Romay
Daniel Rey Aldana
Mabel Sampedro Parada
Ana Vega Gliemmo

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Mª Mar Lale Candal
Isabel Lista García
Mª Pilar Montes Lourido
Mabel Sampedro Parada

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Manuel Collado Rodríguez

Secretary
José Ramón Castro Ruibal

Jorge Barbazán García
Sonia Eiras Penas
Ana Estany Gestal
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Cristina Fernández Pérez
Francisco Gude Sampedro
Ana Igea Fernández
María del Carmen Rivas Vázquez
Anxo Vidal Figueroa

Scientific - technical coordination

José Ramón Castro Ruibal
Yolanda Liste Martínez
Iria Louzao Pernas

A001 ONCOLOGY *Coordinator:* ***Rafael López López***

C010	**Genetics of Human Diseases**	*Fernando Domínguez Puente*
C011	**Pathology**	*José Ramón Antúnez López*
C025	**NANOBIOFAR**	*María José Alonso Fernández*
C030	**Traslational Medical Oncology**	*Rafael López López*
C032	**Molecular Imaging**	*Pablo Aguiar Fernández*
E004	**Molecular Oncology**	*José Antonio Costoya Puente*
E018	**Cell Cycle and Oncology (CiClon)**	*Anxo Vidal Figueroa*
E028	**Cell senescence, cancer and aging**	*Manuel Collado Rodríguez*
E031	**Oncologic Endocrinology**	*Román Pérez Fernández*
E032	**Preclinical Animal Models**	*Laura Sánchez Piñón*
E033	**Viruses and cancer**	*María del Carmen Rivas Vázquez*
E037	**DNA Repair and Genome Integrity**	*Miguel González Blanco*
E043	**Medical Physics and Biomathematics**	*Juan Pardo Montero*
E044	**Nano-Oncology and Translational Therapy Unit**	*María de la Fuente Freire*
E052	**Oral and maxillofacial medical-surgical pathology**	*Abel García García*
AC01	**Lymphoproliferative Disorders**	*José Luis Bello López*
AC06	**Intraocular Tumours in Adults**	*Antonio Piñeiro Ces*
AC08	**Surgical Oncology**	*Manuel Bustamante Montalvo*

A002 GENETICS AND SYSTEMS BIOLOGY

Coordinator: ***Ángel Carracedo Álvarez***

C005	**Genetics**	*Ángel Carracedo Álvarez*
C009	**Translational Research in Digestive Diseases**	*Juan Enrique Domínguez Muñoz*
C020	**Genetics, Vaccines, Infections & Pediatrics**	*Federico Martinón Torres*
C041	**Cancer Genetics and Rare Diseases**	*Ana Paula Vega Gliemmo*
E012	**Comparative Genomics of Human Parasites**	*Julio Manuel Maside Rodríguez*
E015	**Population Genetics in Biomedicine**	*Antonio Salas Ellacuriaga*
E020	**Psychiatric Genetics**	*Javier Costas Costas*
E021	**Genetics and Developmental Biology of Kidney Diseases**	*Miguel Ángel García González*
E027	**Escherichia coli**	*Jorge Blanco Álvarez*
E035	**Genetics of Gastrointestinal Tumours**	*Clara Ruiz Ponte*
E036	**Stem Cells and Human Diseases**	*Miguel Ángel Fidalgo Pérez*
E040	**Mobile Genomes and Disease**	*José Manuel Castro Tubío*
E047	**Cancer Genetics and Epidemiology Group**	*Manuela Gago Domínguez*
E054	**Epitranscriptomics and aging**	*Diana Guallar Artal*
AC20	**Translational Research of Airway Diseases**	*Francisco J. González Barcala*

A003 ENDOCRINOLOGY

Coordinator: ***Miguel A. Martínez Olmos***

C001	**Neoplasia and Endocrine Differentiation**	*Clara Álvarez Villamarín*
C006	**Molecular Endocrinology**	*Felipe Casanueva Freijo*
C008	**Obesity and Nutrition**	*Carlos Diéguez González*
C012	**Metabolic Disorders**	*María de la Luz Couce Pico*
C019	**Thyroid and Metabolic Disorders Unit (UETeM)**	*David Araújo Vilar*
C022	**Paediatric Nutrition**	*Rosaura Leis Trabazo*
C029	**Neurobesity**	*Miguel López Pérez*
C031	**Molecular Metabolism**	*Rubén Nogueiras Pozo*
E023	**Obesidomics**	*María Pardo Pérez*
E025	**Cellular Endocrinology**	*Jesús Pérez Camiña*
E026	**Endocrine Physiopathology**	*Luisa María Seoane Camino*
E039	**Diabesity**	*Sulay Tovar Carro*
E041	**Epigenomics in Endocrinology and Nutrition**	*Ana Belén Crujeiras Martínez*
AC04	**Paediatric Endocrinology**	*Manuel Pombo Arias*

A004 NEUROSCIENCES *Coordinator:* ***José Castillo Sánchez***

C004	**Neurobiology**	*Antonio Canedo Lamas*
C015	**Neurobiology of the Visual System**	*Francisco González García*
C018	**Experimental Neurology of Parkinson´s Disease**	*José Luis Labandeira García*
C026	**BIOFARMA**	*María Isabel Loza García*
C033	**Design, Synthesis and Medical Evaluation of Bioactive Compounds and New Materials**	*Antonio Mouriño Mosquera*
C034	**Physics of Polymers and Colloids**	*Victor Mosquera Tallón*
C035	**R&D in Drugs Dose Forms and Delivery Systems**	*Ángel Concheiro Nine*
C036	**Magnetism and Nanotechnology (NanoMag)**	*José Rivas Rey*
C037	**Trace Elements, Spectroscopy and Speciation**	*Pilar Bermejo Barrera*
C038	**Analytical Chemistry of Compounds of Alimentary, Environmental and Biological Interst**	*Antonia M. Carro Díaz*
C042	**Translational Stroke**	*Francisco Campos Pérez*
C043	**Neuroimaging and Biotechnology**	*Ramón Iglesias Rey*
C044	**Neuroaging**	*Tomás Sobrino Moreiras*
E014	**Prion Diseases**	*Jesús Rodríguez Requena*
E019	**Cell Stress**	*Juan Bautista Zalvide Torrente*
E029	**Cognitive Neuroscience**	*Fernando Díaz Fernández*
E049	**Gene Regulatory Control in Disease Laboratory**	*Ashwin Woodhoo*
E050	**Headaches and Craniofacial Pain**	*Rogelio Leira Muíño*
E052	**Corneal neurodegeneration**	*Mª Isabel Lema Gesto*
E053	**Circadian And Glial Biology**	*Olga Barca Mayo*
AC03	**Critical Patient**	*Julián Álvarez Escudero*
AC11	**Simulation, Life Support and Intensive Care**	*Antonio Rodríguez Núñez*
AC21	**Pharmacological Biochemistry**	*Fernando J Hermida Ameijeiras*
AC22	**Movement Disorders**	*José María Prieto González*

A005 PLATFORMS AND METHODOLOGY

Coordinator: ***Francisco Gude Sampedro***

C002	**Surgery: Complications and advances**	*Miguel Ángel Caínzos Fernández*
C013	**Epidemiology, Public Health and Evaluation of Health Services**	*Adolfo Figueiras Guzmán*
C017	**Research Methodology**	*Francisco Gude Sampedro*
C021	**Clinical Analysis**	*Santiago Rodríguez-Segade Villamarín*
C024	**Radiology**	*Miguel Souto Bayarri*
E002	**Biostatistics**	*Carmen María Cadarso Suárez*
E013	**Microbiology**	*María Luisa Pérez del Molino Bernal*
E034	**Clinical Pharmacology**	*Irene Zarra Ferro*
E046	**PARAQUASIL**	*José Blanco Méndez*
AC09	**Oral Sciences (OSRG)**	*Inmaculada Tomás Carmona*
AC10	**Healthy ageing, fragility and chronicity. Research in Primary Care**	*Juan Manuel Vázquez Lago*
AC13	**Dermatology and Craniofacial Pathology (DePaCra)**	*Pablo Ignacio Varela Centelles*

A006 INFLAMMATION

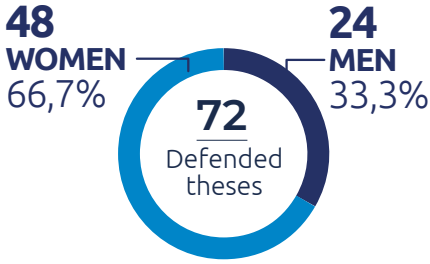
Coordinator: ***José Ramón González Juanatey***

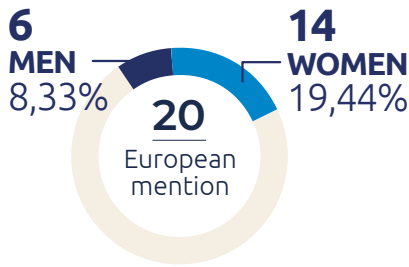
C003	**Hypertension**	*Carlos Calvo Gómez*
C014	**Rheumatology**	*Juan Jesús Gómez-Reino Carnota*
C016	**Cardiology**	*José Ramón González Juanatey*
C027	**Neuroendocrine Interactions in Rheumatic and Inflammatory Diseases (Neirid)**	*Oreste Gualillo*
C028	**Experimental and Observational Rheumatology**	*Antonio González Martínez-Pedrayo*
C039	**Biodiscovery**	*Luis Miguel Botana López*
C040	**Oral Medicine and Surgery (OMEQUI)**	*Pedro Diz Dios*
E001	**Cardiovascular Genetics**	*María José Brión Martínez*
E009	**Cellular and Molecular Cardiology**	*Francisca Lago Paz*
E030	**Platelet Proteomics**	*Ángel García Alonso*
E038	**Musculoskeletal Pathology**	*Rodolfo Gómez Bahamonde*
E045	**Translational Cardiology**	*Sonia Eiras Penas*
E048	**Molecular and Cellular Gastroenterology**	*Javier Conde Aranda*
AC05	**Pneumology**	*Luis Guillermo Valdés Cuadrado*
AC07	**Semergal**	*Sergio Cinza Sanjurjo*
AC19	**Vascular Research Group of Santiago**	*Diego Caicedo Valdés*

Recurrent training

Defended **PhD theses** per year







5 Innovation and transfer



Transfer acceleration through public funding and private investment

ITEMAS network

The Innovation Platform in Medical and Healthcare Technologies (ITEMAS) is a support structure for healthcare innovation promoted by the Carlos III Health Institute (ISCIII), whose objective is to facilitate the innovative ideas of healthcare professionals to generate value for the system, through favoring the transfer of technology, the culture of innovation and communication with the rest of society.

ITEMAS' main tool is the creation of Innovation Support Units (UAI) in hospitals and biomedical research institutes, including IDIS.

Atlantic Ket Med

Atlantic KET Med (AKM) is an Interreg funded, coordinated action aiming at establishing a Transnational Advanced Pilot Manufacturing Ecosystem for Future Biomedical Products. Featuring partners with expertise in the Key Enabling Technologies (KETs), AKM plans to provide bottom-up support to the ecosystem through direct support of SMEs as well as top-down support through educational and infrastructure policies.

IDIS joins the ecosystem and it´s the only Spanish research centre that participates in AKM.

Adopting the Public-Private Partnership Model

Two P2 ongoing initiatives where public IDIS partners share risks with private investors.

Roche-CHUS

Precision Oncology Joint Unit.

PRECISION ONCOLOGY
ROCHE|CHUS JOINT UNIT

Esteve-USC

Drug Discovery Joint Unit.

ESTEVE USC UNIVERSIDADE DE SANTIAGO DE COMPOSTELA

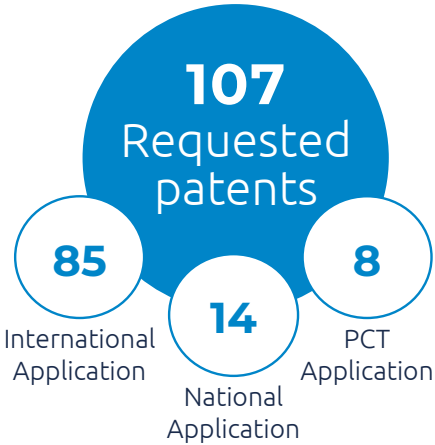
Disseminating our research

BioINCUBATECH

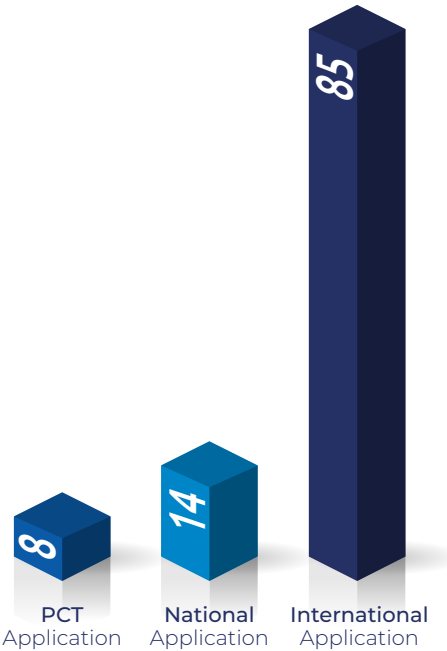
BioIncubaTech is the High Technology Incubator for the promotion of innovation and biotechnology transfer in the field of health and food technologies to micro-SMEs. BioIncubaTech belongs to "High Technology Incubators for the promotion of innovation and technology transfer to micro-SMEs" Project, aimed at modernizing the regional productive network. These Incubators are created as traction instruments aligned with the objectives of the EU 2020 and Horizon 2020 Strategy and will promote inter-regional cooperation, as well as collaboration between public and private sector agents at international level.

IDIS participated in this initiative since its inception and supported the launching of the project. Currently, 2 of our project are associated.

Intelectual property







Spin off

FlowReserve
Personalized Medicine in Cardiology

bflow

QUBIO tech

NASAS BIOTECH

DART
Detection And Radiation Technologies

Lincbiotech

Innovations. Software. trademarks & apps

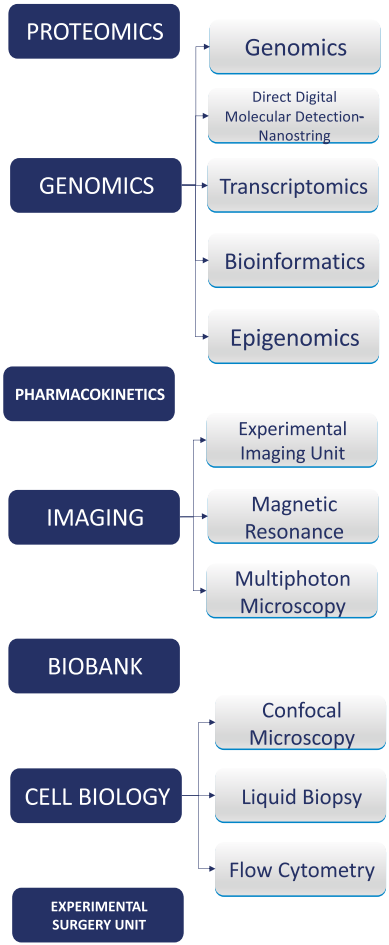
Technology portfolio:

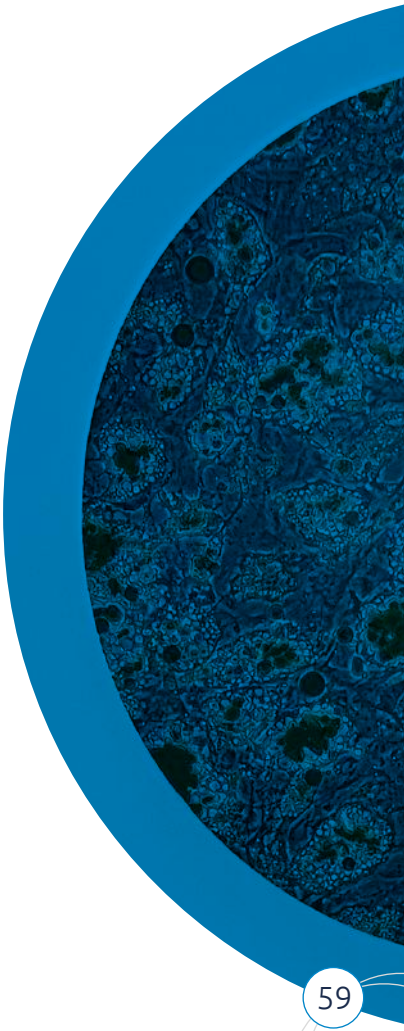
7 Trademarks

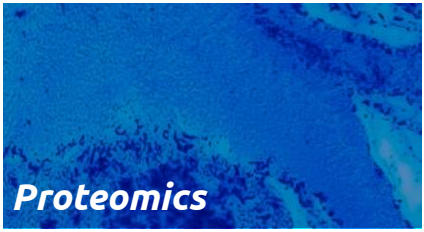
16 Intellectual property

6

Platforms


PROTEOMICS
Genomics
Direct Digital Molecular Detection- Nanostring
GENOMICS
Transcriptomics
Bioinformatics
Epigenomics
PHARMACOKINETICS
Experimental Imaging Unit
IMAGING
Magnetic Resonance
Multiphoton Microscopy
BIOBANK
Confocal Microscopy
CELL BIOLOGY
Liquid Biopsy
Flow Cytometry
EXPERIMENTAL SURGERY UNIT



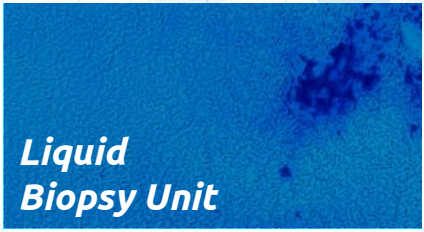


Susana Belén Bravo López

susana.belen.bravo.lopez@sergas.es

The Proteomics platform was created with the purpose of boosting research, providing support and offering researchers a comprehensive infrastructure in the field of proteomics managed by highly specialized staff.

It has cutting-edge equipment used to conduct complete proteome characterization studies, but also differential expression analysis studies.



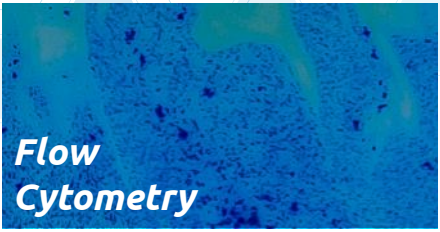
Laura Muinelo Romay

laura.muinelo.romay@sergas.es

The Liquid Biopsy Analysis Unit is a laboratory specialized in the analysis of circulating tumor cells (CTCs), circulating tumor DNA (ctDNA) and other tumor elements present in different biological fluids such as blood, saliva, pleural fluid or cerebrospinal fluid, among others. others.

The unit, created in 2012, provides services to different national and international clinical and research groups for the study of liquid biopsy.

Interest in the study of tumor material present in biological fluids has increased exponentially in the last decade, mainly because it is the least invasive and most dynamic strategy for characterizing tumors.



Flow Cytometry

Pablo Hervella Lorenzo

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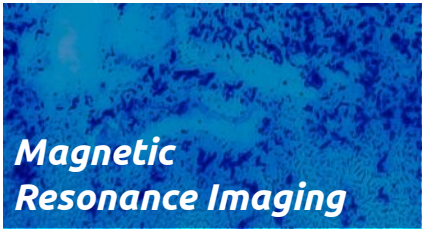
It is a technique of cell analysis that allows to measure the characteristics of light scattering and cell fluorescence when those cells pass through a light beam. The platform's main aims are:

- To advise users on the principles and applications of flow cytometry analysis and cell sorting.
- To develop, optimize and perform new analytical applications demanded by the users.
- To do cellular isolation through cell sorting.
- To quantify different soluble cytokines using multiplex tests.



Magnetic Resonance Imaging

Ramón Iglesias Rey

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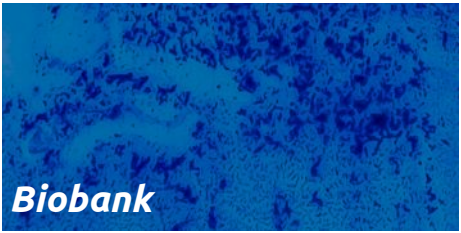
Magnetic Resonance Imaging is perhaps the most versatile neuroimaging technique that exists nowadays. The use of this platform in its different variants (anatomical, functional, spectroscopy and molecular imaging) allows for a complete, non-invasive (in vivo) and longitudinal monitoring over time of the process associated with neurovascular diseases and others such as plasticity, reorganization and functional recovery in animal models.



Lydia Fraga Fontoira (Manager)

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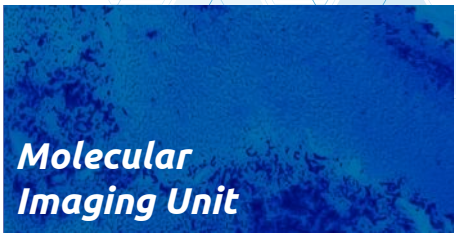
lydia.fraga.fontoira@sergas.es

The Biobank is a transversal platform to support biomedical research. These are public, non-profit establishments in which biological samples and associated clinical information are kept of high quality for use in biomedical research. Its operation is focused on managing, under safety, quality and efficiency criteria, the reception, storage and subsequent transfer of samples to requesting researchers for use in their projects, as long as they meet the required ethical and legal requirements.

The Biobanks act, therefore, as a link between sample donors, healthcare staff and the research community for the harmonization of the rights, duties and interests of each of the groups and thus facilitate the advancement of biomedical research.



Pablo Aguiar Fernández

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Our mission is to bridge the gap between in vitro biomedical research and in vivo preclinical and clinical imaging, providing novel molecular imaging biomarkers and imaging probes to gain information about physiology and pathology in vivo. We offer a core facility to provide opportunities for in vivo molecular imaging based on PET, SPECT and CT technologies.



The Animal Experimentation Unit

Francisco Campos Pérez
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The Animal Experimentation Unit provides support in biomedical research with several animal models for IDIS research groups, in strictly controlled sanitary and environmental conditions. The Animal Experimentation Unit is accredited by the Ministry of Rural Environment of the Xunta de Galicia. It has rat and mouse housing facilities, surgery rooms and specialized qualified personnel, in accordance with current regulations. It also has an Ethics Committee on Animal Experimentation. It holds the corresponding accreditation as an Authorized Body to carry out the evaluation of projects from a scientific or educational point of view.

It is responsible for advice on issues related to animal welfare, review of internal operational processes, issuance of reports and monitoring of projects. Its objectives are to promote research, and to develop and implement biomedical training, providing professionals with the necessary resources for the development of these initiatives.



Confocal Microscopy

Marta Picado Barreiro
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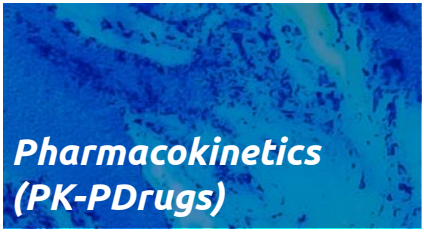
The confocal scanning microscope is well-known for its ability to perform optical sectioning: a thin plane or section within a thick turbid medium is non-invasively imaged with high resolution and contrast. Nuclear, cellular and morphologic detail is imaged in living intact tissue without having to excise physically and prepare thin sections or cultures.

The services include the infrastructure and specialised staff to perform analysis as...

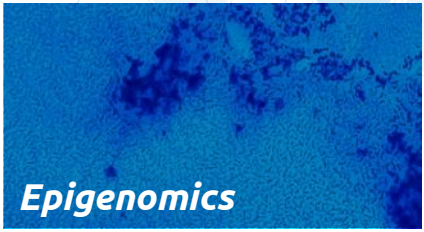
- 3D imaging reconstruction.
- Multiple labeling.
- Colocalization.
- In vivo fluorescence imaging.



Pharmacokinetics (PK-PDrugs)

Anxo Fernández Ferreiro
anxordes@gmail.com

The unit (PK-PDrugs) coordinated from the Research and Innovation Unit of the Pharmacy Service of Santiago de Compostela, is committed to the most sophisticated analytical technologies focused on the determination of drugs and metabolites in the different fields of biomedical research.



Epigenomics

Ana Belén Crujeiras / Ángel Díaz Lagares
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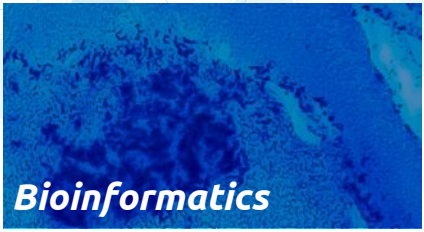
angel.diaz.lagares@sergas.es

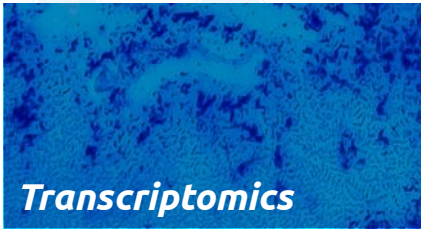
Epigenomics contributes to solving multiple biological processes related to the development of diseases and is particularly useful in the field of personalized medicine. The Epigenomics Unit, created in collaboration between the Endocrinology and Nutrition area and the Oncology area of IDIS and in consortium between FIDIS and the CIBER Physiopathology of Obesity and Nutrition (CIBERobn), aims to provide help and support to research groups and industry at a national and international level in carrying out epigenomic studies, at the level of specific genes or the epigenome.



Jorge Amigo Lechuga

jorge.amigo@usc.es

The Bioinformatics Platform is made up of a multidisciplinary team with experience in handling data obtained from omics technologies and in translational medicine. Its purpose is to provide both basic and clinical researchers with technological support and advice on the numerical analysis and processing of large volumes of data from different areas of the life sciences, applying techniques from both the fields of biology and chemistry, physics or mathematics, to obtain new knowledge.



Isabel Ferreirós Vidal

Isabel.Ferreiros.Vidal@sergas.es

This technology allows millions of fragments to be sequenced massively and in parallel, improving the speed and accuracy of sequencing while reducing its cost.

The Illumina NextSeq 2000 Sequencing System is provided with a novel super-resolution optical system that produces high-precision imaging data with higher resolution and sensitivity than more traditional Illumina systems.

This technology also provides greater sequencing flexibility, and it is scalable to different production experimental needs and adaptable to both conventional and emerging applications.

Direct Digital Molecular Detection (Nanostring)

Alberto Gómez Carballa

alberto.gomez.carballa@sergas.es

The nCounter® Assay System allows hundreds of mRNAs, miRNAs, SNVs, CNVs or proteins to be analyzed directly by direct digital molecular detection, in a single reaction in the absence of enzymes (no reverse transcription or amplification). It is a system of high sensitivity and reproducibility, with great multiplexing capacity (up to 800 genes in the same reaction). The technique not only reduces the number of necessary reactions, but also saves the amount of RNA/DNA that is used. required for the test.

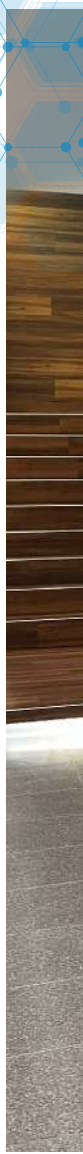
Genomics

Beatriz Sobrino Rey

beatriz.sobrino.rey@sergas.es

The application of the most modern technologies of genetic or pharmaceutical analysis require, in addition to the necessary equipment, expert knowledge for the adequate interpretation of the results obtained from them.

Before starting the process it is essential to have adequate general knowledge of the field and specific knowledge of the capacities, limitations and alternatives in each particular case.




IDIS IDIS IDIS

7 Funding



128
Projects
18.933.932,91 €

77
Human resources
6.050.729,20 €

112
Donations
705.699,28 €

512
Contracts and provision of services
14.049.390,00 €

220
Studies *(Clinical Trials, Other Studies)*
5.094.589,24 €

1
Infrastructure
1.209.335,00 €

1
Transfer
34.900,00 €

During 2021, **46.078.575,63 €** were raised in the following concepts: projects, human resources, transfer, donations, contracts, infrastructures, provision of services, transfer, agreements and studies.



Total

46.078.575,63 €

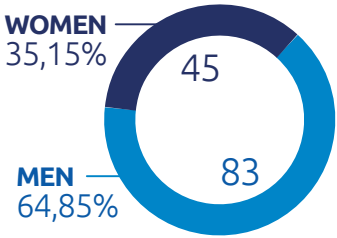


Competitive Funding

26.193.997,11 €

128 Projects

18.933.932,91 €



33

Regional projects

6.338.299,88 €

84

National projects

9.750.263,17 €

11

International projects

2.845.369,86 €

77

6.050.729,20 €
Human resources

Agency	Concept	Number	Amount
gain	*GAIN Predoctoral Grant*	23	**1.467.079 €**
	GAIN Postdoctoral Grant	15	**1.131.543 €**
	Talento Senior	1	**63.360 €**
	Principia	1	**11.000 €**
Instituto de Salud Carlos III	*PFIS / iPFIS*	1	**89.900 €**
	Río Hortega	5	**325.000 €**
	Sara Borrell	3	**285.000 €**
	Miguel Servet (I/II)	2	**617.200 €**
Gobierno de España · Ministerio de Ciencia e Innovación	*FPI*	4	**340.893 €**
	Juan de la Cierva	3	**312.235 €**
	Technical Support Staff	1	**72.505 €**
Gobierno de España · Ministerio de Universidades	*FPU*	7	**564.692 €**
idis	*IDIS Grants*	9	**638.322 €**
	Others	2	**132.000 €**

Competitive HR programs

117 WOMEN

80 MEN

8 Strategic alliances

PLATFORMS

3

RNBB. BIOBANK Network

ITEMAS ISCIII. Innovation in Medical and Health Technologies

SCREN. Spanish Clinical Research Network ISCIII

Red Biobancos
Instituto de Salud Carlos III

itemas isciii

SCReN Spanish Clinical Research Network ISCIII

CIBER

BIOMEDICAL RESEARCH NETWORKING CENTRES

6

CIBEROBN (1), Physiopathology of Obesity and Nutrition

CIBERER, Rare Diseases

CIBERESP, Public Health and Epidemiology

CIBERCV: Cardiovascular Diseases

CIBERONC: Cancer

CIBER CIBERNED: Neurodegenerative Diseases

ciberobn
ciberer
ciberesp
cibercv isciii
ciberonc isciii
ciber isciii

(1) National Coordination IDIS

8. Strategic alliances

RETICS

6

INVICTUS (1), Cerebrovascular diseases (stroke)

OFTARED, Eye Diseases

REDIAPP, Research Network on Preventive Activities and Health Promotion in Primary Care

RIER, Rheumatic Diseases

REDINREN, Kidney Diseases

TerCEL. Cell Therapy Network

NETWORKS FOR COOPERATIVE RESEARCH IN HEALTH

INTERNATIONAL NETWORK

2

EATRIS, European infrastructure for translational medicine

COST, European Cooperation in Science and Technology

OTHER NETWORKS

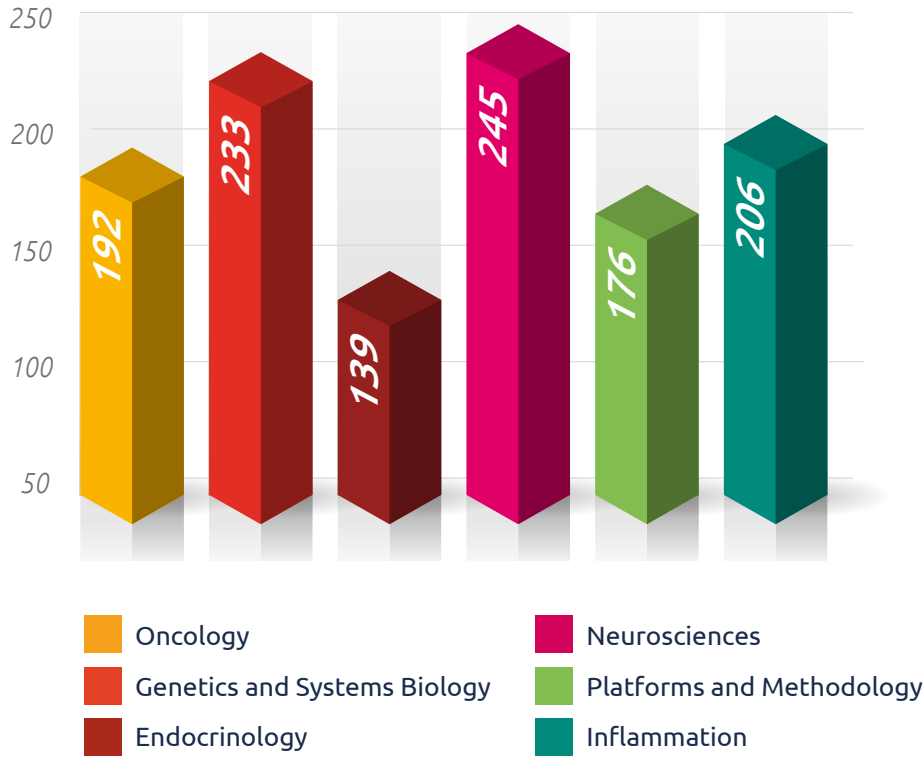
1

RECLIP (1), Spanish Pediatric Clinical Trials Network

(1) National Coordination IDIS

9 Areas

Publications in 2021



Selected Publications

Oncology

1.Dacoba, T. G. *et al.* Nano-Oncologicals: A Tortoise Trail Reaching New Avenues. *Adv. Funct. Mater.* **31**, (2021).
2.Mosquera-Orgueira, A. *et al.* Survival prediction and treatment optimization of multiple myeloma patients using machine-learning models based on clinical and gene expression data. *Leukemia* **35**, 2924–2935 (2021).
3.El Motiam, A. *et al.* SUMOylation modulates the stability and function of PI3K-p110 beta. *Cell. Mol. LIFE Sci.* **78**, 4053–4065 (2021).
4.Garcia-Varela, L. *et al.* Head-to-head comparison of (R)- C-11 verapamil and F-18 MC225 in non-human primates, tracers for measuring P-glycoprotein function. *Eur. J. Nucl. Med. Mol. Imaging* **48**, 4307–4317 (2021).
5.Garcia-Rendueles, A. R. *et al.* RET signalling provides tumorigenic mechanism and tissue specificity for AIP-related somatotrophinomas. *Oncogene* **40**, 6354–6368 (2021).

Genetics and Systems Biology

1.Alvarez, E. G. *et al.* Aberrant integration of Hepatitis B virus DNA promotes major restructuring of human hepatocellular carcinoma genome architecture. *Nat. Commun.* **12**, (2021).
2.Gomez-Carballa, A., Pardo-Seco, J., Bello, X., Martinon-Torres, F. & Salas, A. Superspreading in the emergence of COVID-19 variants. *Trends Genet.* **37**, 1069–1080 (2021).
3.Cordido, A. *et al.* TWEAK Signaling Pathway Blockade Slows Cyst Growth and Disease Progression in Autosomal Dominant Polycystic Kidney Disease. *J. Am. Soc. Nephrol.* **32**, 1913–1932 (2021).
4.de Coo, A. *et al.* Genome-wide association study of stage III/IV grade C periodontitis (former aggressive periodontitis) in a Spanish population. *J. Clin. Periodontol.* **48**, 896–906 (2021).
5.Broset, E. *et al.* BCG vaccination improves DTaP immune responses in mice and is associated with lower pertussis incidence in ecological epidemiological studies. *Ebiomedicine* **65**, (2021).

Endocrinology

1.Al-Massadi, O. *et al.* Multifaceted actions of melanin-concentrating hormone on mammalian energy homeostasis. *Nat. Rev. Endocrinol.* **17**, 745–755 (2021).
2.Fondevila, M. F. *et al.* The L-alpha-Lysophosphatidylinositol/G Protein-Coupled Receptor 55 System Induces the Development of Nonalcoholic Steatosis and Steatohepatitis. *HEPATOLOGY* **73**, 606–624 (2021).
3.Urisarri, A. *et al.* BMP8 and activated brown adipose tissue in human newborns. *Nat. Commun.* **12**, (2021).
4.Santos-Zas, I. *et al.* Cytotoxic CD8(+) T cells promote granzyme B-dependent adverse post-ischemic cardiac remodeling. *Nat. Commun.* **12**, (2021).
5.Cid-Diaz, T. *et al.* Obestatin signalling counteracts glucocorticoid-induced skeletal muscle atrophy via NEDD4/KLF15 axis. *J. Cachexia Sarcopenia Muscle* **12**, 493–505 (2021).

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1.Valenzuela, R. et al. An ACE2/Mas-related receptor MrgE axis in dopaminergic neuron mitochondria. Redox Biol. 46, (2021).
2.Garcia-Gonzalez, C. A. et al. Aerogels in drug delivery: From design to application. J. Control. Release 332, 40–63 (2021).
3.Prego-Dominguez, J., Skillgate, E., Orsini, N. & Takkouche, B. Social factors and pain worsening: a retrospective cohort study. Br. J. Anaesth. 127, 289–295 (2021).
4.Tojo, C., Buceta, D. & Lopez-Quintela, M. A. Insight into the surface composition of bimetallic nanocatalysts obtained from microemulsions. J. Colloid Interface Sci. 602, 367–375 (2021).
5.Campos-Magdaleno, M. et al. Changes in visual memory in mild cognitive impairment: a longitudinal study with CANTAB. Psychol. Med. 51, 2465–2475 (2021).

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1.Candal-Pedreira, C., Ruano-Ravina, A., Provencio, M., Fernandez-Villar, A. & Perez-Rios, M. Lung Cancer Screening Quality Criteria A Population Perspective. *Chest* **160**, E329–E331 (2021).
2.Gude-Sampedro, F. *et al.* Development and validation of a prognostic model based on comorbidities to predict COVID-19 severity: a population-based study. *Int. J. Epidemiol.* **50**, 64–74 (2021).
3.Vidal, C. *et al.* Anaphylaxis to Vespa velutina nigrithorax: Pattern of Sensitization for an Emerging Problem in Western Countries. *J. Investig. Allergol. Clin. Immunol.* **31**, 228–235 (2021).
4.Varela-Centelles, P. I. *et al.* Impact of the Presenting Symptom on Time Intervals and Diagnostic Routes of Patients with Symptomatic Oral Cancer. *Cancers (Basel).* **13**, (2021).
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4.Barrachina, M. N. *et al.* Phosphoproteomic Analysis of Platelets in Severe Obesity Uncovers Platelet Reactivity and Signaling Pathways Alterations. *Arterioscler. Thromb. Vasc. Biol.* **41**, 478–490 (2021).
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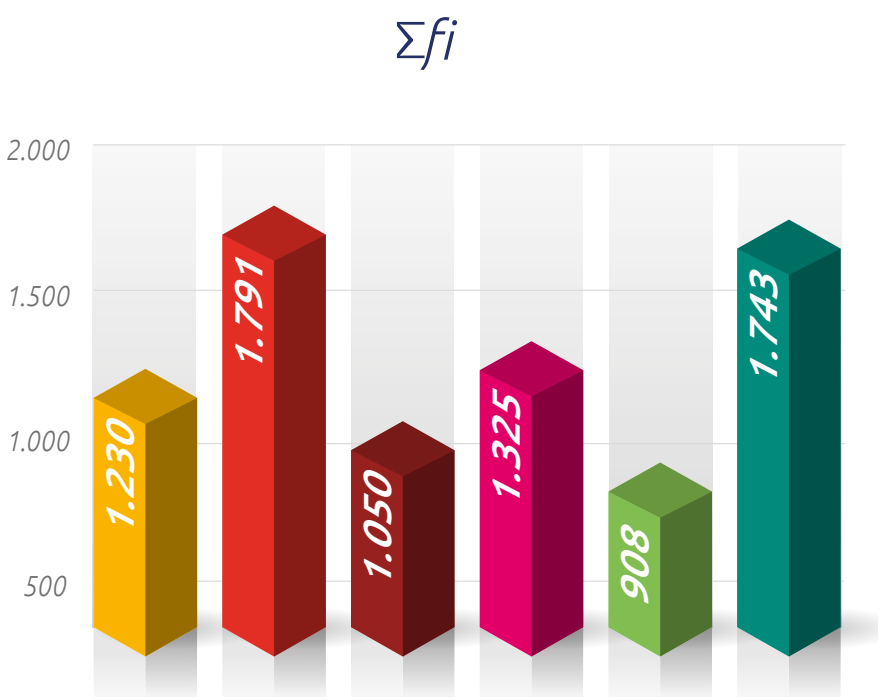
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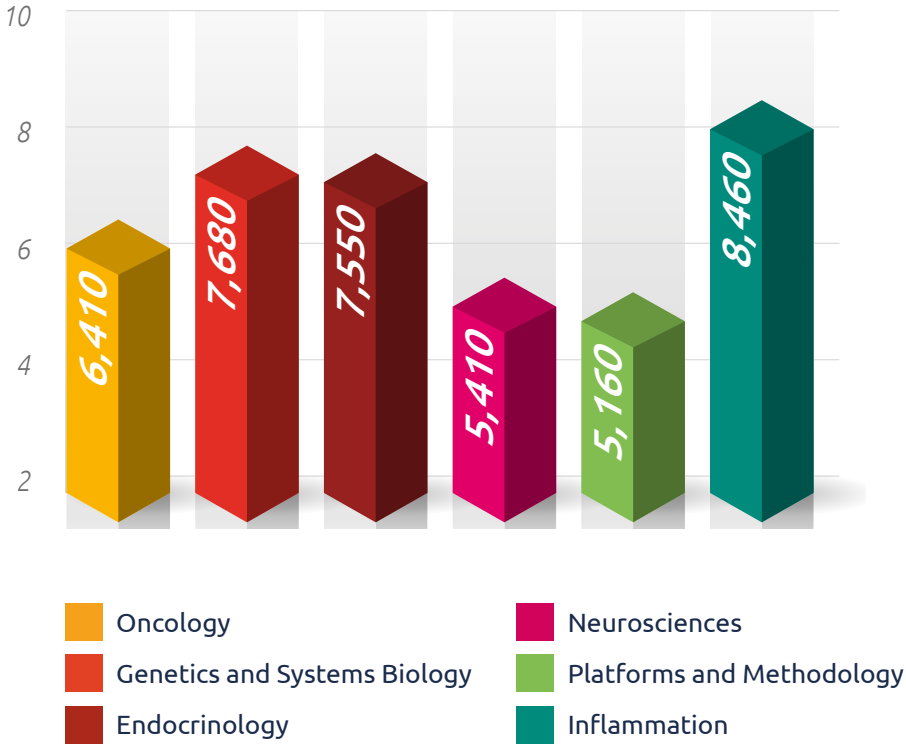
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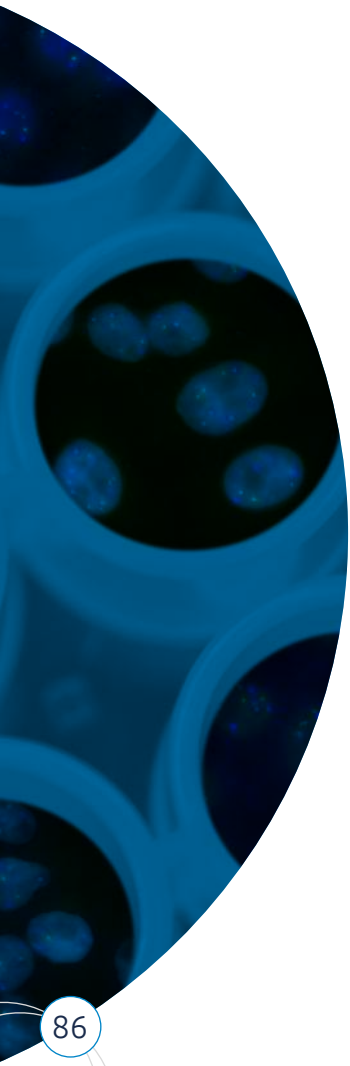
Oncology
Genetics and Systems Biology
Endocrinology
Neurosciences
Platforms and Methodology
Inflammation



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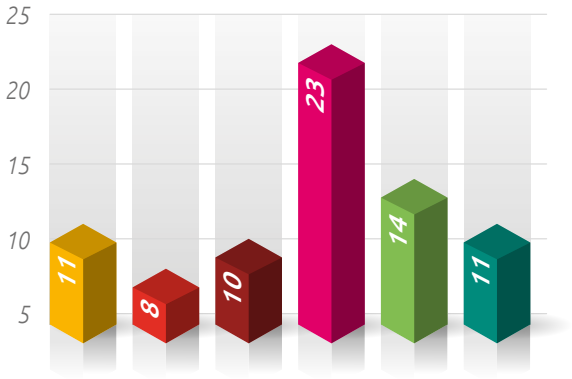

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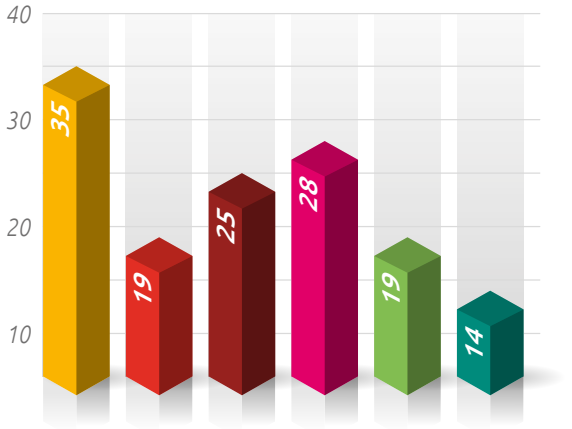

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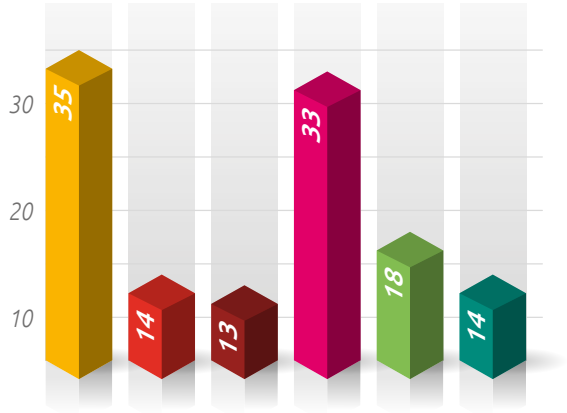
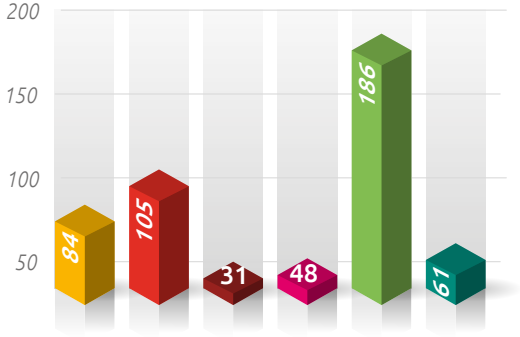


- Oncology
- Genetics and Systems Biology
- Endocrinology
- Neurosciences
- Platforms and Methodology
- Inflammation

Contracts



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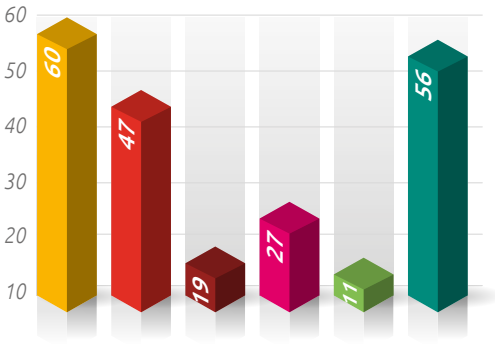

10 Communication

IDIS Website

47.330
Web visits

Newspapers

56
IDIS in the news

7
Press releases

Posts on Social Networks (news)

39
Twitter

20
Instagram

18
LinkedIn

11

Balance

	ACTIVO	NOTAS	31/12/2021	31/12/2020
A)	**ACTIVO NO CORRIENTE**		**13.207.467,87 €**	**10.338.646,93 €**
I.	**Inmovilizado intangible**	**5**	**46.780,14 €**	**27.680,57 €**
3.	Patentes, licencias, marcas y similares		0,00 €	0,00 €
5.	Aplicaciones informáticas		46.780,14 €	27.680,57 €
III.	**Inmovilizado material**	**6**	**2.630.402,95 €**	**2.207.702,11 €**
1.	Terrenos y construcciones		1.466.411,25 €	1.236.939,52 €
2.	Instalaciones técnicas y otro inmovilizado material		1.163.991,70 €	956.219,10 €
3.	Inmovilizado en cursos y anticipos		0,00 €	14.543,49 €
VI.	**Inversiones financieras a largo plazo**	**8.1**	**10.530.284,78 €**	**8.103.264,25 €**
1.	Instrumentos de Patrimonio		10.529.384,78 €	8.102.364,25 €
3.	Valores representativos de deuda		0,00 €	0,00 €
5.	Otros activos financieros		900,00 €	900,00 €
B)	**ACTIVO CORRIENTE**		**33.584.535,65 €**	**32.658.416,34 €**
I.	**Usuarios y otros deudores de la actividad propia**	**9**	**1.658.639,70 €**	**1.504.713,65 €**
II.	**Existencias**		**0,00 €**	**110.317,40 €**
6.	Anticipos a proveedores		0,00 €	110.317,40 €
III.	**Deudores comerciales y otras cuentas a cobrar**	**9**	**12.039.778,28 €**	**12.239.829,59 €**
3.	Deudores varios		0,00 €	0,00 €
4.	Personal		0,00 €	0,00 €
5.	Activos por impuesto corriente		0,00 €	0,00 €
6.	Otros créditos con las Administraciones Pública		12.039.778,28 €	12.239.829,59 €
V.	**Inversiones financieras a corto plazo**	**8.1**	**0,00 €**	**1.500.664,59 €**
2.	Créditos a entidades		0,00 €	0,00 €
3.	Valores representativos de deuda		0,00 €	0,00 €
5.	Otros activos financieros		0,00 €	1.500.664,59 €
VI.	**Peridiodificaciones a corto plazo**		**31.362,41 €**	**19.282,16 €**
VII	**Efectivo y otros activos líquidos equivalentes**	**11**	**19.854.755,26 €**	**17.283.608,95 €**
1.	Tesorería		19.854.755,26 €	17.283.608,95 €
2.	Otros activos líquidos equivalentes		0,00 €	0,00 €
	TOTAL ACTIVO (A + B)		**46.792.003,52 €**	**42.997.063,27 €**

	PATRIMONIO NETO Y PASIVO		31/12/2021	31/12/2020
A)	**PATRIMONIO NETO**		**8.479.330,57 €**	**8.344.342,19 €**
A-1)	**Fondos propios**	**12**	**6.557.546,61 €**	**6.363.610,89 €**
I.	**Dotación fundacional / Fondo social**		**153.952,45 €**	**153.952,45 €**
	Dotación fundacional / Fondo social		153.952,45 €	153.952,45 €
II.	**Reservas**		**6.209.658,44 €**	**6.057.495,74 €**
	Otras reservas		6.209.658,44 €	6.057.495,74 €
IV.	**Excedente del ejercicio**		**193.935,72 €**	**152.162,70 €**
A-2)	**Ajustes por cambio de valor**		**369.932,10 €**	**316.208,02 €**
	Activos financieros disponibles para la venta		369.932,10 €	316.208,02 €
A-3)	**Subvenciones, donaciones y legados recibidos**	**17**	**1.551.851,86 €**	**1.664.523,28 €**
I.	**Subvenciones**		215.551,99 €	235.652,54 €
II.	**Donaciones y legados**		1.336.299,87 €	1.428.870,74 €
B)	**PASIVO NO CORRIENTE**		**1.058.377,96 €**	**988.915,61 €**
I.	**Provisiones a largo plazo**	**15**	**1.058.377,96 €**	**988.915,61 €**
1.	Obligaciones por prestaciones a largo plazo al personal		1.058.377,96 €	988.915,61 €
II.	**Deudas a largo plazo**	**8.2**	**0,00 €**	**0,00 €**
5.	Otros pasivos financieros		0,00 €	0,00 €
C)	**PASIVO CORRIENTE**		**37.254.294,99 €**	**33.663.805,47 €**
I.	**Provisiones a corto plazo**	**15**	**11.718.542,64 €**	**10.462.527,30 €**
II.	**Deudas a corto plazo**	**8.2**	**19.586.970,36 €**	**17.494.681,67 €**
3.	Acreedores por arrendamiento financiero		0,00 €	0,00 €
5.	Otras deudas a corto plazo		19.586.970,36 €	17.494.681,67 €
IV.	**Beneficiarios - Acreedores**	**10**	**0,00 €**	**0,00 €**
V.	**Acreedores comerciales y otras cuentas a pagar**	**10**	**5.948.781,99 €**	**5.706.596,50 €**
1.	Proveedores		78.928,72 €	136.717,67 €
3.	Acreedores varios		40.664,10 €	80.146,48 €
4.	Personal (remuneraciones pendientes de pago		186.504,31 €	1.156,02 €
6.	Otras deudas con las Administraciones Públicas		5.642.684,86 €	5.488.576,33 €
7.	Anticipos recibidos por pedidos		0,00 €	0,00 €
	TOTAL PATRIMONIO NETO Y PASIVO (A + B + C)		**46.792.003,52 €**	**42.997.063,27 €**





ANNUAL **REPORT 2021**



INSTITUTO DE INVESTIGACIÓN SANITARIA
SANTIAGO DE COMPOSTELA

Annual Report 2021

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XUNTA DE GALICIA | CONSELLERÍA DE SANIDADE

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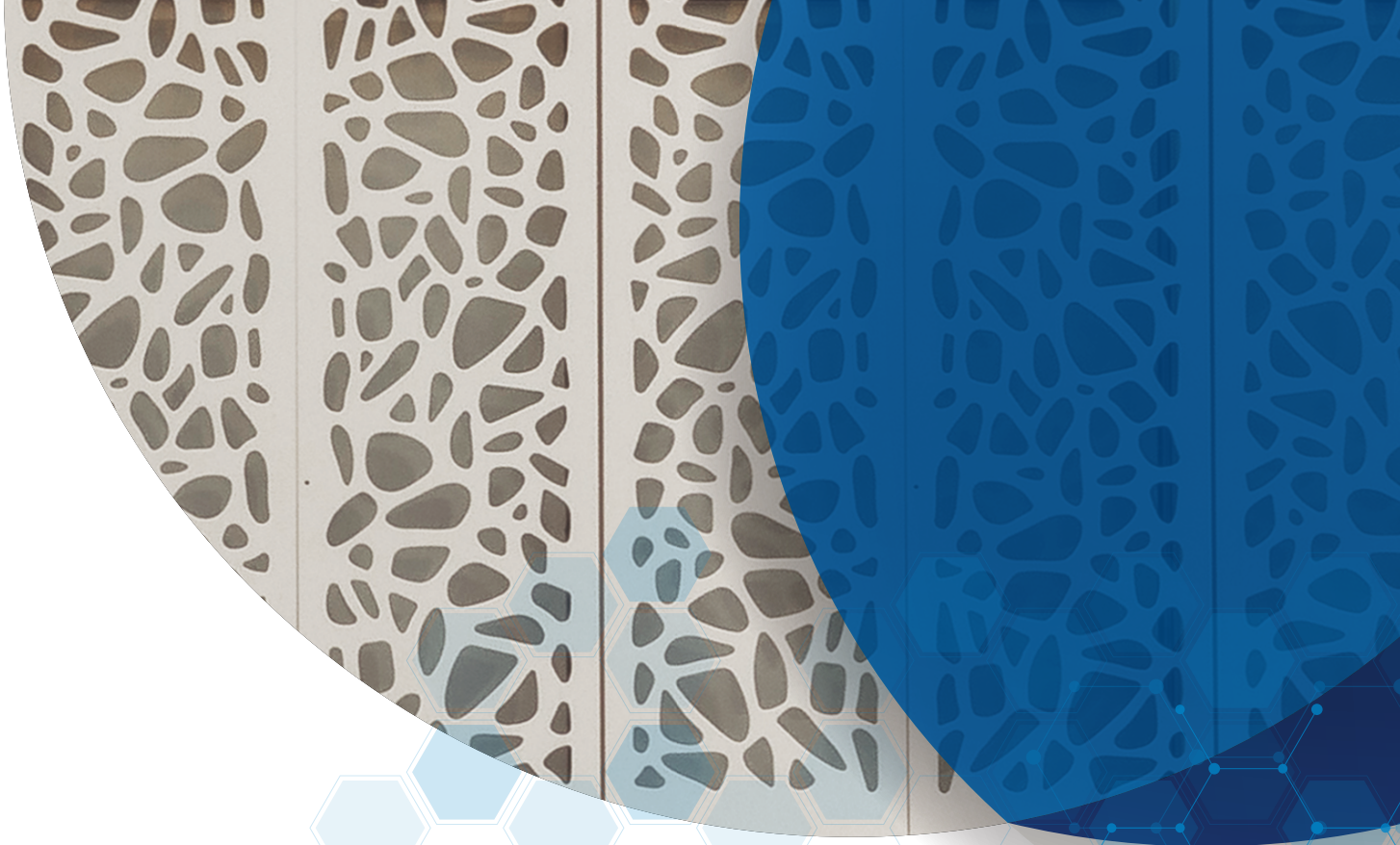

ANNEX

ANNUAL REPORT 2021

HEALTH RESEARCH INSTITUTE
SANTIAGO DE COMPOSTELA



ORIGINAL PAPERS

Abad-Coronel, C., Balladares, A. O., Fajardo, J. I., & Biedma, B. J. M. (2021). Resistance to Fracture of Lithium Disilicate Feldspathic Restorations Manufactured Using a CAD/CAM System and Crystallized with Different Thermal Units and Programs [Article]. *Materials*, *14*(12), Article 3215. https://doi.org/10.3390/ma14123215

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de la Arrixaca; Catholic University of the Sacred Heart; IRCCS Policlinico Gemelli; League of European Research Universities - LERU; Ruprecht Karls University Heidelberg; Complexo Hospitalario Universitario de Santiago de Compostela]. *Frontiers in Medicine*, *8*, Article 728102. https://doi.org/10.3389/fmed.2021.728102

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Aguirre, G., Taboada, P., & Billon, L. (2021). Spontaneously Self-Assembled Microgel Film as Co-Delivery System for Skincare Applications [Article Chemistry (INC); Universite de Pau et des Pays de l'Adour; Universite de Pau et des Pays de l'Adour; University of Santiago De Compostela]. *Pharmaceutics*, *13*(9), Article 1422. https://doi.org/10.3390/pharmaceutics13091422

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Calcutta; Homi Bhabha National Institute; Saha Institute of Nuclear Physics; Ehime University; Justus Liebig University Giessen; University of Hong Kong; Queens University - Canada; Chinese University of Hong Kong; Chinese University of Hong Kong; Chinese University of Hong Kong; Tulane University; National Cheng Kung University; University of California System; University of California Berkeley; University of California System; University of California Berkeley; National University of Singapore; Southeast University - China; University of East Anglia; Centre National de la Recherche Scientifique (CNRS); CNRS - National Institute for Biology (INSB); Institut National de la Sante et de la Recherche Me icale (Inserm); League of European Research Universities - LERU; UDICE-French Research Universities; Universites de Strasbourg Etablissements Associes; Universite de Strasbourg; Department of Biotechnology (DBT) India; Translational Health Science & Technology Institute (THSTI); Banaras Hindu University (BHU); University of Washington; University of Washington Seattle; Department of Biotechnology (DBT) India; Institute of Life Sciences India (ILS); University of London; University College London; National Cheng Kung University; Academia Sinica - Taiwan; University of Southern California; University of Minnesota System; University of Minnesota Twin Cities; Qingdao University; Army Medical University; Army Medical University; Army Medical University; Changhua Christian Hospital; Wuhan Sports University; Nankai University; Wuhan University; Duke University; Chinese Academy of Sciences; Institute of Modern Physics, CAS; University of Sydney; Pennsylvania Commonwealth System of Higher Education (PCSHE); Temple University; Pennsylvania Commonwealth System of Higher Education (PCSHE); Temple University; Chinese Academy of Medical Sciences - Peking Union Medical College; Institute of Dermatology - CAMS; Peking Union Medical College; Chinese Academy of Sciences; Tsinghua University; Peking University; CancerCare Manitoba Foundation; Mackay Memorial Hospital; Sun Yat Sen University; Wuhan University; Zhejiang University; University of Texas System; University of Texas Southwestern Medical Center Dallas; Purdue University System; Purdue University; Purdue University West Lafayette Campus; Wuhan University; Capital Medical University; Northwestern University; Feinberg School of Medicine; Northwestern University; Yeshiva University; Albert Einstein College of Medicine; University of Texas System; University of Texas Health Science Center Houston; National Institutes of Health (NIH) - USA; NIH National Institute of Neurological Disorders & Stroke (NINDS); East China Normal University; State University System of Florida; University of Florida; Zhejiang University; National Cancer Center - Korea (NCC); National University of Singapore; Lomonosov Moscow State University; University of Pennsylvania; National Cheng Kung University; Sun Yat Sen University; Institut National de la Sante et de la Recherche Medicale (Inserm); Universite de Rennes 1; UNICANCER; Centre Eugene Marquis; University of North Carolina; University of North Carolina Charlotte; University of Hong Kong; University of Milano-Bicocca; Consiglio Nazionale delle Ricerche (CNR); University of Oslo; University of Oslo; University of Oslo; Universidad de Chile; Taipei Veterans General Hospital; National Institutes of Health (NIH) - USA; NIH National Institute of Allergy & Infectious Diseases (NIAID); Consiglio Nazionale delle Ricerche (CNR); Istituto di Farmacologia Traslazionale (IFT-CNR); IRCCS Santa Lucia; Kyungpook National University; Wonkwang University; Cornell University; Cornell University; Council of Scientific & Industrial Research (CSIR) - India; CSIR - Indian Institute of Chemical Biology (IICB); British Columbia Cancer Agency; Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; National University of Singapore; National University of Singapore; National University of Singapore; National University of Singapore; Agency for Science Technology & Research (ASTAR); Konkuk University; Konkuk University Medical Center; Max Planck Society; University of Ulsan; Asan Medical Center; Catholic University of Korea; Seoul St. Mary's Hospital; Cancer Research UK; Royal Marsden NHS Foundation Trust; University of London; Institute of Cancer Research - UK; Polish Academy of Sciences; Nencki Institute of Experimental Biology of the Polish Academy of Sciences; Universidad de Chile; University of Cologne; University of Cologne; University of Cologne; Sapienza University Rome; University of

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New York (SUNY) Buffalo; Norwegian University of Science & Technology (NTNU); Central University of Tamil Nadu; UK Research & Innovation (UKRI); Biotechnology and Biological Sciences Research Council (BBSRC); Babraham Institute; University of Genoa; University of Genoa; McGill University; University of Pavia; University of Pisa; Istituto Superiore di Sanita (ISS); University of Texas System; University of Texas Medical Branch Galveston; University of Nebraska System; University of Nebraska Lincoln; Icahn School of Medicine at Mount Sinai; Institute of Science & Technology - Austria; CIBER - Centro de Investigacion Biomedica en Red; CIBEROBN; University of Navarra; CIBERNED; Universidad de Extremadura; Kyushu University; Tokyo Institute of Technology; Tohoku University; Goethe University Frankfurt; Monash University; Monash University; Peter Maccallum Cancer Center; Peter Maccallum Cancer Center; University of Melbourne; Juntendo University; University of Chicago; Fahrenheit Universities; University of Gdansk; League of European Research Universities - LERU; University of Oxford; Universidad de Castilla-La Mancha; City of Hope; Beckman Research Institute of City of Hope; Cornell University; Yale University; UDICE-French Research Universities; Universite de Paris; Centre National de la Recherche Scientifique (CNRS); CNRS - National Institute for Biology (INSB); League of European Research Universities - LERU; UDICE-French Research Universities; Sorbonne Universite; Universite de Paris; League of European Research Universities - LERU; University of Edinburgh; University of Texas System; UTMD Anderson Cancer Center; Air Force Military Medical University; Chinese Academy of Sciences; Institute of Zoology, CAS; Harbin Institute of Technology; South China University of Technology; Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; Chinese Academy of Sciences; Shanghai Institutes for Biological Sciences, CAS; University of Buenos Aires; Consejo Nacional de Investigaciones Cientificas y Tecnicas (CONICET); University of Buenos Aires; Consejo Nacional de Investigaciones Cientificas y Tecnicas (CONICET); University of Buenos Aires; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Centro Nacional de Biotecnologia (CNB); Autonomous University of Madrid; Universidad Autonoma de Nuevo Leon; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC-USAL - Instituto de Biologia Funcional y Genomica (IBFG); CS C-USAL - Instituto de Biologia Molecular y Celular del Cancer de Salamanca (IBMCC); University of Salamanca; Hospital Clinico Universitario Virgen de la Arrixaca; University of Murcia; CIBER - Centro de Investigacion Biomedica en Red; CIBEREHD; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Instituto de Investigaciones Biomedicas de Barcelona (IIBB); League of European Research Universities - LERU; University of Barcelona; Hospital Clinic de Barcelona; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Instituto Cajal (IC); Instituto de Salud Carlos III; CIBERNED; Instituto de Salud Carlos III; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Centro de Biologia Molecular Severo Ochoa (CBM); Sapienza University Rome; Tulane University; University of Bonn; Zhejiang University; League of European Research Universities - LERU; University of Milan; Centre National de la Recherche Scientifique (CNRS); League of European Research Universities - LERU; UDICE-French Research Universities; Universites de Strasbourg Etablissements Associes; Universite de Strasbourg; League of European Research Universities - LERU; University of Freiburg; Columbia University; Heinrich Heine University Dusseldorf; Virginia Commonwealth University; Kerman University of Medical Sciences; University of Turin; League of European Research Universities - LERU; KU Leuven; University of Sussex; Sapienza University Rome; Democritus University of Thrace; University of Manitoba; University of Manitoba; University of Lausanne; University of Ferrara; Universidade de Coimbra; Universidade de Coimbra; University of Toronto; UDICE-French Research Universities; Universite Cote d'Azur; University of California System; University of California Davis; Institut National de la Sante et de la Recherche Medicale (Inserm); Universite de Toulouse; Universite Toulouse III - Paul Sabatier; Centre National de la Recherche

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Research Universities - LERU; Universite Paris Saclay; University of Duisburg Essen; Tianjin Medical University; Universite de Toulouse; Shandong University; University of London; University College London; Shiraz University of Medical Science; National Medicines Institute Lekow (NIL); University of Washington; University of Washington Seattle; University of Washington; University of Washington Seattle; Tehran University of Medical Sciences; Wayne State University; Indian Institute of Technology System (IIT System); Indian Institute of Technology (IIT) - Jodhpur; Amrita Vishwa Vidyapeetham; Amrita Vishwa Vidyapeetham Amritapuri; University of Nebraska System; University of Nebraska Medical Center; Universita della Campania Vanvitelli; Universita della Campania Vanvitelli; Universite de Toulouse; Universite Toulouse III - Paul Sabatier; Sapporo Medical University; University of California System; University of California San Diego; Children's Hospital Colorado; University of Colorado System; University of Colorado Anschutz Medical Campus; Health Sciences University of Hokkaido; Nagasaki University; Tokyo Medical University; University of Tokyo; Aarhus University; Kerman University of Medical Sciences; University of Kaiserslautern; Department of Biotechnology (DBT) India; International Center for Genetic Engineering & Biotechnology (ICGEB); International Center for Genetic Engineering & Biotechnology (ICGEB), New Delhi; Washington University (WUSTL); Universita della Svizzera Italiana; Ecole Polytechnique Federale de Lausanne; Aarhus University; Centre National de la Recherche Scientifique (CNRS); CNRS - National Institute for Biology (INSB); UDICE-French Research Universities; Universite Claude Bernard Lyon 1; CHU Lyon; Ecole Normale Superieure de Lyon (ENS de LYON); Universite Jean Monnet; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Centro de Investigaciones Biologicas (CIB); League of European Research Universities - LERU; University of Copenhagen; Bispebjerg Hospital; IRCCS Santa Lucia; IRCCS Aviano (CRO); University of Virginia; Royal Cornwall Hospital; University of Exeter; University of Plymouth; IRCCS Istituto Neurologico Besta; Universidade de Coimbra; Universidad Nacional Autonoma de Mexico; Sapienza University Rome; Ifremer; Swansea University; Institut National de la Sante et de la Recherche Medicale (Inserm); Juntendo University; University of British Columbia; Kindai University (Kinki University); Saitama University; Pontificia Universidad Catolica de Chile; University of Ferrara; Cornell University; Universidade Federal do Ceara; Texas Tech University System; Texas Tech University; Texas Tech Univers ty System; Texas Tech University; University of Munster; Indian Council of Medical Research (ICMR); ICMR - National AIDS Research Institute (NARI); New York University; Children's Hospital Colorado; University of Colorado System; University of Colorado Anschutz Medical Campus; League of European Research Universities - LERU; UDICE-French Research Universities; Universites de Strasbourg Etablissements Associes; Universite de Strasbourg; League of European Research Universities - LERU; UDICE-French Research Universities; Universites de Strasbourg Etablissements Associes; Universite de Strasbourg; CIBERNED; ICREA; Pompeu Fabra University; Centro Nacional de Investigaciones Cardiovasculares (CNIC); League of European Research Universities - LERU; University of Zurich; University of London; King's College London; Old Dominion University; Royal College of Surgeons - Ireland; University of Prince Edward Island; Roche Holding; Genentech; University of Helsinki; Washington University (WUSTL); Washington University (WUSTL); University of Rzeszow; Baqiyatallah University of Medical Sciences (BMSU); Cornell University; Rutgers State University New Brunswick; Rutgers State University Medical Center; University of Lausanne; Centre Hospitalier Universitaire Vaudois (CHUV); Kyoto University; University of California System; University of California San Francisco; The J David Gladstone Institutes; Tokyo Institute of Technology; State University System of Florida; University of South Florida; Sapienza University Rome; Central South University; Cancer Research UK; CRUK Cambridge Institute; League of European Research Universities - LERU; University of Cambridge; Ben Gurion University; Soroka Medical Center; Niigata University; Nelson Mandela University; Ecole Polytechnique Federale de Lausanne; Ecole Polytechnique Federale de Lausanne; Swiss Institute Experimental Cancer Research; University of Lausanne; Centre

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LERU; University of Copenhagen; Novo Nordisk Foundation; University of Texas System; UTMD Anderson Cancer Center; Max Planck Society; University of Vienna; Karolinska Institutet; Wright State University Dayton; University of Wyoming; Qingdao Agricultural University; David Geffen School of Medicine at UCLA; University of California System; University of California Los Angeles; Universidade Estadual Paulista; Institut National de la Sante et de la Recherche Medicale (Inserm); League of European Research Universities - LERU; UDICE-French Research Universities; Universites de Strasbourg Etablissements Associes; Universite de Strasbourg; Ohio State University; Jefferson University; Jefferson University; Institut de Recerca Contra la Leucemia Josep Carreras (IJC); Democritus University of Thrace; Democritus University of Thrace; Middlesex University; Institut National de la Sante et de la Recherche Medicale (Inserm); UDICE-French Research Universities; Universite Cote d'Azur; UDICE-French Research Universities; Universite Cote d'Azur; Baylor College of Medicine; Universidade Federal do ABC (UFABC); Universidade Estadual de Campinas; League of European Research niversities - LERU; University of Barcelona; Institut d'Investigacio Biomedica de Bellvitge (IDIBELL); Kansas City University of Medicine & Biosciences; Goethe University Frankfurt; Fahrenheit Universities; University of Gdansk; University of Catania; Consejo Nacional de Investigaciones Cientificas y Tecnicas (CONICET); University Nacional Cuyo Mendoza; Institut National de la Sante et de la Recherche Medicale (Inserm); UDICE-French Research Universities; Universite de Paris; University of Naples Federico II; University of Wurzburg; University of Kiel; University of Kiel; Schleswig Holstein University Hospital; Georgetown University; Columbia University; University of Illinois System; University of Illinois Chicago; University of Illinois Chicago Hospital; Institut National de la Sante et de la Recherche Medicale (Inserm); Universite de Caen Normandie; University of Sherbrooke; National Institutes of Health (NIH) - USA; NIH Eunice Kennedy Shriver National Institute of Child Health & Human Development (NICHD); Consejo Superior de Investigaciones Cientificas (CSIC); University of Sevilla; CSIC-JA-USE - Instituto de Biomedicina de Sevilla (IBIS); League of European Research Universities - LERU; University of Cambridge; League of European Research Universities - LERU; University of Cambridge; Lomonosov Moscow State University; University of Hamburg; University Medical Center Hamburg-Eppendorf; Charles University Prague; IRCCS Istituto Neurologico Besta; University of Brescia; Australian Regenerative Medicine Institute; Monash University; Consiglio Nazionale delle Ricerche (CNR); Istituto di Scienze dell' Alimentazione (ISA-CNR); Stazione Zoologica Anton Dohrn di Napoli; University of Calabria; Beatson Institute; University of Seoul; Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; Concordia University - Canada; McGill University; Helmholtz Association; Research Center Julich; Saitama University; Oregon State University; Mashhad University Medical Science; Harvard University; Boston Children's Hospital; Harvard University; Harvard Medical School; University of South Carolina System; University of South Carolina Columbia; University of Sydney; Kolling Institute of Medical Research; Barcelona Institute of Science & Technology; Institute for Research in Biomedicine - IRB Barcelona; University of Toyama; Kyoto University; University of Helsinki; University of Helsinki; Helsinki University Central Hospital; State University System of Florida; Florida State University; Institut Hospital del Mar d'Investigacions Mediques (IMIM); Hospital del Mar; Consejo Superior de Investigaciones Cientificas (CSIC); Universidad Pablo de Olavide; CSIC - Andalusian Center for Developmental Biology (CABD); Universidad de Malaga; League of European Research Universities - LERU; Imperial College London; University of Quebec; Institut national de la recherche scientifique (INRS); University of Camerino; University of Glasgow; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Instituto de Biomedicina de Valencia (IBV); Jawaharlal Nehru University, New Delhi; Department of Biotechnology (DBT) India; Institute for Stem Cell Biology & Regenerative Medicine - inStem; University System of Maryland; University of Maryland Baltimore; University of Birmingham; University of Delhi; Folkhalsan Research Center; Mayo Clinic; National Institute of Mental Health & Neurosciences - India; Duke University; Goethe University

Frankfurt; University of Notre Dame; University of London; University College London; University of Texas System; University of Texas Medical Branch Galveston; University of Kaiserslautern; IRCCS Ospedale San Raffaele; IRCCS Aviano (CRO); Medical University of Graz; Communaute Universite Grenoble Alpes; UDICE-French Research Universities; Universite Grenoble Alpes (UGA); Institut National de la Sante et de la Recherche Medicale (Inserm); Medical University of Innsbruck; Hannover Medical School; National Institutes of Health (NIH) - USA; NIH National Institute of Allergy & Infectious Diseases (NIAID); Ruhr University Bochum; Helmholtz Association; German Center for Neurodegenerative Diseases (DZNE); University of Bonn; Forschungszentrum Borstel; Johannes Kepler University Linz; University of Buenos Aires; University of Buenos Aires; Mayo Clinic; Technische Universitat Dresden; University of Wurzburg; University of Natural Resources & Life Sciences, Vienna; Mayo Clinic; University of Luxembourg; Helmholtz Association; Research Center Julich; Universita della Campania Vanvitelli; Sapienza University Rome; IRCCS Neuromed; Rutgers State University New Brunswick; Rutgers State University Medical Center; Consiglio Nazionale delle Ricerche (CNR); Istituto di Genetica Molecolare (IGM-CNR); Helmholtz Association; Helmholtz-Center for Infection Research; Yeshiva University; Albert Einstein College of Medicine; Barcelona Institute of Science & Technology; Institute for Research in Biomedicine - IRB Barcelona; Rice University; University of Illinois System; University of Illinois Chicago; University of Illinois Chicago Hospital; University of Oslo; INRAE; Universite de Pau et des Pays de l'Adour; Cedars Sinai Medical Center; Pennsylvania Commonwealth System of Higher Education (PCSHE); Pennsylvania State University; Pennsylvania State University - University Park; Brown University; Lifespan Health Rhode Island; Rhode Island Hospital; Iowa State University; Dokuz Eylul University; University of Alberta; University of Rochester; Johns Hopkins University; Indian Institute of Science (IISC) - Bangalore; Shenzhen University; University of Alabama System; University of Alabama Birmingham; University of Washington; University of Washington Seattle; US Department of Veterans Affairs; Veterans Health Administration (VHA); Vet Affairs Puget Sound Health Care System; Soochow University - China; Free University of Berlin; Johns Hopkins University; Johns Hopkins Medicine; University of Pennsylvania; Defence Research & Development Organisation (DRDO); Institute of Nuclear Medicine & Allied Sciences (INMAS); Jefferson University; Brown University; Women & Infants Hospital Rhode Island; University of Macau; University of Hong Kong; Nanjing Agricultural University; Shanghai Jiao Tong University; Soochow University - China; Soochow University - China; Van Andel Institute; Fudan University; Juntendo University; National Chung Hsing University; Jikei University; Tokyo Medical & Dental University (TMDU); Tohoku University; Dartmouth College; Kobe University; Department of Science & Technology (India); Agharkar Research Institute (ARI); Savitribai Phule Pune University; Mayo Clinic; National Sun Yat Sen University; Wuhan University; Huazhong University of Science & Technology; University of Calgary; Universidad de la Republica, Uruguay; National Institutes of Health (NIH) - USA; NIH National Institute of Environmental Health Sciences (NIEHS); David Geffen School of Medicine at UCLA; University of California System; University of California Los Angeles; University of Bern; Sechenov First Moscow State Medical University; Assistance Publique Hopitaux Paris (APHP); Hopital Universitaire Necker-Enfants Malades - APHP; UDICE-French Research Universities; Universite de Paris; Boston University; Wayne State University; Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh; Council of Scientific & Industrial Research (CSIR) - India; CSIR - National Physical Laboratory (NPL); Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; Sanjay Gandhi Postgraduate Institute of Medical Sciences; North Dakota State University Fargo; National Jewish Health; National Jewish Health; Masaryk University Brno; Washington State University; League of European Research Universities - LERU; University of Edinburgh; Dong A University; University of Michigan System; University

of Michigan; Lomonosov Moscow State University; Indian Institute of Technology ystem (IIT System); Indian Institute of Technology (IIT) - Indore; Shandong University; Korea University; Guangzhou University of Chinese Medicine; Hong Kong Baptist University; University of Colorado System; University of Colorado Anschutz Medical Campus; Harvard University; Massachusetts General Hospital; Harvard University; Harvard Medical School; Universidade do Porto; i3S - Instituto de Investigacao e Inovacao em Saude, Universidade do Porto; Universidade do Porto; Universidade do Porto; University of Guelph; National Institute of Mental Health & Neurosciences - India; University of Kentucky; Consiglio Nazionale delle Ricerche (CNR); Istituto di Biologia e Patologia Molecolari (IBPM-CNR); Western University (University of Western Ontario); University of Oslo; University of Bonn; Academy of Athens; National & Kapodistrian University of Athens; University of California System; University of California Irvine; University of Erlangen Nuremberg; Technische Universitat Dresden; Slovenian Academy of Sciences & Arts (SASA); Jozef Stefan Institute; University of Hamburg; University Medical Center Hamburg-Eppendorf; Heinrich Heine University Dusseldorf; IRCCS Santa Lucia; Ohio State University; Chinese Academy of Medical Sciences - Peking Union Medical College; Peking Union Medical College; Peking Union Medical College Hospital; Fundacao Oswaldo Cruz; Case Western Reserve University; Rutgers State University Newark; Rutgers State University New Brunswick; Rutgers State University Medical Center; Rutgers State University Newark; Rutgers State University New Brunswick; University of Madras; University of Sydney; Kolling Institute of Medical Research; Royal North Shore Hospital; Hangzhou Normal University; Hangzhou Normal University; Iowa State University; University of Nebraska System; University of Nebraska Lincoln; University of Illinois System; University of Illinois Chicago; University of Illinois Chicago Hospital; Shanghai Jiao Tong University; Wuhan University; Zhejiang University; Zhejiang University; University of Tennessee System; University of Tennessee Health Science Center; Universidade de Sao Paulo; Swedish University of Agricultural Sciences; University of Pennsylvania; University of Missouri System; University of Missouri Columbia; University of Missouri System; University of Missouri Columbia; Tokai University; York University - Canada; Utah System of Higher Education; University of Utah; Utah System of Higher Education; University of Utah; Utah System of Higher Education; University of Utah; Hong Kong Baptist University; Hong Kong Baptist University; Ohio University; Ohio University; Free University of Berlin; Humboldt University of Berlin; Charite Universitatsmedizin Berlin; University of Texas System; University of Texas Health Science Center Houston; Chengdu Medical College; University of Glasgow; Pennsylvania Commonwealth System of Higher Education (PCSHE); Pennsylvania State University; Penn State Health; Vellore Institute of Technology; Chinese University of Hong Kong; League of European Research Universities - LERU; UDICE-French Research Universities; Universite Paris Saclay; Tokyo Medical & Dental University (TMDU); National Neuroscience Institute (NNI); National University of Singapore; Wuhan University; Wuhan University; Kyoto Prefectural University of Medicine; RIKEN; Hubei University of Technology; Chinese Academy of Sciences; University of Chinese Academy of Sciences, CAS; Juntendo University; Harvard University; Massachusetts General Hospital; Foundation for Research & Technology - Hellas (FORTH); University of Crete; Duke University; Geriatric Research Education & Clinical Center; University of North Carolina; University of North Carolina Chapel Hill; Cardiff University; Goethe University Frankfurt; Institut National de la Sante et de la Recherche Medicale (Inserm); Universite Paris-Est-Creteil-Val-de-Marne (UPEC); Universite Paris-Est-Creteil-Val-de-Marne (UPEC); Chulalongkorn University; University of Liverpool; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Centro de Investigac ones Biologicas (CIB); Carl von Ossietzky Universitat Oldenburg; University of Kansas; University of Kansas Medical Center; University of Nebraska System; University of Nebraska Medical Center; University of Colorado System; University of Colorado Anschutz Medical Campus; Council of Scientific & Industrial Research (CSIR) - India; CSIR - Institute of Genomics & Integrative Biology (IGIB); Hannover Medical School; University of Gottingen;

South China Agricultural University; University of Bonn; University of Antwerp; Wayne State University; University of Oviedo; Justus Liebig University Giessen; Zhejiang University; Zhejiang University; Northwestern University; Feinberg School of Medicine; Institut National de la Sante et de la Recherche Medicale (Inserm); League of European Research Universities - LERU; UDICE-French Research Universities; Sorbonne Universite; Universite de Paris; Nagoya University; University of Belgrade; University of Naples Federico II; Universidade Federal do Rio de Janeiro; National & Kapodistrian University of Athens; Medical University of South Carolina; University of Bern; University of Hong Kong; University of Southampton; University of Moncton; University of Birmingham; Russian Academy of Sciences; Komarov Botanical Institute, Russian Academy of Sciences; Nottingham Trent University; League of European Research Universities - LERU; University of Oxford; League of European Research Universities - LERU; University of Oxford; League of European Research Universities - LERU; University of Oxford; Institute of Psychiatry & Neurology; Sechenov First Moscow State Medical University; Mie University; University Osnabruck; University Osnabruck; Nagoya City University; Eberhard Karls University of Tubingen; League of European Research Universities - LERU; University of Milan; University of Buenos Aires; League of European Research Universities - LERU; University of Oxford; University of Murcia; Hospital Clinico Universitario Virgen de la Arrixaca; Leloir Institute; Consejo Nacional de Investigaciones Cientificas y Tecnicas (CONICET); University of Buenos Aires; CIBER - Centro de Investigacion Biomedica en Red; CIBERDEM; Instituto de Salud Carlos III; Zhejiang University; Vanderbilt University; League of European Research Universities - LERU; Utrecht University; Utrecht University Medical Center; Goethe University Frankfurt; League of European Research Universities - LERU; KU Leuven; University Hospital Leuven; League of European Research Universities - LERU; KU Leuven; Ludwig Institute for Cancer Research; University of Lausanne; IRCCS Eugenio Medea; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Instituto de Investigaciones Biomedicas Alberto Sols (IIBM); Instituto de Salud Carlos III; Harvard University; Harvard Medical School; University of Duisburg Essen; University of Groningen; Tuscia University; Academy of Athens; Universite de Toulouse; Universite Toulouse III - Paul Sabatier; Centre National de la Recherche Scientifique (CNRS); Washington University (WUSTL); University of Valencia; Centre National de la Recherche Scientifique (CNRS); CNRS - National Institute for Biology (INSB); Universite de Montpellier; Universidade Nova de Lisboa; University of Helsinki; Autonomous University of Barcelona; Hospital Universitari Vall d'Hebron; Vall d'Hebron Institut de Recerca (VHIR); ICREA; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Instituto de Biomedicina de Valencia (IBV); Institut National de la Sante et de la Recherche Medicale (Inserm); Universite de Toulouse; Universite Toulouse III - Paul Sabatier; Catholic University of the Sacred Heart; IRCCS Policlinico Gemelli; Catholic University of the Sacred Heart; IRCCS Policlinico Gemelli; Simon Fraser University; Consiglio Nazionale delle Ricerche (CNR); Istituto di Analisi dei Sistemi ed Informatica "Antonio Ruberti" (IASI-CNR); IRCCS Santa Lucia; European Academy of Bozen-Bolzano; University of Bonn; National Institutes of Health (NIH) - USA; NIH National Institute of Allergy & Infectious Diseases (NIAID); League of Europe n Research Universities - LERU; University of Oxford; Fukushima Medical University; University of California System; University of California Los Angeles; University of Queensland; University of Queensland; University of Bonn; Autonomous University of Madrid; Consejo Superior de Investigaciones Cientificas (CSIC); CSIC - Centro de Biologia Molecular Severo Ochoa (CBM); Autonomous University of Madrid; CIBERNED; Chang Gung University; Chang Gung Memorial Hospital; National Health Research Institutes - Taiwan; China Pharmaceutical University; University of California System; University of California Los Angeles; Southern Medical University - China; University of Michigan System; University of Michigan; Shanghai Jiao Tong University; Army Medical University; Soochow University - China; Soochow University - China; Chinese Academy of Sciences; National Center for Nanoscience & Technology - China; China Agricultural University; China Agricultural University; Soochow University - China; China Academy of

Chinese Medical Sciences; China Academy of Chinese Medical Sciences; Institute of Chinese Materia Medica, CACMS; Shanxi Agricultural University; Sichuan University; Chinese University of Hong Kong; Air Force Military Medical University; Jinan University; Huazhong Agricultural University; National University of Singapore; Northwell Health; University of Kentucky; Southern Medical University - China; Cleveland Clinic Foundation; City of Hope; Beckman Research Institute of City of Hope; Xuzhou Medical University; Stanford University; University of South Dakota; University of Michigan System; University of Michigan; Kaohsiung Medical University; University of Southampton; University of Southampton; Nanjing Agricultural University; Saint Louis University; Air Force Military Medical University; Air Force Military Medical University; Fujian Medical University; Wenzhou Medical University; University of London; Queen Mary University London; Juntendo University; Chiba University; Cincinnati Children's Hospital Medical Center; Cincinnati Children's Hospital Research Foundation; University of Cincinnati; University of Denver; University of Pennsylvania; Guangzhou Medical University; Washington University (WUSTL); University of Bonn; RWTH Aachen University; RWTH Aachen University Hospital; Pennsylvania Commonwealth System of Higher Education (PCSHE); University of Pittsburgh; Stanford University; Harvard University; Brigham & Women's Hospital; Harvard University; Brigham & Women's Hospital; University of Nottingham; Scripps Research Institute; League of European Research Universities - LERU; University of Cambridge; League of European Research Universities - LERU; University of Amsterdam; UK Research & Innovation (UKRI); Biotechnology and Biological Sciences Research Council (BBSRC); Quadram Institute; League of European Research Universities - LERU; University of Edinburgh; Heinrich Heine University Dusseldorf; Queensland University of Technology (QUT); University of London; Royal Holloway University London; University of Nebraska System; University of Nebraska Lincoln; University of Erlangen Nuremberg; University of Toronto; Cornell University; Centre National de la Recherche Scientifique (CNRS); CNRS - National Institute for Biology (INSB); UDICE-French Research Universities; Universite de Bordeaux; Le Reseau International des Instituts Pasteur (RIIP); Institut Pasteur Paris; National University of Singapore; National University of Singapore; Shenzhen University; Kanazawa University; League of European Research Universities - LERU; University of Zurich; Southwest Medical University; University of California System; University of California San Diego; University System of Maryland; University of Maryland Baltimore; University System of Maryland; University of Maryland Baltimore; University System of Maryland; University of Maryland Baltimore; National Health Research Institutes - Taiwan; University of North Dakota Grand Forks; Soochow University - China; Xi'an Jiaotong University; Zhejiang Provincial People's Hospital; University of Kansas University of Kansas; University of Kansas Medical Center; Zhejiang University; Zhejiang University; Harvard University; Massachusetts General Hospital; Massachusetts Institute of Technology (MIT); Broad Institute; Shenzhen University; University of Hong Kong; Wuhan University; Shanghai Jiao Tong University; University of Erlangen Nuremberg; National Neuroscience Institute (NNI); Southern University of Science & Technology; Sichuan University; University of Electronic Science & Technology of China; Sichuan Provincial People's Hospital; Wenzhou Medical University; Queensland University of Technology (QUT); Sun Yat Sen University; South China Agricultural University; Army Medical University; University of Alabama System; University of Alabama Birmingham; University System of Georgia; Georgia State University; Academy of Athens; Chinese Academy of Sciences; Shanghai Jiao Tong University; Guangzhou Medical University; Guangzhou Medical University; Yangzhou University; Kyoto Institute of Technology; Ehime University; Columbia University; Juntendo University; Indiana University System; Indiana University Bloomington; National Cheng Kung University; University of Virginia; Asahikawa Medical College; Nathan Kline Institute for Psychiatric Research; New York University; Chinese Academy of Sciences; Capital Medical University; University of Kentucky; University of Iowa; Air Force Military Medical University; Shandong First Medical University & Shandong Academy of Medical Sciences; Taipei Medical

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