The background of the image features three circular insets showing microscopic views of tissue or cellular structures. The top-left inset shows a dense, red-stained area. The bottom-left inset shows a tissue section with large, clear, polygonal cells. The bottom-right inset shows a tissue section with a mix of green and purple staining. A large, solid blue circle is positioned in the center, containing the text.

**idis**

**2022 | ANNUAL REPORT**  
Memoria anual

## **EDITION AND PRODUCTION**

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

**José Ramón Castro Ruibal**  
Technical Management

**Yolanda Liste Martínez**  
Technical Management

**Iria Louzao Pernas**  
Technical Management

## **APPROVAL**

IDIS board of Directors meeting.  
Santiago de Compostela,  
on 24 April 2023.



**idis**



## Mª Luz Couce Pico

Directora Científica  
*Scientific Director*

Xa é o segundo ano que escribo o prólogo desta memoria, neste caso de 2022, e fágo de novo con satisfacción e orgullo de continuar avanzando grazas, non cabe dúbida, á grande fortaleza deste Instituto, a súa masa crítica de investigadores e investigadoras que conforman grupos de excelencia, que son referencia a nivel nacional e internacional no seu ámbito.

O IDIS, como eixe da investigación sanitaria galega, é un dos grandes institutos de investigación biomédica de España, cunha crecente captación de recursos e producción científica como se reflicte na memoria. Un dato que me gustaría resaltar é o obtido na convocatoria dos proxectos AES do ISCIII de 2022, na que o IDIS destacou como quinto no número de proxectos captados, cuartos na captación económica media por proxecto e segundos en canto a porcentaxe de éxito. O IDIS destaca ademais pola súa capacidade de innovación e transferencia, é unha incubadora para empresas biotecnolóxicas, con xa 13 empresas de base tecnolóxica que saíron do noso centro.

Para tratar de proseguir nesta liña, no 2022 puxemos en marcha a Unidade Transversal de Metodoloxía da Investigación (UTAMI), co fin de axudar tamén aos investigadores xoves e emerxentes. Incorporamos por vez primeira un grupo investigador liderado por profesionais da enfermería; contribuímos a abrinxos máis á sociedade coa incorporación

da cidadanía, con representantes de asociacións de pacientes, de empresas e de fundacións sociais nas nosas comisións; obtivemos a acreditación por parte da Consellería de Sanidade da nosa Unidade de Ensaios Clínicos en fases temperás, e puxemos en marcha unha oficina de ensaios clínicos; continuamos co plan de formación posto en marcha e de acreditación das plataformas e servizos de apoio común.

Ademais da nosa nova web, que estreamos nesta anualidade, temos aínda a materia pendente de dar unha maior visibilidade, que trataremos de impulsar neste novo ano. A nosa necesidade máis urgente, os medios físicos. Dispor de instalacións modernas e manter unha comunicación máis directa co persoal investigador para analizar os diferentes camiños que toman na investigación é prioritario para continuar neste camiño ascendente que trazamos. Ilusión e afán por consegui-lo non nos faltará.

It is already the second year that I am writing the prologue of this report, in this case 2022, and I am doing it again with satisfaction and pride in continuing to move forward thanks to the great strength of this Institute, its critical mass of researchers who make up groups of excellence, which are of national and international reference in their field.

IDIS, as the axis of Galician health research, is one of the great biomedical research institutes in Spain, with a growing fundraising and scientific production as reflected in the report. I would like to highlight the results obtained for AES 2022 grant calls of the ISCIII, in which IDIS was ranked 5<sup>th</sup> in the number of projects captured, 4<sup>th</sup> in the average financial capture per project and 2<sup>nd</sup> in terms of the percentage of success. The IDIS also stands out for its capacity for innovation and transfer, it is an incubator for biotechnological companies, with already 13 technology-based companies that originated in our centre.

Trying to follow this line, in 2022 we launched the Research Methodology Transfer Unit (UTAMI), in order to

also assist young and emerging researchers. We incorporated for the first time a research group led by nursing professionals; we contribute to increase our opening to society with the incorporation of citizens, with representatives of patient associations, companies and social foundations in our commissions; we have obtained accreditation from the Department of Health for our Clinical Trials Unit in the early stages, and we have launched a clinical trials office; we continue with the training plan launched and the accreditation of common support platforms and services.

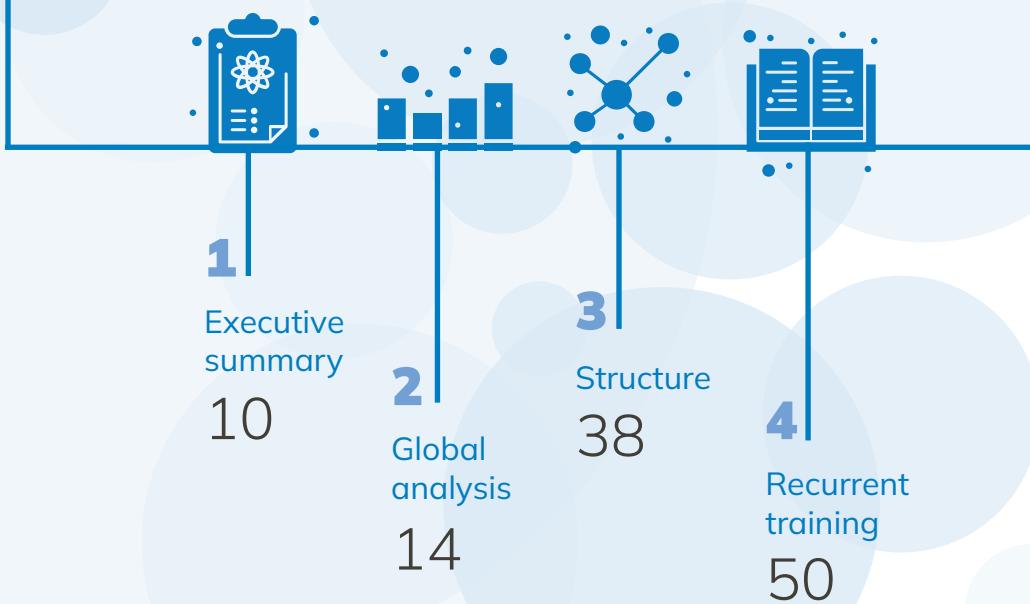
Despite our new website, which we launched this year, we still have the pending issue of giving greater visibility to the institute, which we are developing this 2023. Our most pressing need, research spaces. Having modern facilities and maintaining more direct communication with the research staff to analyze the different paths taken by the research is a priority to continue on this upward path that we have drawn. Illusion and eagerness to achieve it will not be missing.

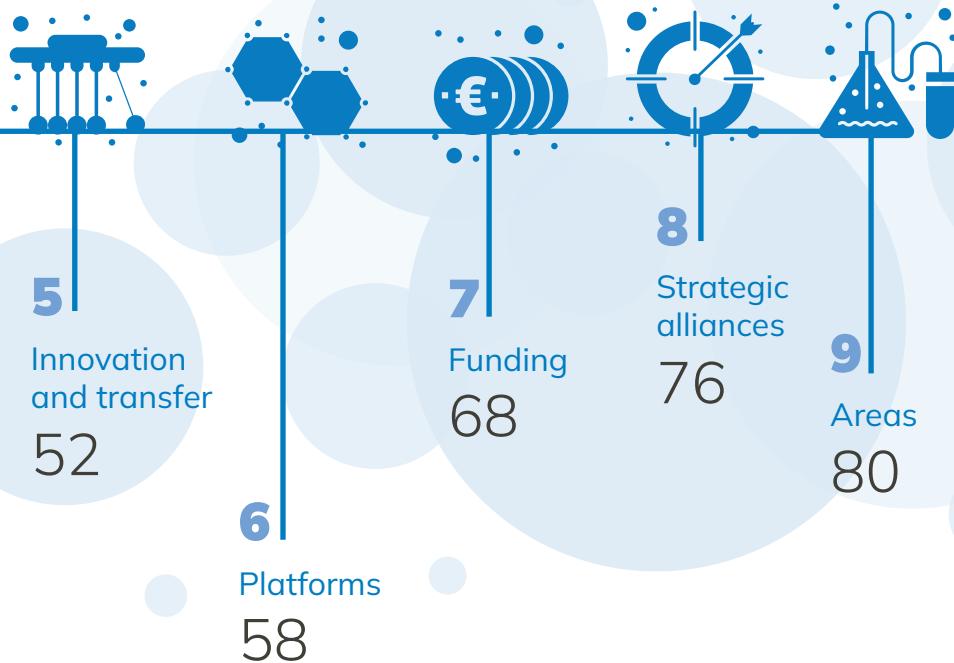


“O IDIS, como eixe da investigación sanitaria galega, é un dos grandes institutos de investigación biomédica de España,...”

“IDIS, as the axis of Galician health research, is one of the great biomedical research institutes in Spain,...”

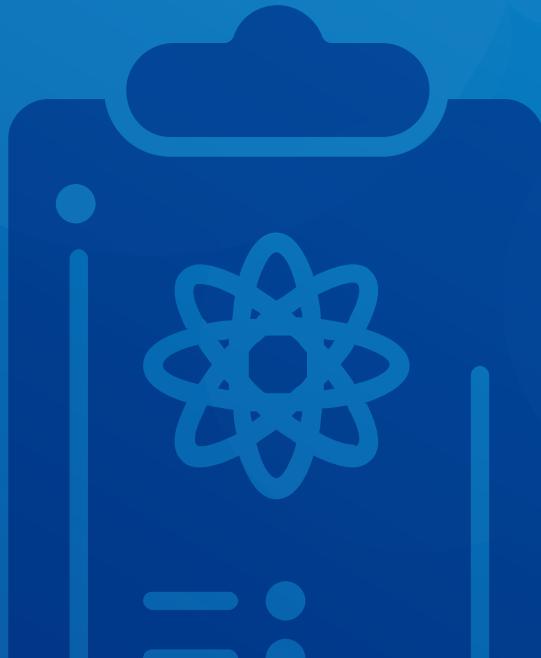
# Summary

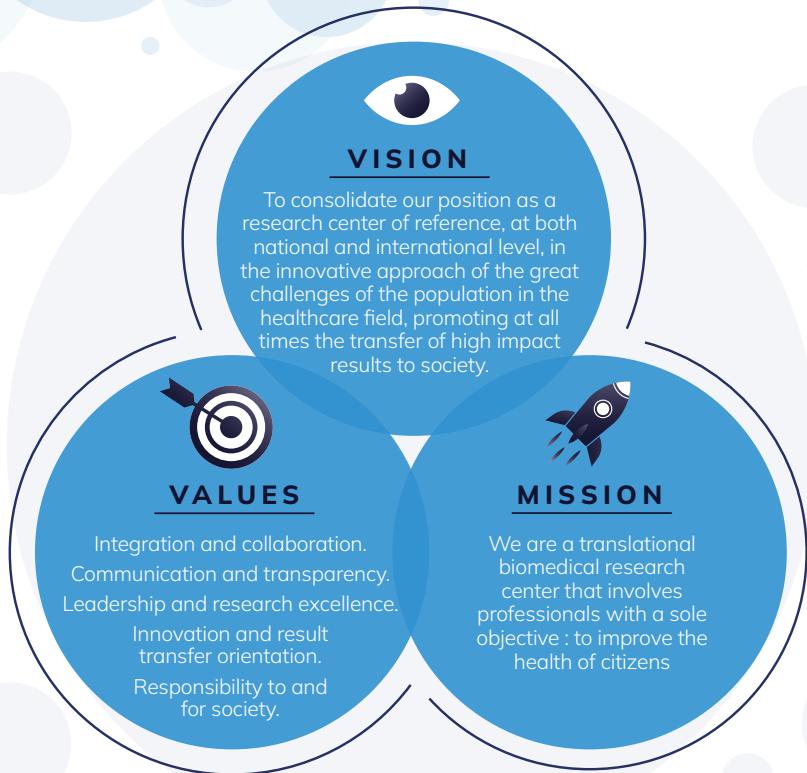




# 1

## 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.

# 43.577.655,29 €

Total funds raised

**118**  
Projects

**129**  
Donations

**103**  
Clinical  
trials

**82**  
Staff  
contracts

**375**

Contracts  
and provision  
of services

**114**

Other  
studies

**1.003**

Published  
articles

**88**

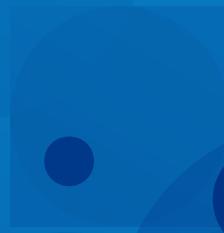
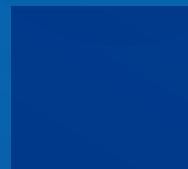
PhD  
Theses

**7**

Granted  
patents

**54**

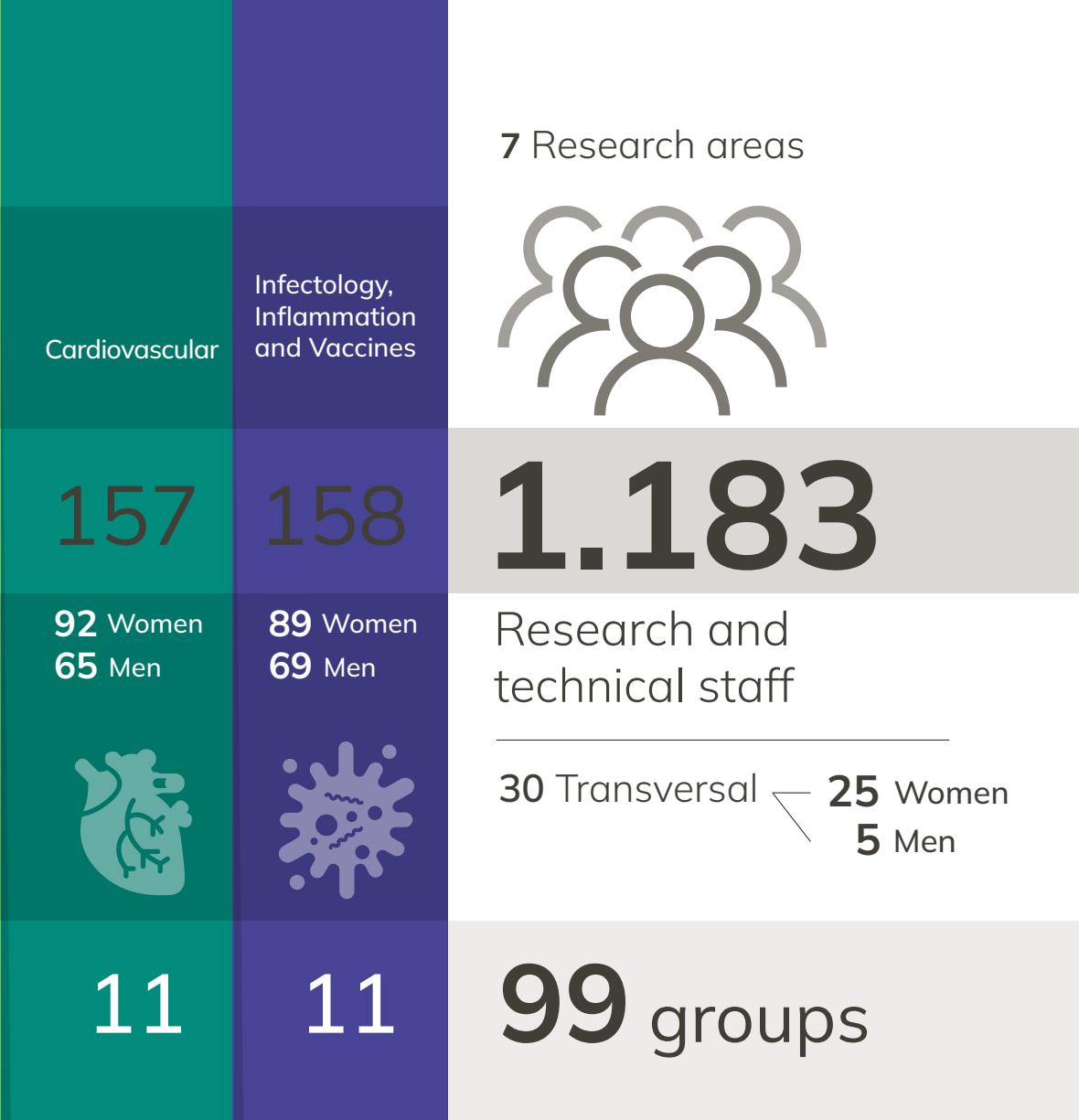
Requested  
patents



2

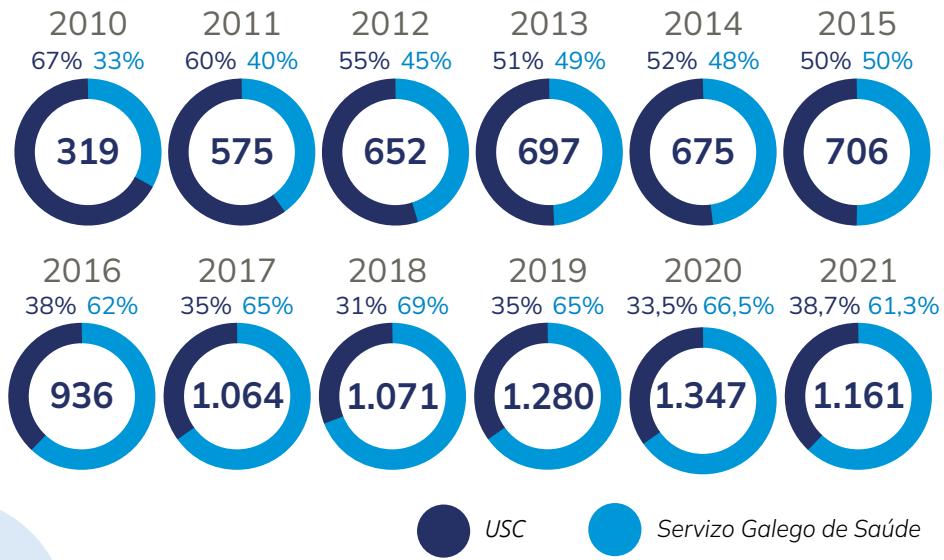
# Global analysis

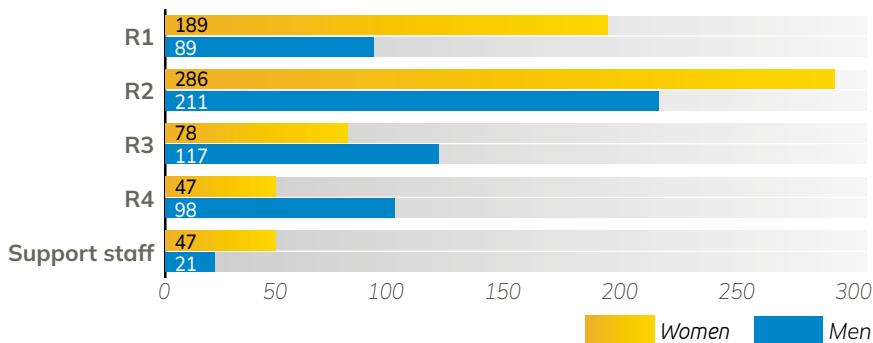
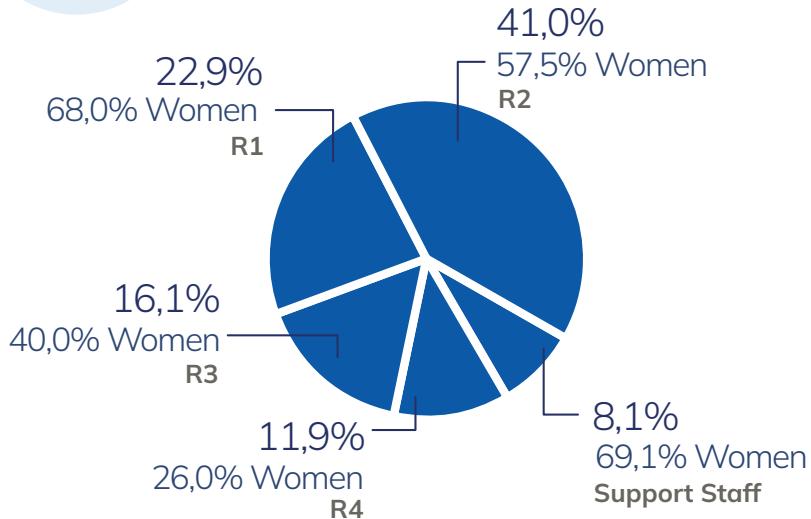
Oncology	Genetics and Systems Biology	Endocrinology, Nutrition and Metabolism	Neurosciences	Platforms and Methodology
243	146	131	207	141
137 Women 106 Men	80 Women 66 Men	84 Women 47 Men	109 Women 98 Men	55 Women 86 Men
19	11	15	20	12



## 2. Global analysis

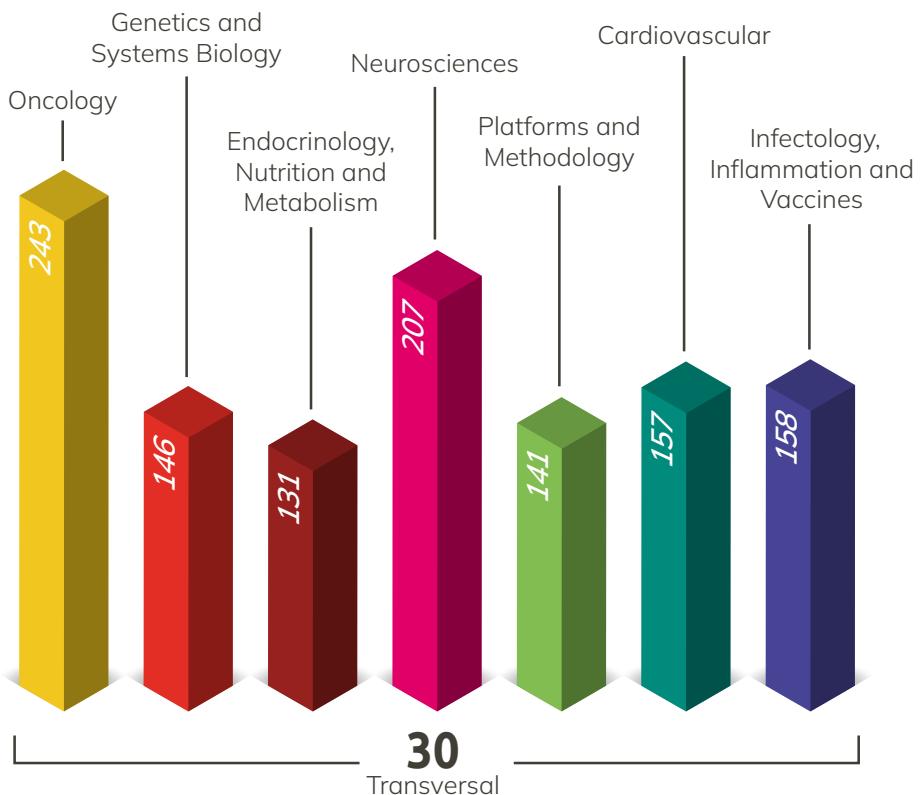
### History of a joint venture: human resources in figures

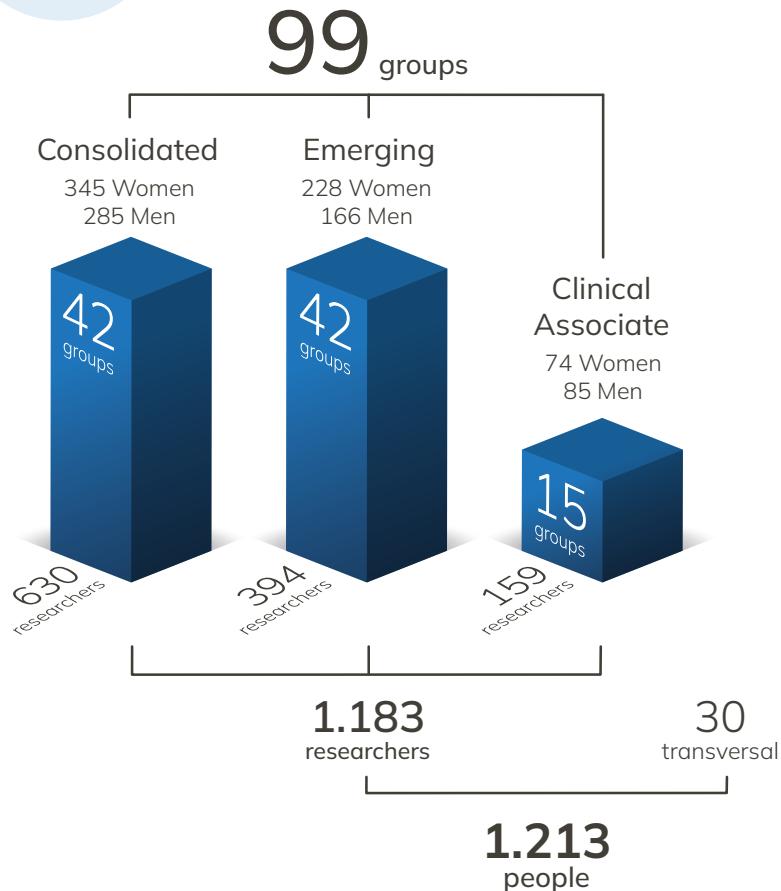




## 2. Global analysis

### Number of researchers per area

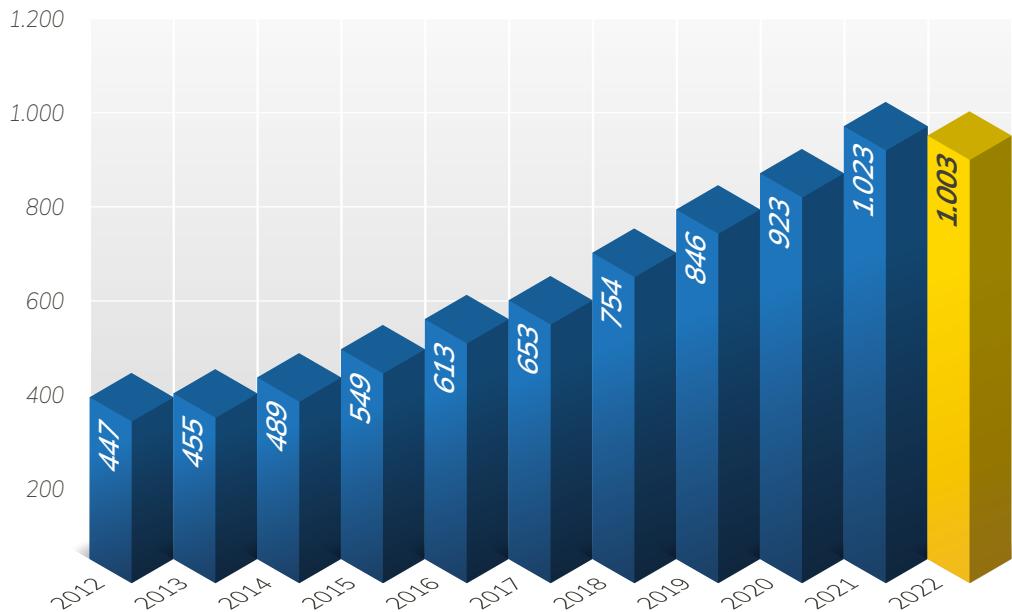




## 2. Global analysis

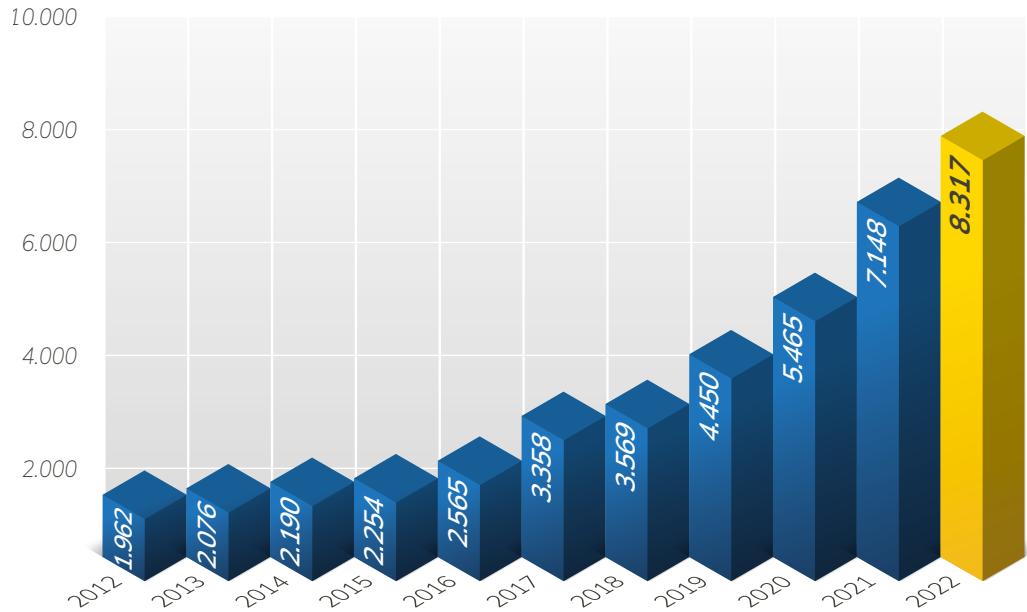
### Number of published articles per year

The Institute has published 1.003 original scientific articles, editorials and reviews in 536 international journals indexed in the *Journal Citation Report* with a cumulative impact factor of 8.317,05 points.



## Cumulative impact factor

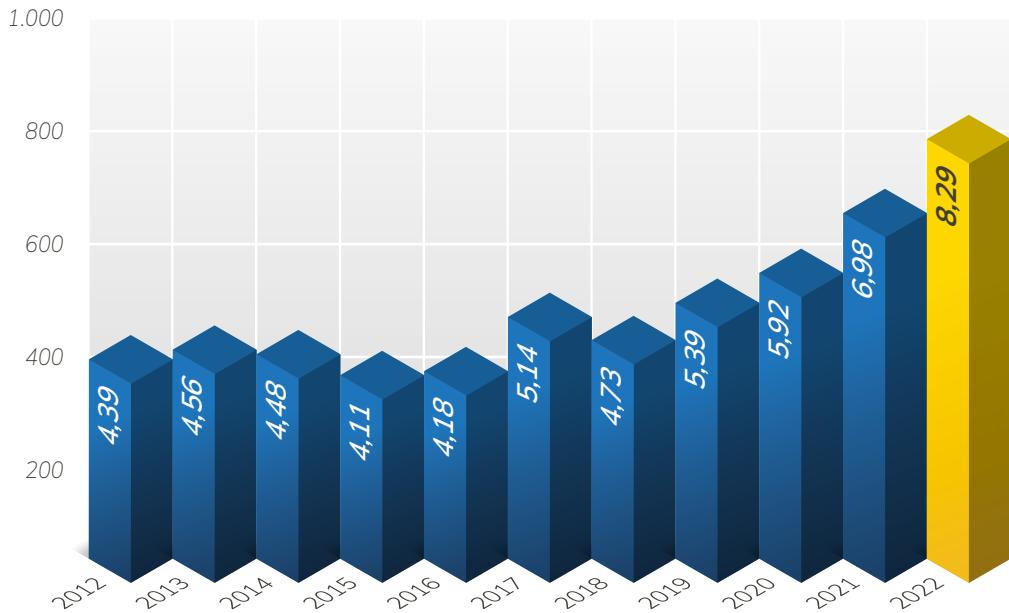
The upward trend of the **cumulative impact factor** is maintained since it moves from 1.962 in 2012 to 8.317,05 in 2022.



## 2. Global analysis

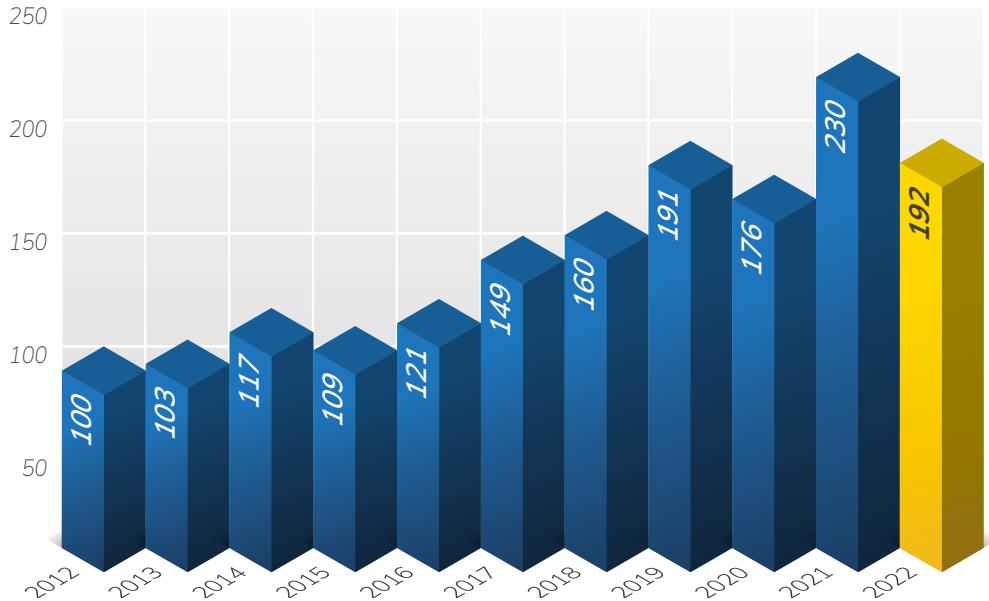
### Average impact factor

The **average impact increased** by more than one entire point from last year, continuing the annual upward trend.



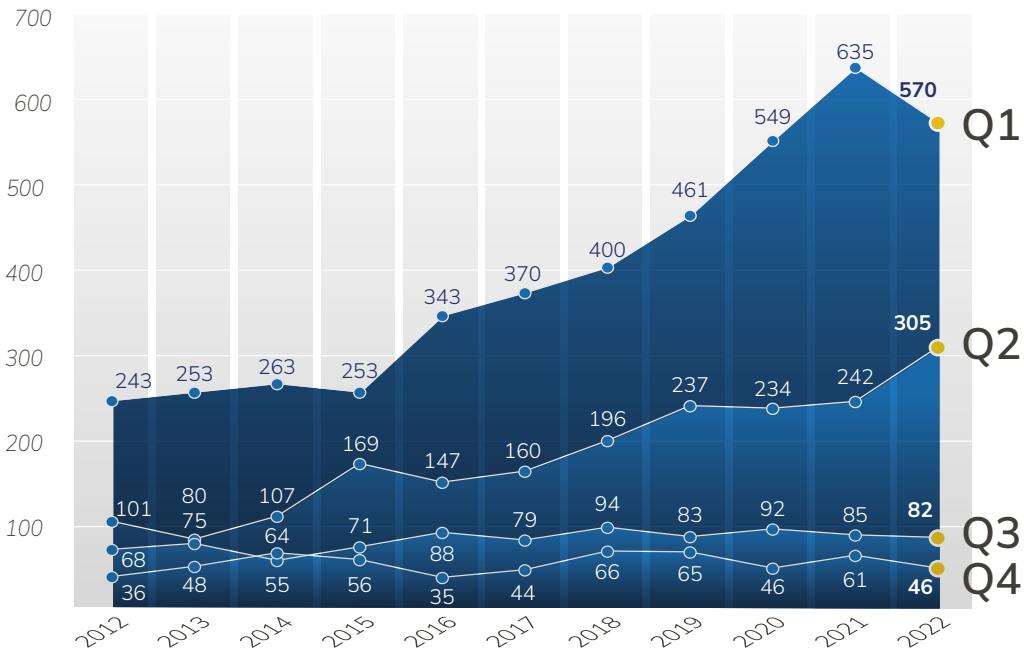
## Number of articles published in journals ranked in the first decile

The **number of articles in leading journals increases** along the period 2012-2022, confirming a recurrent upward trend for that period, both for D1 and Q1 ranked journals.



## 2. Global analysis

Number of published articles per year,  
by journal quartile



**830**  
Original papers

**141**  
Reviews

**32**  
Editorial material

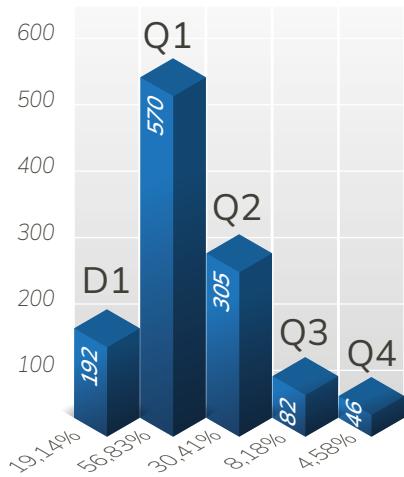
**8**

Clinical practice  
guidelines

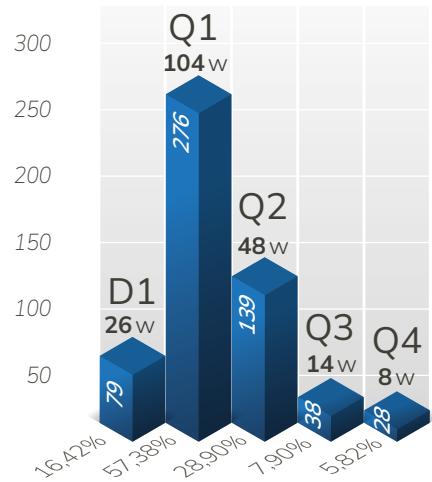
## Number of publications and % of the total in 2022

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

**1.003** total



**481** preferred autor  
**168** female preferred author (34.9%)\*  
**174** female preferred author (36.2%)\*\*



\* Publication gender is assigned considering the corresponding author/s in the first place, then last author and finally, first autor

\*\* Publication gender is assigned considering the corresponding author/s in the first place, then first author and finally, last (not corresponding) author

Note: In case of shared authorships of different gender, female is assigned

## 2. Global analysis

# Publications in 2022

**24,33%**

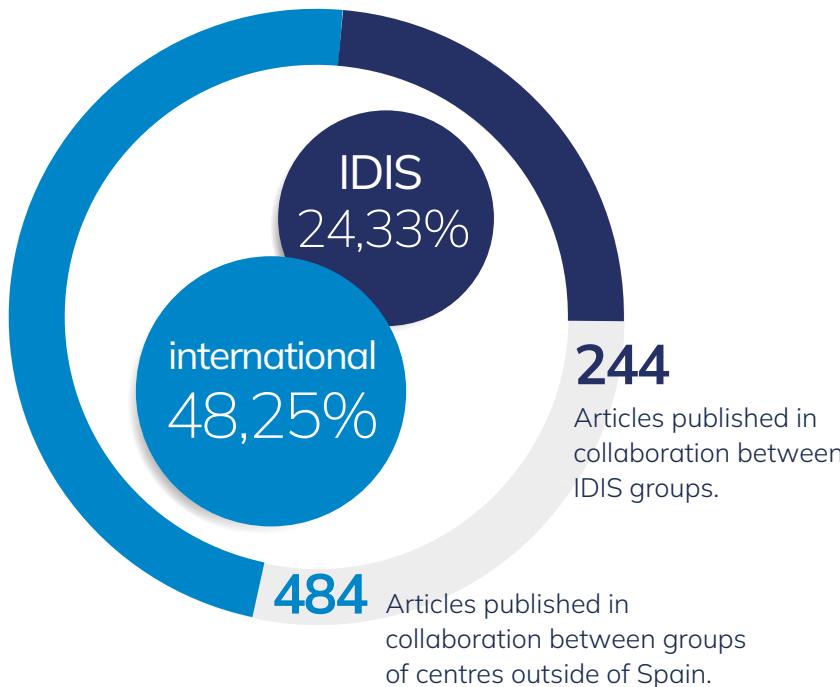
of the work was carried out by teams in which members of more than one IDIS group were involved.

**48,25%**

was done in collaboration with researchers from centres outside of Spain.

## Number and % of articles published

in collaboration between IDIS groups and  
groups of centres outside of Spain.



## 2. Global analysis

### Summary of the funding raised in 2022

Concept	Number	Amount
Projects	118	<b>23.573.716,41 €</b>
Human resources	82	<b>9.574.362,91 €</b>
Studies (Clinical Trials, Other Studies)	217	<b>4.887.610,80 €</b>
Contracts and provision of services	375	<b>4.492.544,56 €</b>
Donations	129	<b>749.314,30 €</b>
Infrastructures	3	<b>265.000,00 €</b>
Mobility grants	4	<b>21.355,00 €</b>
Transfer	1	<b>13.751,30 €</b>

During 2022, 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 **43.577.655,29 €** which will complement the resources of the institutions that take part in IDIS.



A graphic consisting of two overlapping circles. The smaller, dark blue circle contains the text "Amount 2022". The larger, light blue circle contains the text "43.577.655,29 €".

Amount  
2022

**43.577.655,29 €**

## 2. Global analysis

Amount raised, 2022

**43.577.655,29 €**

50.000.000 €

40.000.000 €

30.000.000 €

20.000.000 €

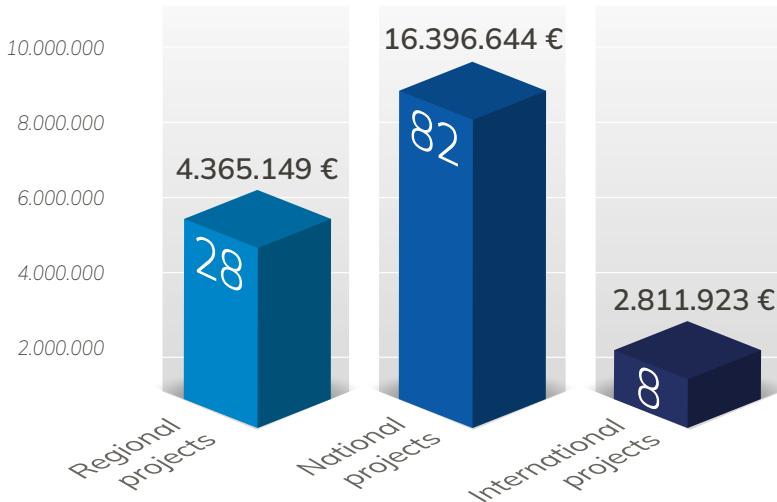
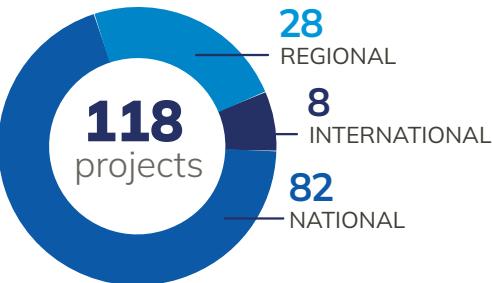
10.000.000 €



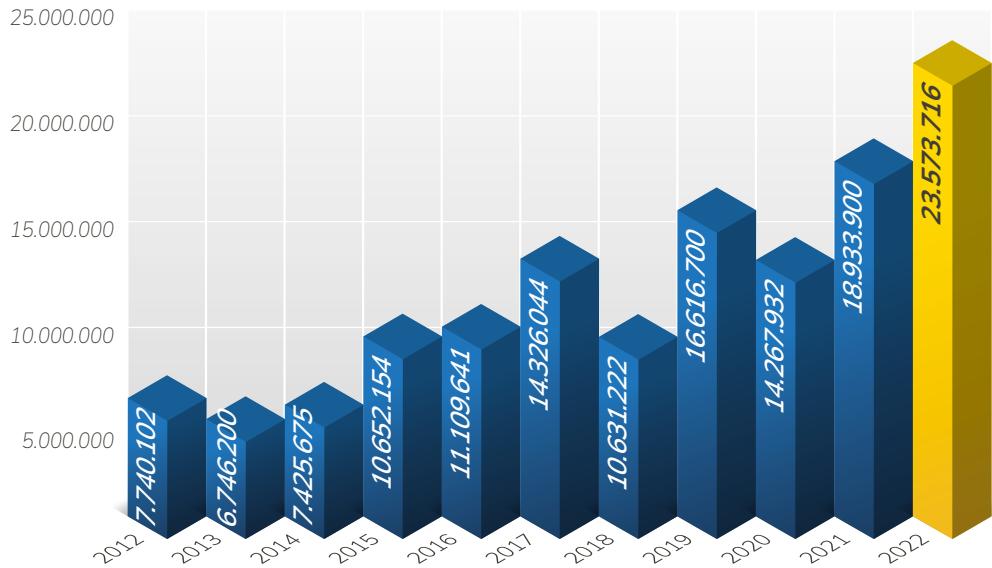


## 2. Global analysis

Number and amount of funds raised in 2022 for projects by location



## Project funding per year



Number of projects

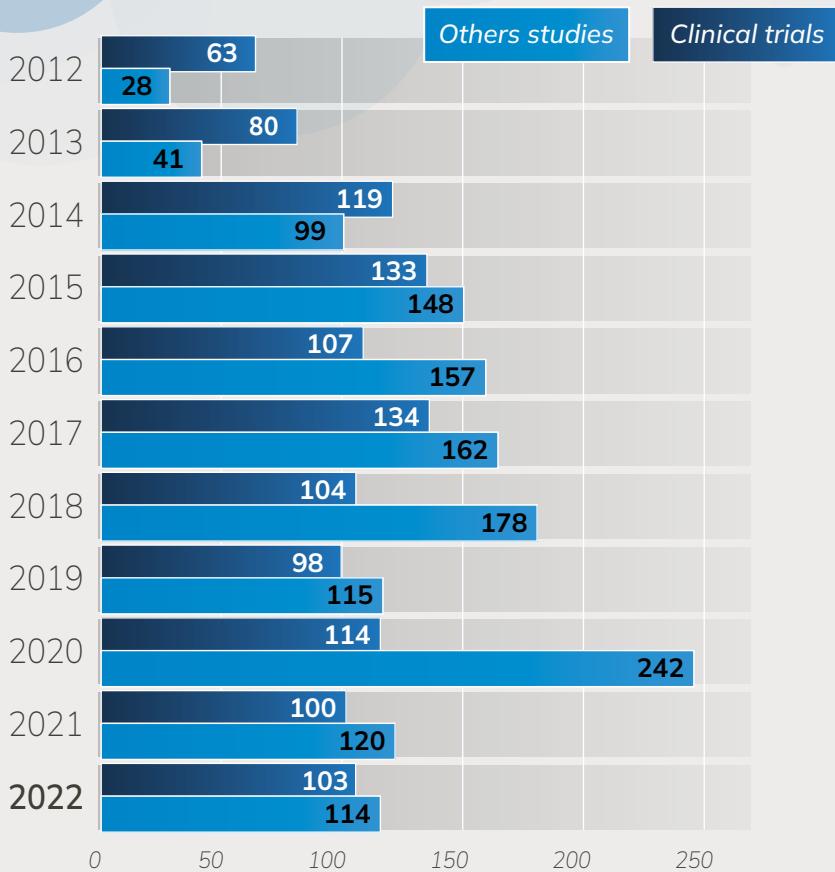
IP	National	International	Regional	Total
Women	29	3	9	41
Men	53	5	19	77

Project funding

IP	National	International	Regional	Total
Women	5.256.206 €	917.303 €	1.554.938 €	7.728.447 €
Men	11.140.438 €	1.894.620 €	2.810.211 €	15.845.269 €

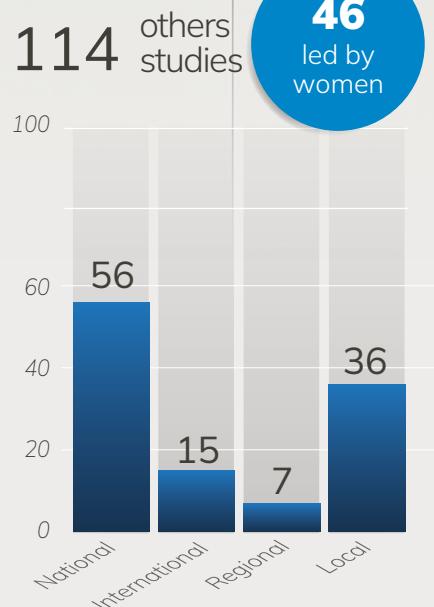
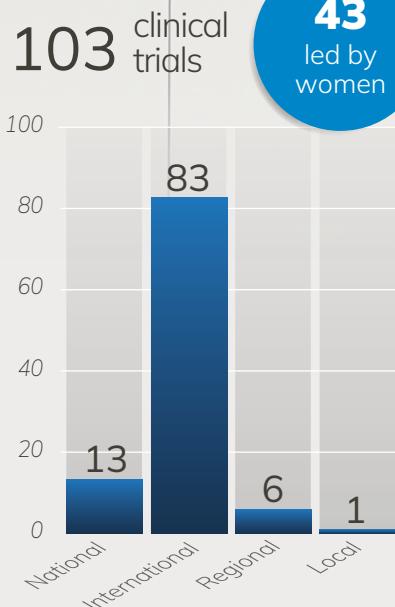
## 2. Global analysis

### Number of clinical trials and other studies



A maioría da xente pensa que é o intelecto o que fai a un gran científico. Están equivocados: é o carácter.

Albert Einstein

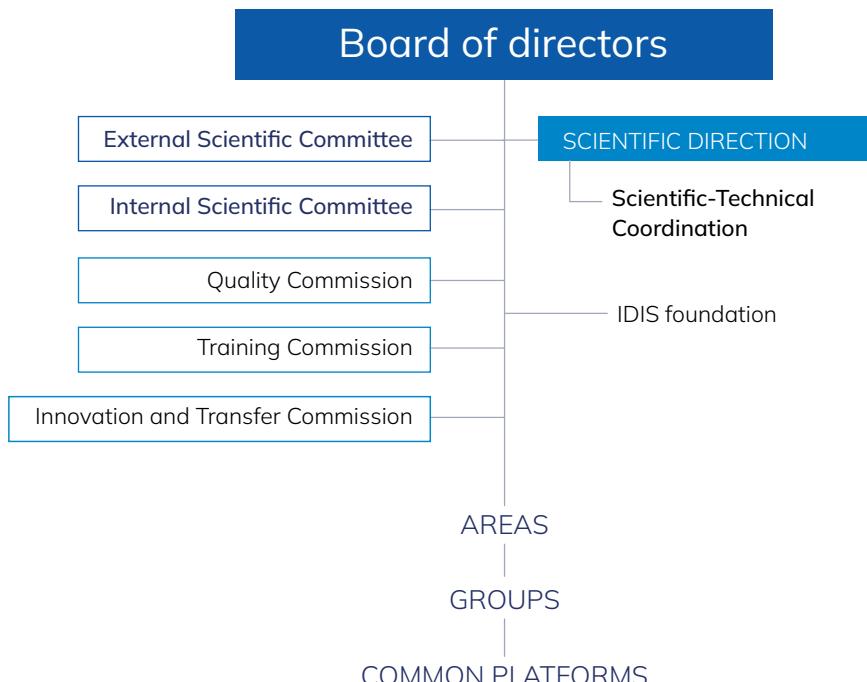


Pregúntate  
ao lugar on  
Walt Disney

# 3

## Structure





### 3. Structure



## External Scientific Committee

Ángeles Almeida Parra  
Melchor Álvarez de Mon Soto  
María del Carmen Ayuso García  
Joan Comella Carnicé  
Encarnación Guillén Navarro  
Rosario Luquin Piudo  
Antonio Vidal Puig

## 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  
Anxo Fernández Ferreiro  
José Ramón González Juanatey  
Francisco Gude Sampedro  
José Luis Labandeira García  
Isabel Lista García  
Rafael López López  
Miguel López Pérez  
Mabel Loza García  
Paula Mariño Lorenzo  
Miguel Ángel Martínez Olmos  
Federico Martinón Torres  
Laura Muñelo Romay  
Daniel Rey Aldana  
Mabel Sampedro Parada  
Ana Vega Gliemmo

### 3. Structure



## A001 ONCOLOGY

*Leaders: Rafael López López / José Manuel Castro Tubío*

<b>C010</b>	Genetics of Human Diseases	Fernando Domínguez Puente
<b>C011</b>	Pathology	José Ramón Antúnez López
<b>C025</b>	NANOBIOFAR	María José Alonso Fernández
<b>C030</b>	Traslational Medical Oncology	Rafael López López
<b>C032</b>	Molecular Imaging	Pablo Aguiar Fernández
<b>E004</b>	Molecular Oncology	José Antonio Costoya Puente
<b>E018</b>	Cell Cycle and Oncology (CiClon)	Anxo Vidal Figueroa
<b>E028</b>	Cell senescence, cancer and aging	Manuel Collado Rodríguez
<b>E031</b>	Oncologic Endocrinology	Román Pérez Fernández
<b>E032</b>	Preclinical Animal Models	Laura Sánchez Piñón
<b>E033</b>	Viruses and cancer	María del Carmen Rivas Vázquez
<b>E037</b>	DNA Repair and Genome Integrity	Miguel González Blanco
<b>E040</b>	Mobile Genomes and Disease	José Manuel Castro Tubío
<b>E043</b>	Medical Physics and Biomathematics	Juan Pardo Montero
<b>E044</b>	Nano-Oncology and Translational Therapy Unit	María de la Fuente Freire
<b>E051</b>	Oral and maxillofacial medical-surgicalpathology	Mario Pérez Sayáns
<b>AC01</b>	Lymphoproliferative Disorders	José Luis Bello López
<b>AC06</b>	Translational ophthalmology	María José Blanco Teijeiro
<b>AC08</b>	Surgical Oncology	Manuel Bustamante Montalvo

### 3. Structure

## A002 GENETICS AND SYSTEMS BIOLOGY

**Leaders:** Ángel Carracedo Álvarez / María Isabel Loza García

<b>C005</b>	Genetics	Ángel Carracedo Álvarez
<b>C009</b>	Translational Research in Digestive Diseases	Juan Enrique Domínguez Muñoz
<b>C026</b>	BIOFARMA	María Isabel Loza García
<b>C041</b>	Cancer Genetics and Rare Diseases	Ana Paula Vega Gliemmo
<b>E012</b>	Comparative Genomics of Human Parasites	Julio Manuel Maside Rodríguez
<b>E020</b>	Psychiatric Genetics	Javier Costas Costas
<b>E021</b>	Genetics and Developmental Biology of Kidney Diseases	Miguel Ángel García González
<b>E035</b>	Genetics of Gastrointestinal Tumours	Clara Ruiz Ponte
<b>E036</b>	Stem Cells and Human Diseases	Miguel Ángel Fidalgo Pérez
<b>E047</b>	Cancer Genetics and Epidemiology Group	Manuela Gago Domínguez
<b>E054</b>	Epitranscriptomics and aging	Diana Guallar Artal

## A003 ENDOCRINOLOGY, NUTRITION AND METABOLISM

**Leaders:** Miguel A. Martínez Olmos / Luisa M<sup>a</sup> Seoane Camino

<b>C001</b>	Neoplasia and Endocrine Differentiation	Clara Álvarez Villamarín
<b>C006</b>	Molecular Endocrinology	Felipe Casanueva Freijo
<b>C008</b>	Obesity and Nutrition	Carlos Diéguez González
<b>C012</b>	Metabolic Disorders	María de la Luz Couce Pico
<b>C019</b>	Thyroid and Metabolic Disorders Unit (UETeM)	David Araújo Vilar
<b>C022</b>	Paediatric Nutrition	Rosaura Leis Trabazo
<b>C029</b>	Neuroobesity	Miguel López Pérez
<b>C031</b>	Molecular Metabolism	Rubén Nogueiras Pozo
<b>C037</b>	Trace Elements, Spectroscopy and Speciation	Pilar Bermejo Barrera
<b>E023</b>	Obesidomics	María Pardo Pérez
<b>E025</b>	Cellular Endocrinology	Jesús Pérez Camiña
<b>E026</b>	Endocrine Physiopathology	Luisa María Seoane Camino
<b>E039</b>	Diabetes	Sulay Tovar Carro
<b>E041</b>	Epigenomics in Endocrinology and Nutrition	Ana Belén Crujeiras Martínez
<b>AC04</b>	Paediatric Endocrinology	Lidia Castro Feijoo

### 3. Structure

## A004 NEUROSCIENCES

**Leaders:** José Luis Labandeira García / Francisco Campos Pérez

<b>C004</b>	Neurobiology	Antonio Canedo Lamas
<b>C015</b>	Neurobiology of the Visual System	Francisco González García
<b>C018</b>	Experimental Neurology of Parkinson's Disease	José Luis Labandeira García
<b>C033</b>	Design, Synthesis and Medical Evaluation of Bioactive Compounds and New Materials	Antonio Mouriño Mosquera
<b>C034</b>	Physics of Polymers and Colloids	Silvia Barbosa Fernández
<b>C035</b>	R&D in Drugs Dose Forms and Delivery Systems	Ángel Concheiro Nine
<b>C036</b>	Magnetism and Nanotechnology (NanoMag)	José Rivas Rey
<b>C038</b>	Analytical Chemistry of Compounds of Alimentary, Environmental and Biological Interest	Antonia M. Carro Díaz
<b>C042</b>	Translational Stroke	Francisco Campos Pérez
<b>C043</b>	Neuroimaging and Biotechnology	Ramón Iglesias Rey
<b>C044</b>	Neuroaging	Tomás Sobrino Moreiras
<b>E014</b>	Prion Diseases	Jesús Rodríguez Requena
<b>E019</b>	Cell Stress	Juan Bautista Zalvide Torrente
<b>E029</b>	Cognitive Neuroscience	Fernando Díaz Fernández
<b>E049</b>	Gene Regulatory Control in Disease Laboratory	Ashwin Woodhoo
<b>E050</b>	Headaches and Craniofacial Pain	Rogelio Leira Muñoz
<b>E052</b>	Corneal neurodegeneration	Mª Isabel Lema Gesto
<b>E053</b>	Circadian And Glial Biology	Olga Barca Mayo
<b>AC03</b>	Critical Patient	Julién Álvarez Escudero
<b>AC22</b>	Movement Disorders	José María Prieto González

## A005 PLATFORMS AND METHODOLOGY

**Leaders:** Francisco Gude Sampedro / Irene Zarra Ferro

<b>C002</b>	Surgery: Complications and advances	Miguel Ángel Caínzos Fernández
<b>C013</b>	Epidemiology, Public Health and Evaluation of Health Services	Adolfo Figueiras Guzmán
<b>C017</b>	Research Methodology	Francisco Gude Sampedro
<b>C021</b>	Clinical Analysis	Santiago Rodríguez-Segade Villamarín
<b>C024</b>	Radiology	Miguel Souto Bayarri
<b>E002</b>	Biostatistics	Carmen Cadarso Suárez
<b>E034</b>	Clinical Pharmacology	Irene Zarra Ferro
<b>E046</b>	PARAQUASIL	José Blanco Méndez
<b>AC09</b>	Oral Sciences (OSRG)	Benjamín Martín Biedma
<b>AC10</b>	Healthy ageing, fragility and chronicity. Research in Primary Care	Juan Manuel Vázquez Lago
<b>AC13</b>	Dermatology and Craniofacial Pathology (DePaCra)	Pablo Ignacio Varela Centelles
<b>AC21</b>	Pharmacological Biochemistry	Fernando J Hermida Ameijeiras

### 3. Structure

## A006 CARDIOVASCULAR

*Leaders: José Ramón González Juanatey / Moisés Rodríguez Mañero*

<b>C003</b>	Hypertension	Antonio Pose Reino
<b>C016</b>	Cardiology	José Ramón González Juanatey
<b>C027</b>	Neuroendocrine Interactions in Rheumatic and Inflammatory Diseases (Neirid)	Oreste Gualillo
<b>C039</b>	Biodiscovery	Luis Miguel Botana López
<b>E001</b>	Cardiovascular Genetics	María José Brión Martínez
<b>E009</b>	Cellular and Molecular Cardiology	Francisca Lago Paz
<b>E030</b>	Platelet Proteomics	Ángel García Alonso
<b>E045</b>	Translational Cardiology	Sonia Eiras Penas
<b>AC05</b>	Pneumology	Luis Guillermo Valdés Cuadrado
<b>AC07</b>	Semergal	Sergio Cinza Sanjurjo
<b>AC19</b>	Vascular Research Group of Santiago	Diego Caicedo Valdés

## A007 INFECTOLOGY, INFLAMMATION AND VACCINES

*Leaders: Federico Martínón Torres / Rodolfo Gómez Bahamonde*

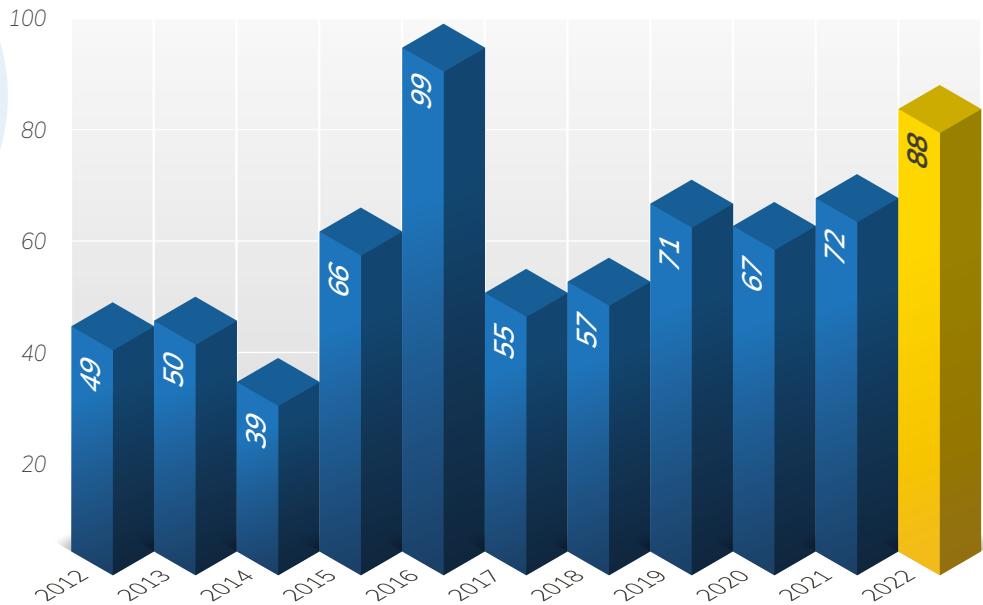
<b>C014</b>	Rheumatology	Eva Pérez Pampín
<b>C020</b>	Genetics, Vaccines, Infections & Pediatrics	Federico Martínón Torres
<b>C028</b>	Experimental and Observational Rheumatology	Antonio González Martínez-Pedrayo
<b>C040</b>	Oral Medicine and Surgery (OMEQUI)	Pedro Diz Dios
<b>E013</b>	Microbiology	María Luisa Pérez del Molino Bernal
<b>E015</b>	Population Genetics in Biomedicine	Antonio Salas Ellacuriaga
<b>E027</b>	Escherichia coli	Jorge Blanco Álvarez
<b>E038</b>	Musculoskeletal Pathology	Rodolfo Gómez Bahamonde
<b>E048</b>	Molecular and Cellular Gastroenterology	Javier Conde Aranda
<b>AC11</b>	Simulation, Life Support and Intensive Care	Antonio Rodríguez Núñez
<b>AC20</b>	Translational Research of Airway Diseases	Francisco J. González Barcala

# 4

## Recurrent training



## Defended PhD theses per year



**2022** **57** defended by female researchers

**46** directed by, at least, one female researcher

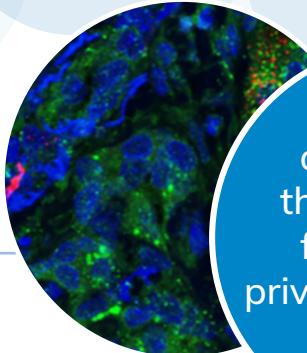
**26** with International mention

**17** defended by women

**16** directed by, at least, one woman

# 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 goal 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.

## 5. Innovation and transfer



Adopting the  
Public-Private  
Partnership  
Model

Disseminating  
our research

### Roche-CHUS

Precision Oncology Joint Unit.

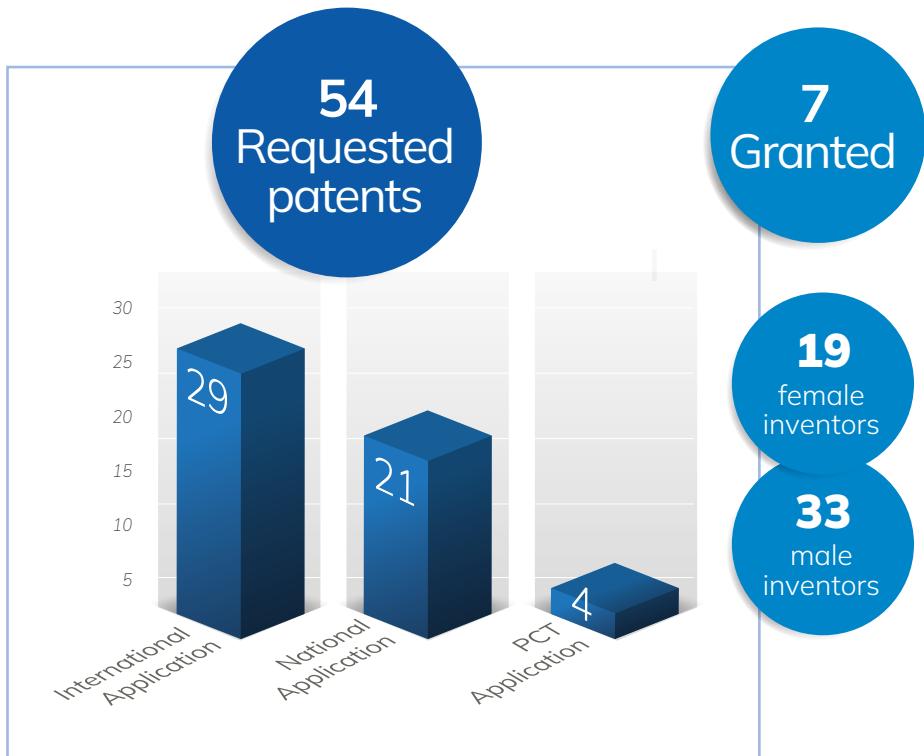


### BioINCUBATECH

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 to modernize the regional productive fabric. 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 collaborates since the beginning of this proposal and helped to create the project. We have 2 incubated projects.

## Intellectual property



## 5. Innovation and transfer

### Spin off



Personalized Medicine in Cardiology



New in 2022

DIVERSA



# Innovations

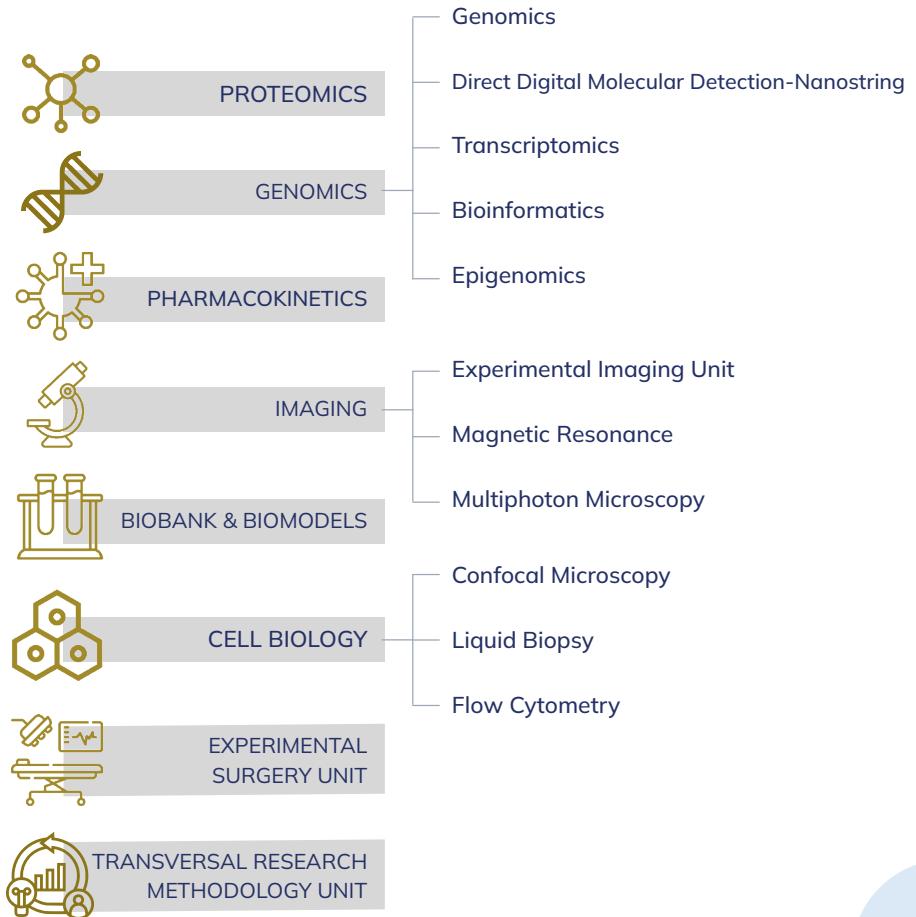
Software. Trademarks & apps

**7**  
trademarks

**19**  
intellectual  
property

# 6

## Platforms



## 6. Platforms

### Proteomics

Susana Belén Bravo López

[susana.belen.bravo.lopez@sergas.es](mailto: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.

### Liquid Biopsy Unit

Laura Muinelo Romay

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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  
[pablo.hervella.lorenzo@sergas.es](mailto:pablo.hervella.lorenzo@sergas.es)

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  
[ramon.iglesias.rey@sergas.es](mailto:ramon.iglesias.rey@sergas.es)

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.

## 6. Platforms

### Integrated Unit of Biobanks and Biomodels

Máximo Fraga;  
Rodolfo Gómez;  
Anxo Vidal

[biobanco.apa.santiago@sergas.es](mailto:biobanco.apa.santiago@sergas.es)  
[bbi3d@mpgroup.es](mailto:bbi3d@mpgroup.es)  
[cebeaga@usc.es](mailto:cebeaga@usc.es)  
[lydia.fraga.fontoira@sergas.es](mailto:lydia.fraga.fontoira@sergas.es)



### Molecular Imaging Unit

Pablo Aguiar Fernández  
[pablo.aguiar.fernandez@sergas.es](mailto:pablo.aguiar.fernandez@sergas.es)

With the aim of accelerating translational research by offering a comprehensive solution to the research community, currently the following Research Support Platforms dependent on SERGAS and the University of Santiago de Compostela (USC) are constituted as a unicentric integrated unit BIOBANK AND BIOMODELS:

- » Biobank CHUS – Máximo Fraga
- » Platform of Biovalidation, Biofabrication and 3D Printing (BBI-3D) – Rodolfo Gómez
- » Experimental Biomedicine Centre of the University of Santiago de Compostela (CEBEGA) – Anxo Vidal

It is a unique structure made up of these three units with the main objective of accelerating translational research. It is precisely the close relationship between the units that sustains its unique value and its potential to offer a broad portfolio of services to the research community

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

M<sup>a</sup> Luz Alonso Alonso

[maria.luz.alonso.alonso@sergas.es](mailto:maria.luz.alonso.alonso@sergas.es)

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.

## 6. Platforms

### Confocal Microscopy

Marta Picado Barreiro

[marta.picado.barreiro@sergas.es](mailto:marta.picado.barreiro@sergas.es)

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](mailto: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  
[anabelencrujeiras@hotmail.com](mailto:anabelencrujeiras@hotmail.com)  
[angel.diaz.lagares@sergas.es](mailto: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.

## Bioinformatics

Jorge Amigo Lechuga  
[jorge.amigo@usc.es](mailto: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.

## 6. Platforms

### Transcriptomics

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](mailto: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.

## Transversal Research Methodology Unit (UTAMI)

Ana Estany Gestal

[metodologia.idis.santiago@sergas.es](mailto:metodologia.idis.santiago@sergas.es)

The Research Methodology Transversal Unit (UTAMI) is a support unit specialized in research methodology, biostatistics, bioethics and regulation. UTAMI is coordinated from the Research Methodology Unit of IDIS Foundation, with the aim of promoting competitive research by offering research staff a highly qualified service, aimed at promoting three fundamental aspects of research: scientific publications, research projects and doctoral theses.



# 7

# Funding

## 7. Funding

Total

**43.577.655,29 €**

During 2022,  
**43.577.655,29 €** were  
raised in the following  
concepts: projects,  
human resources, transfer,  
donations, contracts,  
infrastructures, provision  
of services, agreements  
and studies.

**118**  
Projects  
**23.573.716,41 €**

**375**  
Contracts and  
provision of services  
**4.492.544,56 €**

**82**

Human resources  
9.574.362,91 €

**129**

Donations  
749.314,30 €

**3**

Infrastructure  
265.000,00 €

**217**

Studies (Clinical  
Trials, Other Studies)  
4.887.610,80 €

**1**

Transfer  
13.751,31 €

**4**

Mobility  
21.355,00 €

## 7. Funding



COMPETITIVE  
FUNDING

**33.434.434,32 €**



**118**  
Projects  
**23.573.716,41 €**

**28**  
Regional projects  
**4.365.149,31 €**

**82**  
National projects  
**16.396.644,54 €**

**8**  
International projects  
**2.811.922,56 €**

## 7. Funding

### Human resources

#### Agency



AXENCIA  
GALEGA DE  
INNOVACIÓN



#### Concept

GAIN Predoctoral Grant

Investigo grants

GAIN Postdoctoral Grant

Miguel Servet (I/II)

Río Hortega

PFIS / iPFIS

Sara Borrell

Predoctoral contracts training doctors

Ramón y Cajal

Technical Support Staff

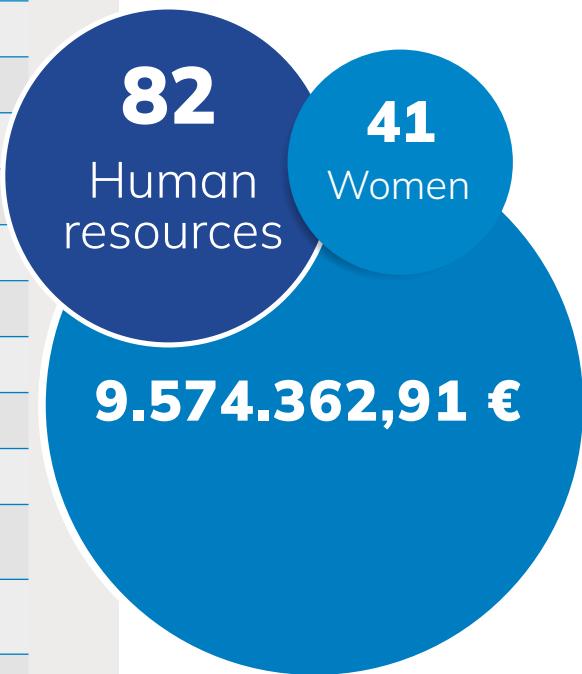
FPU

IDIS Grants

MSCA

Others

Number	Amount
20	2.060.000 €
33	1.075.252 €
8	757.404 €
3	718.450 €
6	420.000 €
3	329.034 €
1	95.000 €
9	804.614 €
2	472.700 €
1	42.600 €
4	194.573 €
9	731.732 €
2	669.255 €
5	1.203.748 €



# 8

## Strategic alliances



7

## RICORS

**RICORS REI**  
Inflammatory Disease  
Network

**RICORS2040**  
Kidney Disease Network



### RICORS-ICTUS

Instituto de Salud Carlos III



**RICORS-ICTUS**  
Cerebrovascular Diseases Network

**RICORS RIAPAd**  
Network of Research in Primary Care of Addictions

### RICORS SAMID

Primary Care Interventions to Prevent Maternal and Child Chronic Diseases of Perinatal and Developmental Origin



### RICORS RICAPPS

Research Network on Chronicity, Primary Care and Prevention and Health Promotion



### RICORS TERAV

Advanced Therapies Network

## 8. Strategic alliances

### 7 CIBER

#### Biomedical Research Networking Centres

CIBEROBN<sup>(1)</sup>, Physiopathology of Obesity and Nutrition

CIBERER, Rare Diseases

CIBERESP, Public Health and Epidemiology

CIBERCV, Cardiovascular Diseases

CIBERONC, Cancer

CIBERNED, Neurodegenerative Diseases

CIBERES, Respiratory Diseases

*ciber* | OBN  
*ciber* | ER  
*ciber* | ESP  
*ciber* | CV

*ciber* | ONC  
*ciber* | NED  
*ciber* | ES

<sup>(1)</sup> National Coordination IDIS

## 3 PLATFORMS



PLATAFORMA ISCIPI  
BIOBANCOS Y  
BIOMODELOS



Spanish  
Clinical  
Research  
Network  
ISCIPI



Plataforma de dinamización e innovación de las capacidades  
industriales del Sistema Nacional de Salud

BIOBANKS & BIOMODELS

SPANISH CLINICAL RESEARCH NETWORK

ITEMAS. Innovation in Medical & Health Technologies

## 3 INTERNATIONAL NETWORK



European Cooperation in  
Science and Technology



EATRIS, European Infrastructure for Translational Medicine

COST, European Cooperation in Science and Technology

EU OPENSCREEN - European High-Capacity Screening Network



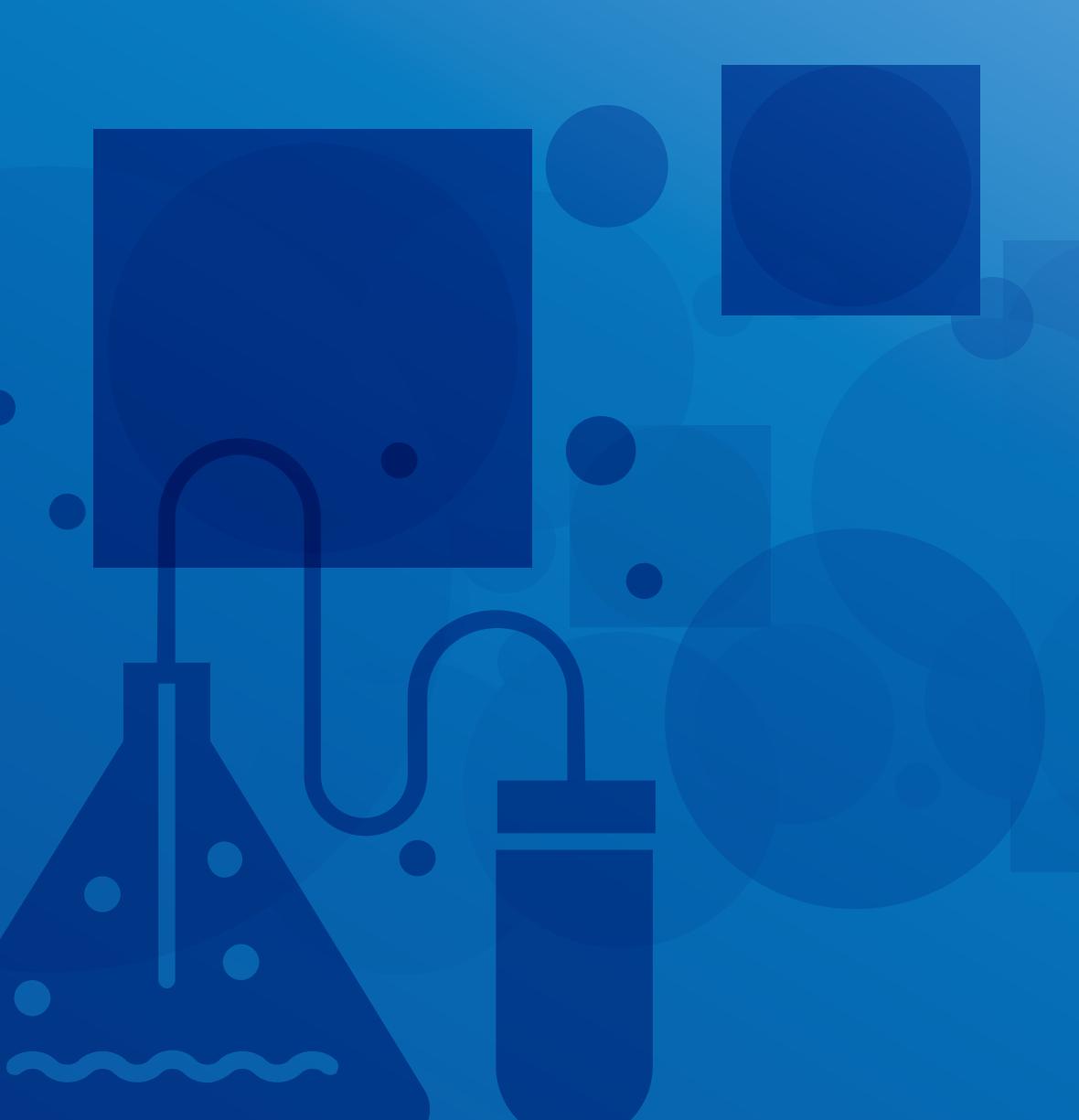
RECLIP<sup>(1)</sup>, Spanish Pediatric  
Clinical Trials Network



REGIC, Clinical Research  
Management Entities Network.

## 2 OTHER NETWORKS

<sup>(1)</sup> National Coordination IDIS



# 9 Areas

## 9. Areas

### Publications in 2022

Number



# Oncology

# Genetics and Systems Biology

# Endocrinology, Nutrition and Metabolism

# Neurosciences

# Platforms and Methodology

# Cardiovascular

# Infectiology, Inflammation and Vaccines

## 9. Areas

### Selected Publications

#### ONCOLOGY

1. Carreira R, Javier Aguado F, Hurtado-Nieves V, Blanco MG. Canonical and novel non-canonical activities of the Holliday junction resolvase Yen1. Nucleic Acids Res. 2022;50(1):259-280. doi:10.1093/nar/gkab1225
2. Sartiges M, Garcia-Colomer M, Iglesias C, et al. GCKIII (Germinal Center Kinase III) Kinases STK24 and STK25 (Serine/Threonine Kinase 24 and 25) Inhibit Cavernoma Development. Stroke. 2022;53(3):976-986. doi:10.1161/strokeaha.121.036940
3. Moscoso A, Silva-Rodriguez J, Manuel Aldrey J, et al. F-18-florbetapir PET as a marker of myelin integrity across the Alzheimer's disease spectrum. Eur J Nucl Med Mol Imaging. 2022;49(4):1242-1253. doi:10.1007/s00259-021-05493-y
4. Barbazan J, Majellaro M, Martinez AL, Brea JM, Sotelo E, Abal M. Identification of A(2B)AR as a potential target in colorectal cancer using novel fluorescent GPCR ligands. Biomed Pharmacother. 2022;153. doi:10.1016/j.biopha.2022.113408
5. Pereira-Veiga T, Bravo S, Gomez-Tato A, et al. Red Blood Cells Protein Profile Is Modified in Breast Cancer Patients. Mol Cell Proteomics. 2022;21(12):100435. doi:10.1016/j.mcpro.2022.100435

## GENETICS AND SYSTEMS BIOLOGY

1. Iglesias-Garcia J, Larino-Noia J, Nieto L, et al. Pancreatic Elastography Predicts Endoscopic Secretin-Pancreatic Function Test Result in Patients With Early Changes of Chronic Pancreatitis: A Prospective, Cross-Sectional, Observational Study. *Am J Gastroenterol.* 2022;117(8):1264-1268. doi:10.14309/ajg.00000000000001846
2. Tubio-Fungueirino M, Alemany-Navarro M, Alonso P, et al. Neuropsychological performance and predictors of pharmacological treatment response in obsessive compulsive disorder. *J Affect Disord.* 2022;317:52-58. doi:10.1016/j.jad.2022.08.063
3. Facal F, Arrojo M, Paz E, Paramo M, Costas J. Association between psychiatric hospitalizations of patients with schizophrenia and polygenic risk scores based on genes with altered expression by antipsychotics. *Acta Psychiatr Scand.* 2022;146(2):139-150. doi:10.1111/acps.13444
4. Alateyat H, Cruz S, Cernadas E, et al. A Machine Learning Approach in Autism Spectrum Disorders: From Sensory Processing to Behavior Problems. *Front Mol Neurosci.* 2022;15. doi:10.3389/fnmol.2022.889641
5. Olloquequi J, Castro-Santos P, Diaz-Pena R. Pharmacogenetic Variation and Its Clinical Relevance in a Latin American Rural Population. *Int J Mol Sci.* 2022;23(19). doi:10.3390/ijms231911758

## 9. Areas

# ENDOCRINOLOGY, NUTRITION AND METABOLISM

1. Gonzalez-Garcia I, Urisarri A, Nogueiras R, Dieguez C, Couce ML, Lopez M. An updated view on human neonatal thermogenesis. *Nat Rev Endocrinol.* 2022;18(5):263-264. doi:10.1038/s41574-022-00642-1
2. Fondevila MF, Fernandez U, Heras V, et al. Inhibition of carnitine palmitoyltransferase 1A in hepatic stellate cells protects against fibrosis. *J Hepatol.* 2022;77(1):15-28. doi:10.1016/j.jhep.2022.02.003
3. Lima N da S, Fondevila MF, Novoa E, et al. Inhibition of ATG3 ameliorates liver steatosis by increasing mitochondrial function. *J Hepatol.* 2022;76(1):11-24. doi:10.1016/j.jhep.2021.09.008
4. Pena-Leon V, Folgueira C, Barja-Fernandez S, et al. Prolonged breastfeeding protects from obesity by hypothalamic action of hepatic FGF21. *Nat Metab.* 2022;4(7):901-+. doi:10.1038/s42255-022-00602-z
5. Seoane-Collazo P, Rial-Pensado E, Estevez-Salguero A, et al. Activation of Hypothalamic AMP-Activated Protein Kinase Ameliorates Metabolic Complications of Experimental Arthritis. *Arthritis & Rheumatology.* 2022;74(2):212-222. doi:10.1002/art.41950

## NEUROSCIENCES

1. Mishra A, Malik R, Hachiya T, et al. Stroke genetics informs drug discovery and risk prediction across ancestries (vol 611, pg 115, 2022). *Nature*. 2022;611(7934):115-. doi:10.1038/s41586-022-05492-5
2. Ibanez L, Heitsch L, Carrera C, et al. Multi-ancestry GWAS reveals excitotoxicity associated with outcome after ischaemic stroke. *BRAIN*. 2022;145(7):2394-2406. doi:10.1093/brain/awac080
3. Correa-Paz C, Navarro Poupart MF, Polo E, et al. Sonosensitive capsules for brain thrombolysis increase ischemic damage in a stroke model. *J Nanobiotechnology*. 2022;20(1). doi:10.1186/s12951-022-01252-9
4. Zaghami A, Perez-Mato M, Dopico-Lopez A, Candamo-Lourido M, Campos F, Gauthier MA. New Perspectives for Developing Therapeutic Bioconjugates of Metabolite-Depleting Enzymes: Lessons Learned Combating Glutamate Excitotoxicity. *Biomacromolecules*. 2022;23(5):1864-1872. doi:10.1021/acs.biomac.2c00117
5. Iglesias-Rey R, da Silva-Candal A, Rodriguez-Yanez M, et al. Neurological Instability in Ischemic Stroke: Relation with Outcome, Latency Time, and Molecular Markers. *Transl Stroke Res*. 2022;13(2):228-237. doi:10.1007/s12975-021-00924-2

## 9. Areas

### PLATFORMS AND METHODOLOGY

1. Candal-Pedreira C, Ross JS, Ruano-Ravina A, Egilman DS, Fernandez E, Perez-Rios M. Retracted papers originating from paper mills: cross sectional study. *Bmj-British Med J.* 2022;379. doi:10.1136/bmj-2022-071517
2. Taboada M, Rodriguez N, Manuel Varela P, et al. Effect of high versus low dose of dexamethasone on clinical worsening in patients hospitalised with moderate or severe COVID-19 pneumonia: an open-label, randomised clinical trial. *Eur Respir J.* 2022;60(2). doi:10.1183/13993003.02518-2021
3. Varela-Eirin M, Carpintero-Fernandez P, Guitian-Caamano A, et al. Extracellular vesicles enriched in connexin 43 promote a senescent phenotype in bone and synovial cells contributing to osteoarthritis progression. *Cell Death Dis.* 2022;13(8). doi:10.1038/s41419-022-05089-w
4. Mallah N, Pardo-Seco J, Lopez-Perez LR, et al. Effectiveness of COVID-19 vaccine booster in the general population and in subjects with comorbidities. A population-based study in Spain. *Environ Res.* 2022;215. doi:10.1016/j.envres.2022.114252
5. Rodriguez-Ruiz E, Campelo-Izquierdo M, Boga Veiras P, et al. Impact of the Coronavirus Disease 2019 Pandemic on Moral Distress Among Nurses and Physicians in Spanish ICUs. *Crit Care Med.* 2022;50(5):E487-E497. doi:10.1097/ccm.0000000000005434

## CARDIOVASCULAR

1. Seoane-Collazo P, Rial-Pensado E, Estevez-Salguero A, et al. Activation of Hypothalamic AMP-Activated Protein Kinase Ameliorates Metabolic Complications of Experimental Arthritis. *Arthritis & Rheumatology*. 2022;74(2):212-222. doi:10.1002/art.41950
2. Rey-Aldana D, Mazon-Ramos P, Portela-Romero M, et al. Longer-Term Results of a Universal Electronic Consultation Program at the Cardiology Department of a Galician Healthcare Area. *Circ Cardiovasc Qual Outcomes*. 2022;15(1):e008130. doi:10.1161/circoutcomes.121.008130
3. Vazquez-Agra N, Cruces-Sande A, Mendez-Alvarez E, et al. Correlation between Blunted Nocturnal Decrease in Diastolic Blood Pressure and Oxidative Stress: An Observational Study. *ANTIOXIDANTS*. 2022;11(12). doi:10.3390/antiox11122430
4. Moran LA, Di Y, Sowa MA, et al. Katacine Is a New Ligand of CLEC-2 that Acts as a Platelet Agonist. *Thromb Haemost*. 2022;122(08):1361-1368. doi:10.1055/a-1772-1069
5. Ait Eldjoudi D, Ruiz-Fernandez C, Gonzalez-Rodriguez M, et al. Analgesic and antiinflammatory effects of Nigella orientalis L. seeds fixed oil: Pharmacological potentials and molecular mechanisms. *Phyther Res*. 2022;36(3):1372-1385. doi:10.1002/ptr.7400

## 9. Areas

# INFECTOLOGY, INFLAMMATION AND VACCINES

1. Trastoy R, Maria Gonzalez-Alba J, Soriano V, et al. The unexpected high prevalence of HBV subgenotype D4 in patients with chronic hepatitis B in Galicia, a northwestern Spanish region, reflects strong links with Latin America. *J Clin Virol.* 2022;153. doi:10.1016/j.jcv.2022.105195
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## 9. Areas

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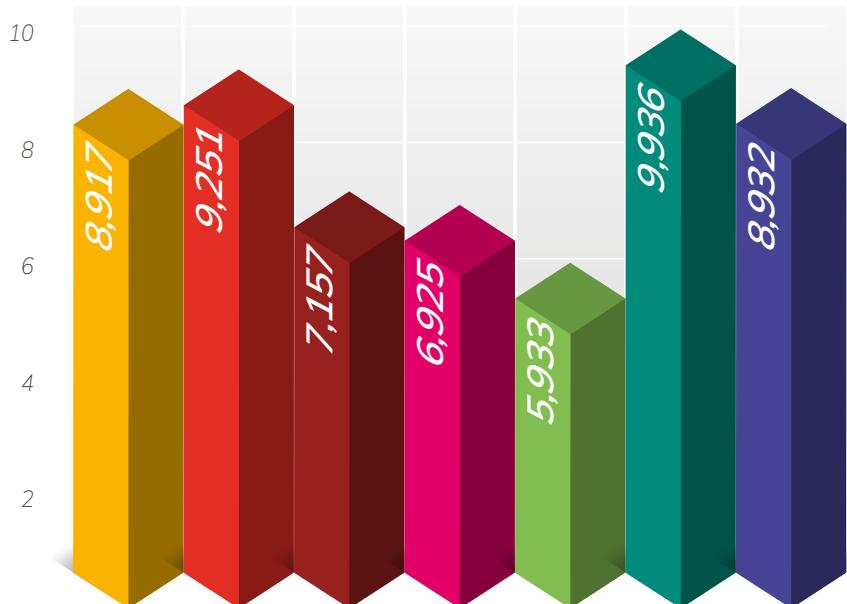
█ Oncology

█ Genetics and Systems Biology

█ Endocrinology, Nutrition and Metabolism

█ Neurosciences

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- █ Platforms and Methodology
- █ Infectology, Inflammation and Vaccines
- █ Cardiovascular

## 9. Areas

Theses



Patents



## Projects

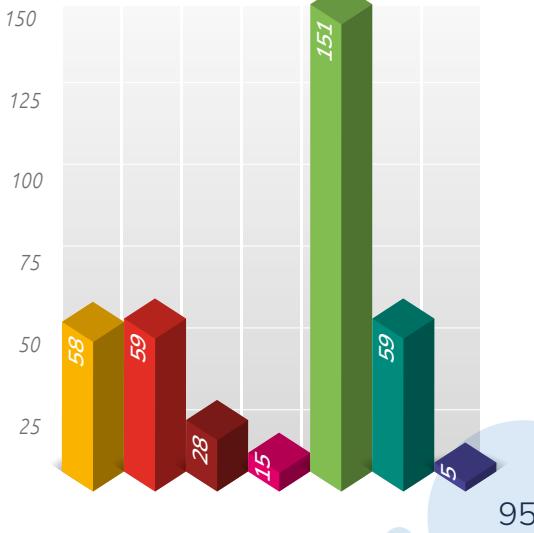


- █ Oncology
- █ Genetics and Systems Biology
- █ Endocrinology, Nutrition and Metabolism
- █ Neurosciences
- █ Platforms and Methodology
- █ Cardiovascular
- █ Infectology, Inflammation and Vaccines

## Clinical Studies



## Contracts & Services



# 10

## Communication

### IDIS Website



### Newspapers



### Posts on Social Networks



Twitter



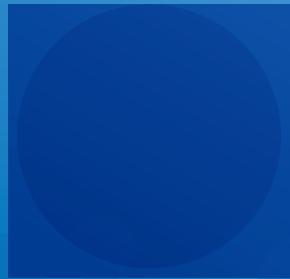
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Facebook



# 11

## Balance

## 11. Balance

ACTIVO	NOTAS	31/12/2022	31/12/2021
<b>A) ACTIVO NO CORRIENTE</b>		<b>13.367.871,13 €</b>	<b>13.207.467,87 €</b>
I. Inmovilizado intangible	5	27.088,39 €	46.780,14 €
3. Patentes, licencias, marcas y similares		0,00 €	0,00 €
5. Aplicaciones informáticas		27.088,39 €	46.780,14 €
<b>III. Inmovilizado material</b>	<b>6</b>	<b>2.294.678,40 €</b>	<b>2.630.402,95 €</b>
1. Terrenos y construcciones		1.375.201,14 €	1.466.411,25 €
2. Instalaciones técnicas y otro inmovilizado material		919.477,26 €	1.163.991,70 €
3. Inmovilizado en cursos y anticipos		0,00 €	0,00 €
<b>VI. Inversiones financieras a largo plazo</b>	<b>8.1</b>	<b>11.046.104,34 €</b>	<b>10.530.284,78 €</b>
1. Instrumentos de Patrimonio		11.045.204,34 €	10.529.384,78 €
3. Valores representativos de deuda		0,00 €	0,00 €
5. Otros activos financieros		900,00 €	900,00 €
<b>B) ACTIVO CORRIENTE</b>		<b>38.985.558,10 €</b>	<b>33.495.549,84 €</b>
I. Usuarios y otros deudores de la actividad propia	9	1.318.707,33 €	1.658.639,70 €
II. Existencias		2.729,70 €	0,00 €
6. Anticipos a proveedores		2.729,70 €	0,00 €
<b>III. Deudores comerciales y otras cuentas a cobrar</b>	<b>9</b>	<b>9.526.331,17 €</b>	<b>11.954.574,33 €</b>
3. Deudores varios		600,00 €	0,00 €
4. Personal		0,00 €	0,00 €
5. Activos por impuesto corriente		0,00 €	0,00 €
6. Otros créditos con las Administraciones Pública		9.525.731,17 €	11.954.574,33 €
<b>V. Inversiones financieras a corto plazo</b>	<b>8.1</b>	<b>0,00 €</b>	<b>0,00 €</b>
2. Créditos a entidades		0,00 €	0,00 €
3. Valores representativos de deuda		0,00 €	0,00 €
5. Otros activos financieros		0,00 €	0,00 €
<b>VI. Peridiodificaciones a corto plazo</b>		<b>22.534,12 €</b>	<b>31.362,41 €</b>
<b>VII Efectivo y otros activos líquidos equivalentes</b>	<b>11</b>	<b>28.115.255,78 €</b>	<b>19.850.973,40 €</b>
1. Tesorería		28.115.255,78 €	19.850.973,40 €
2. Otros activos líquidos equivalentes		0,00 €	0,00 €
<b>TOTAL ACTIVO (A + B)</b>		<b>52.353.429,23 €</b>	<b>46.703.017,71 €</b>

<b>PATRIMONIO NETO Y PASIVO</b>		<b>31/12/2022</b>	<b>31/12/2021</b>
<b>A) PATRIMONIO NETO</b>		<b>7.267.017,80 €</b>	<b>8.258.282,57 €</b>
<b>A-1) Fondos propios</b>	<b>12</b>	<b>6.479.077,24 €</b>	<b>6.336.498,61 €</b>
I. Dotación fundacional / Fondo social		153.952,45 €	153.952,45 €
Dotación fundacional / Fondo social		153.952,45 €	153.952,45 €
II. Reservas		<b>6.182.546,16 €</b>	<b>6.134.416,42 €</b>
Otras reservas		6.182.546,16 €	6.134.416,42 €
IV. Excedente del ejercicio		<b>142.578,63 €</b>	<b>48.129,74 €</b>
<b>A-2) Ajustes por cambio de valor</b>		<b>-963.287,68 €</b>	<b>369.932,10 €</b>
Activos financieros disponibles para la venta		-963.287,68 €	369.932,10 €
<b>A-3) Subvenciones, donaciones y legados recibidos</b>	<b>17</b>	<b>1.751.228,24 €</b>	<b>1.551.851,86 €</b>
I. Subvenciones		195.451,44 €	215.551,99 €
II. Donaciones y legados		1.555.776,80 €	1.336.299,87 €
<b>B) PASIVO NO CORRIENTE</b>		<b>547.086,30 €</b>	<b>1.058.377,96 €</b>
I. Provisiones a largo plazo	<b>15</b>	<b>547.086,30 €</b>	<b>1.058.377,96 €</b>
1. Obligaciones por prestaciones a largo plazo al personal		547.086,30 €	1.058.377,96 €
II. Deudas a largo plazo	<b>8.2</b>	<b>0,00 €</b>	<b>0,00 €</b>
5. Otros pasivos financieros		0,00 €	0,00 €
<b>C) PASIVO CORRIENTE</b>		<b>44.539.325,13 €</b>	<b>37.386.357,18 €</b>
I. Provisiones a corto plazo	<b>15</b>	<b>13.983.665,35 €</b>	<b>11.718.542,64 €</b>
II. Deudas a corto plazo	<b>8.2</b>	<b>26.674.633,34 €</b>	<b>19.573.226,57 €</b>
3. acreedores por arrendamiento financiero		0,00 €	0,00 €
5. Otras deudas a corto plazo		26.674.633,34 €	19.573.226,57 €
IV. Beneficiarios - Acreedores	<b>10</b>	<b>0,00 €</b>	<b>0,00 €</b>
V. Acreedores comerciales y otras cuentas a pagar	<b>10</b>	<b>3.881.026,44 €</b>	<b>6.094.587,97 €</b>
1. Proveedores		25.944,36 €	78.928,72 €
3. Acreedores varios		40.526,42 €	40.664,10 €
4. Personal (remuneraciones pendientes de pago)		90.996,26 €	272.133,12 €
6. Otras deudas con las Administraciones Públicas		3.723.559,40 €	5.702.862,03 €
7. Anticipos recibidos por pedidos		0,00 €	0,00 €
<b>TOTAL PATRIMONIO NETO Y PASIVO (A + B + C)</b>		<b>52.353.429,23 €</b>	<b>46.703.017,71 €</b>





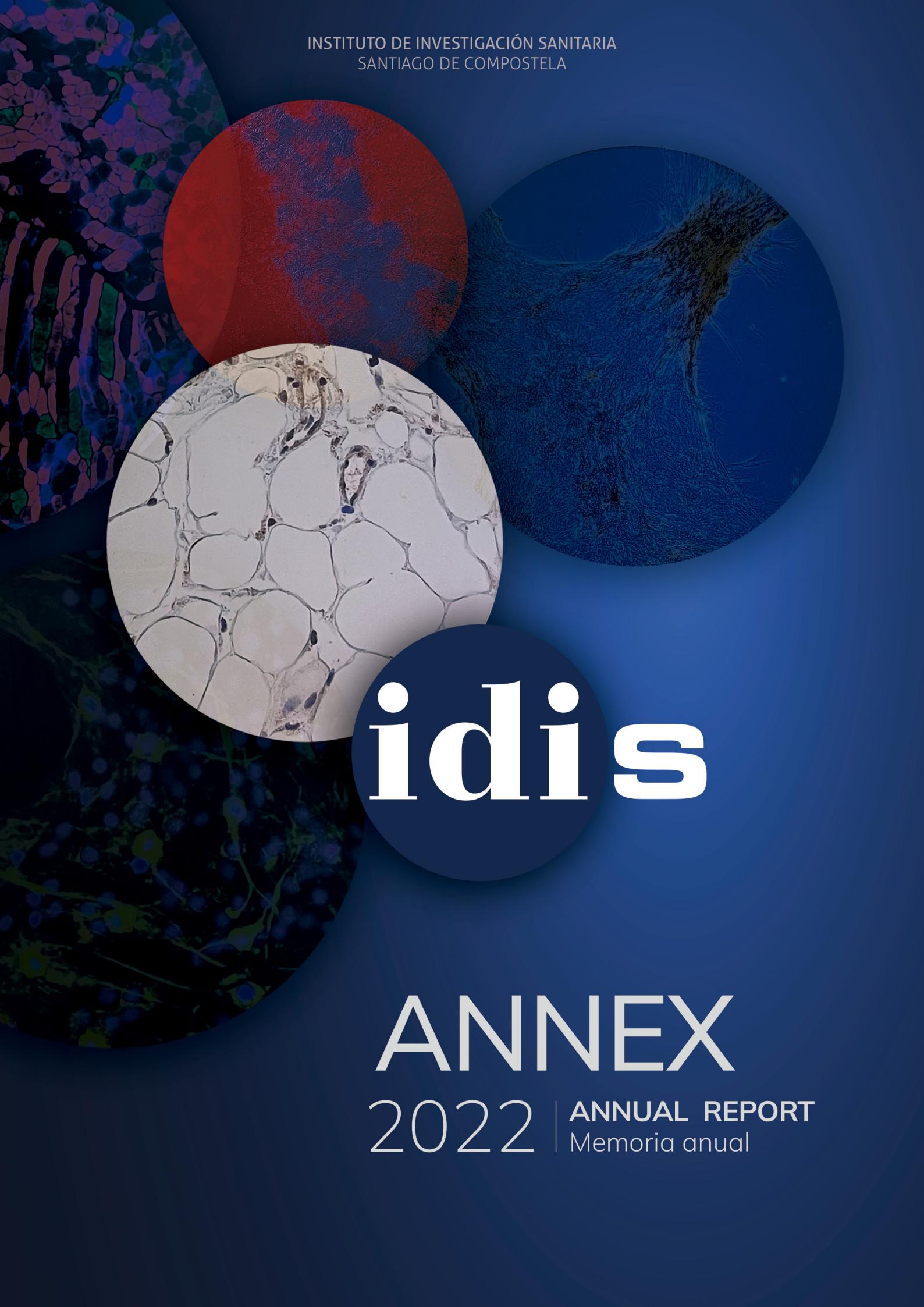
Health Research Institute. Santiago de Compostela  
ANNUAL REPORT 2022



# INSTITUTO DE INVESTIGACIÓN SANITARIA SANTIAGO DE COMPOSTELA



XUNTA DE GALICIA  
CONSELLERÍA DE SANIDADE

A collage of various scientific images, including micrographs of tissue sections, blood vessels, and cellular structures, set against a dark blue background.

INSTITUTO DE INVESTIGACIÓN SANITARIA  
SANTIAGO DE COMPOSTELA

**idis**

**ANNEX**

**2022 | ANNUAL REPORT**  
Memoria anual



# 01

# ORIGINAL PAPERS

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# 03

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**ANNEX. ANNUAL REPORT 2022**