



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

José Ramón Castro Ruibal Technical Management

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APPROVAL

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

idis



O IDIS, como eixe da investigación sanitaria galega, é un dos grandes institutos de investigación biomédica de España, cunha crecente captación de recursos e produción 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 abrirnos 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 maior visibilidade. de dar unha que trataremos de impulsar neste novo ano. A nosa necesidade máis urxente, 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 conseguilo 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 5th in the number of projects captured. 4th in the average financial capture per project and 2nd in terms of the percentage of success. The IDIS also stands out for its capacity for innovation and transfer, it is an incubator biotechnological for 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.

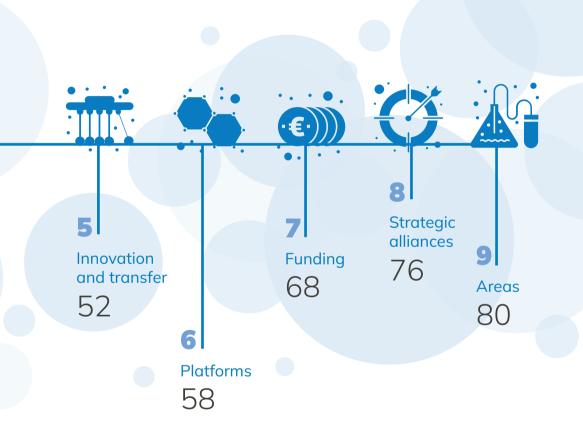
Despite our new website, which we launched this year, we still have the pending issue of giving greater visibility to the institute, which we are developing this 2023. Our most pressing need, research spaces. Having modern facilities and maintaining more direct communication with the research staff to 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.



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

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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 €

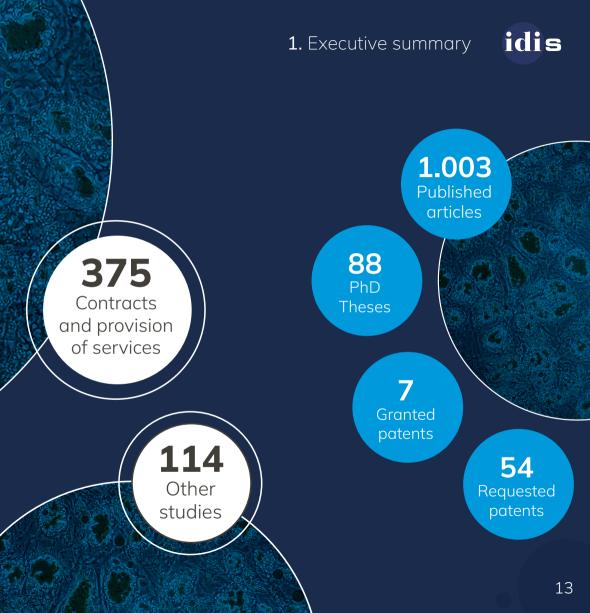
Total funds raised

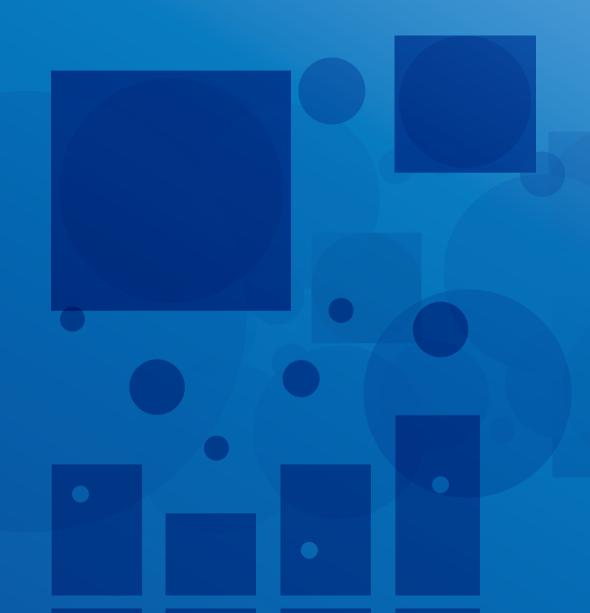
118 Projects

> 129 Donations

103 Clinical trials

82 Staff contracts





Oncology	Genetics and Systems Biology	Endocrinology, Nutrition and Metabolism	Neurosciences	Platforms and Methodology
243	146	131		141
	Z	***	72/5	
19	11	15	20	12

Cardiovascular Infectology, Inflammation and Vaccines Infectology Inflammation Inflammation Infectology Infectology Inflammation Infectology Infectology Inflammation Infectology Inflammation Infectology Infectology Inflammation Infectology Infectolog

technical staff

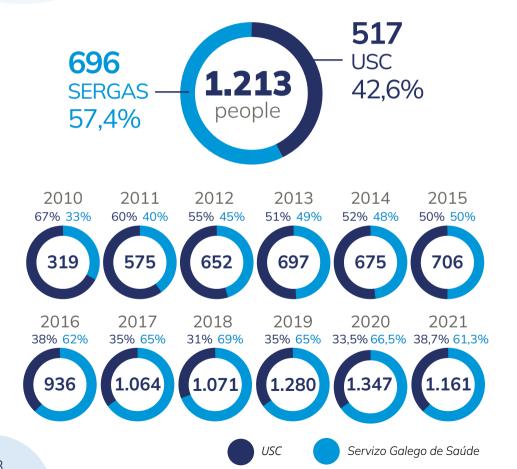
30 Transversal

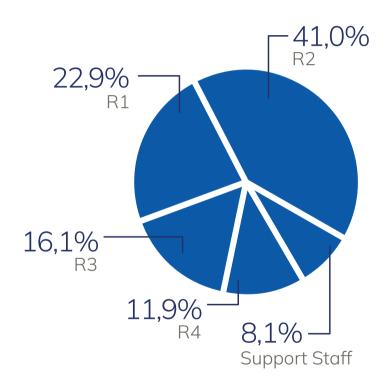
30 Halisversar

11 11

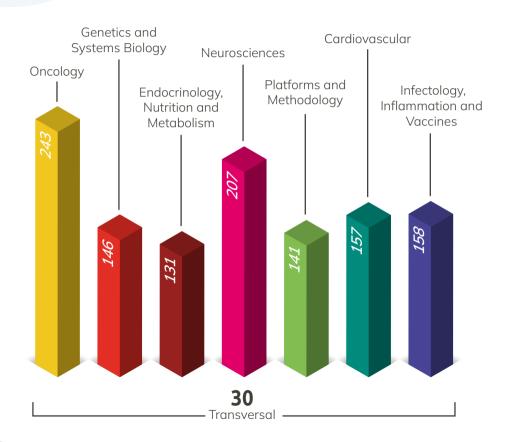
1 **99** groups

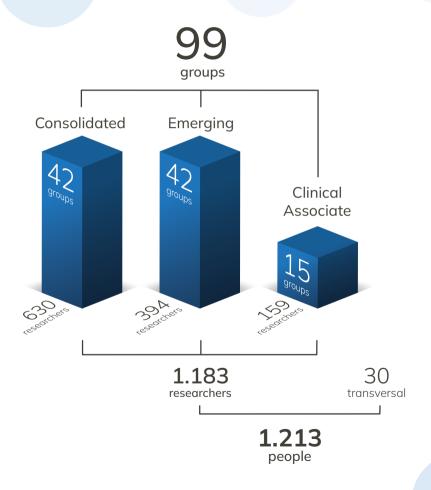
History of a joint venture: human resources in figures





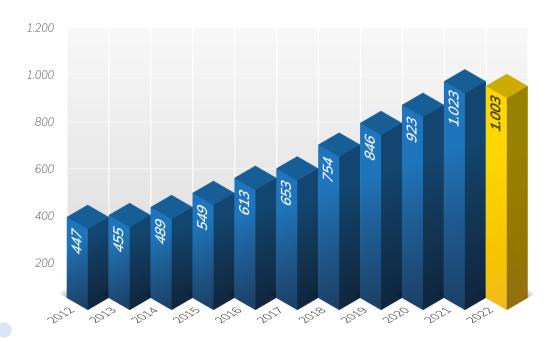
Number of researchers per area





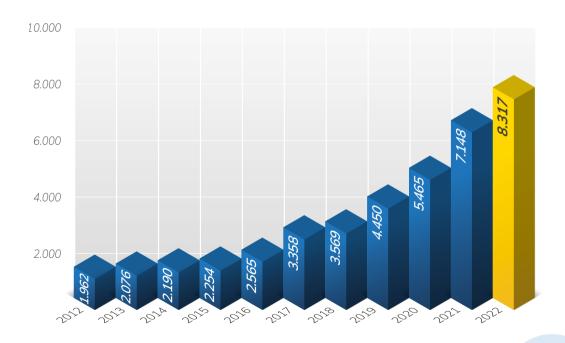
Number of published articles per year

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.



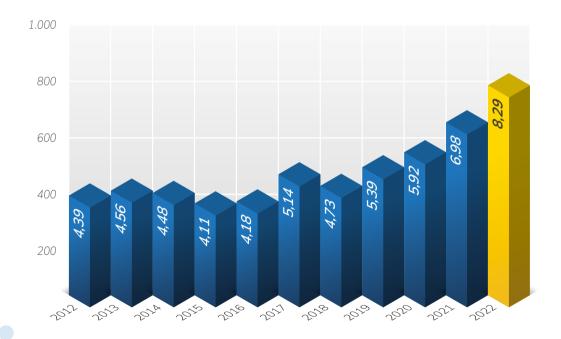
Cumulative impact factor

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



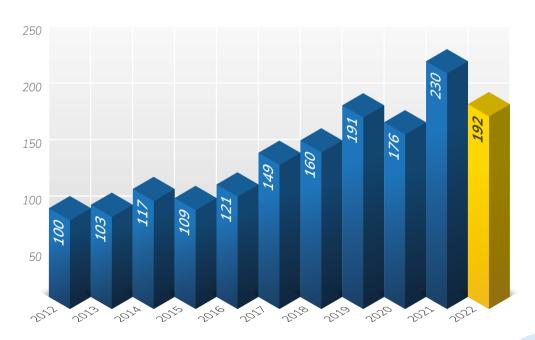
Average impact factor

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

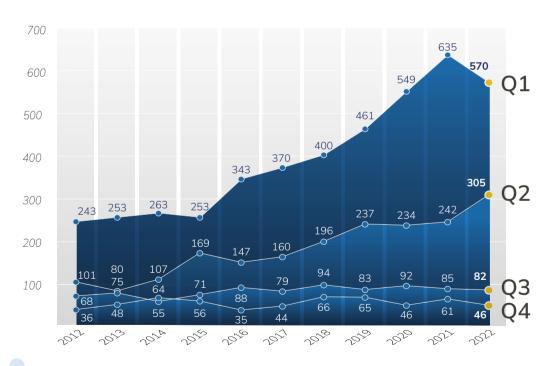


Number of articles published in journals ranked in the first decile

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.

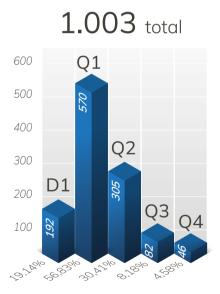


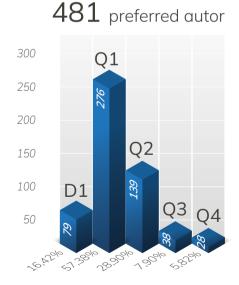
Number of published articles per year, by journal quartile



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.





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.



Summary of the funding raised in 2022

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

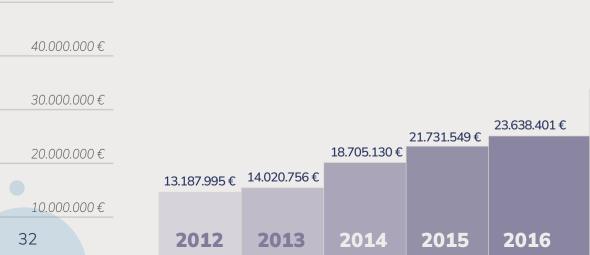
During 2022, funding raised in competitive calls for research projects, the recruitment of staff, infrastructures, agreements, contracts and provision of services, donations, clinical trials and observational studies generated 43.577.655,29 € which will complement the resources of the institutions that take part in IDIS.



50.000.000€

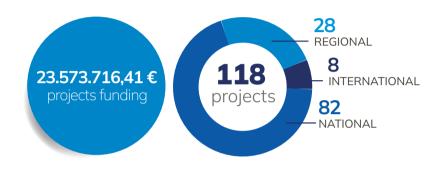
Amount raised, 2022

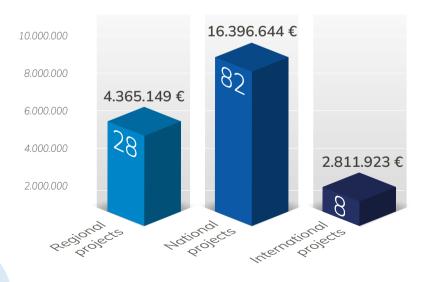
43.577.655,29 €



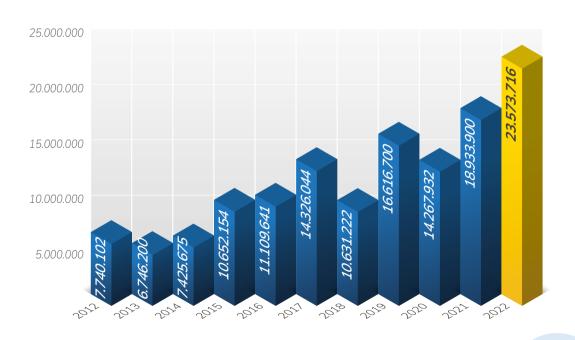


Number and amount of funds raised in 2022 for projects by location

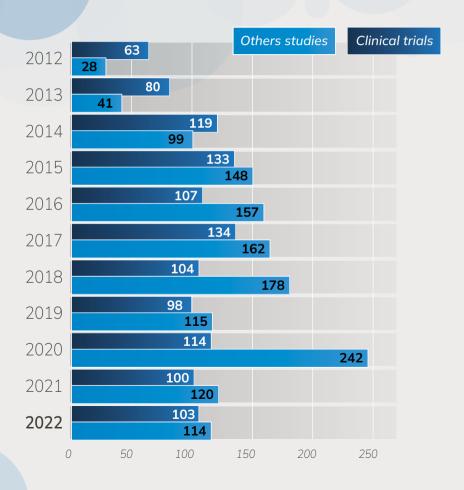




Project funding per year



Number of clinical trials and other studies



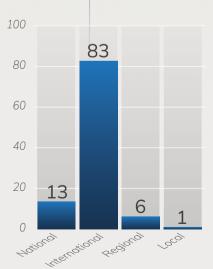


A maioría da xente pensa que é o intelecto o que fai a un gran científico. Están equivocados: é o caracter

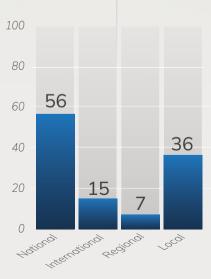


Preguntate
ao lugar on
Walt Disney

103 clinical trials

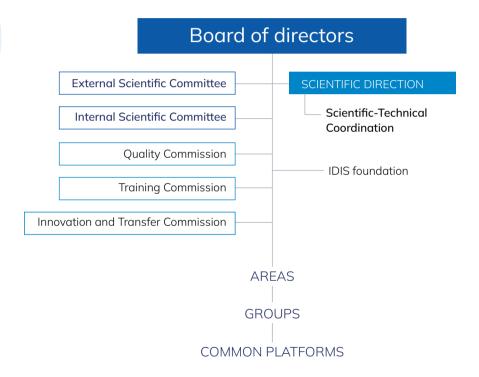


114 others studies



3 Structure





3. Structure



Chairs

Julián Álvarez Escudero Ángel Carracedo Álvarez Enrique Domínguez Muñoz Antonio Fernández Campa 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 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 Miquel López Pérez 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

3. Structure

Quality Commission

President

Miriam Cebey López

Secretary

Iria Louzao Pernas

Mª Mar Lale Candal Isabel Lista García Mabel Sampedro Parada

Innovation and Transfer Commission

President

Anxo Fernández Ferreiro

Secretary

José Ramón Castro Ruibal

Luis León Mateos Cristina Fernández Pérez María de la Fuente Freire Moisés Rodríguez Mañero José Brea Floriani Adrián Mosquera Orgeira Mabel Sampedro Parada

Training Commission

President

Manuel Collado Rodríguez

Secretary

José Ramón Castro Ruibal

Jorge Barbazán García

Sonia Eiras Penas

Ana Estany Gestal

Anxo Fernández Ferreiro

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

Leaders: Rafael López López / José Manuel Castro Tubío

C010	Genetics of Human Diseases	Fernando Domínguez Puente
C011	Pathology	José Ramón Antúnez López
C025	NANOBIOFAR	María José Alonso Fernández
C030	Traslational Medica <mark>l Oncology</mark>	Rafael López López
C032	Molecular Imaging	Pablo Aguiar Fernández
E004	Molecular Oncology	Jos <mark>é Anto</mark> nio Costoya Puente
E018	Cell Cycle and Onco <mark>log</mark> y (CiClo <mark>n)</mark>	Anxo Vidal Figueroa
E028	Cell senescence, can <mark>cer and aging</mark>	Ma <mark>nuel Colla</mark> do Rodríguez
E031	Oncologic Endocrinol <mark>ogy</mark>	Ro <mark>mán P</mark> érez Fernández
E032	Preclinical Animal Mo <mark>del</mark> s	Laura Sánchez Piñón
E033	Viruses and cancer	María del Carmen Rivas Vázquez
E037	DNA Repair and G <mark>eno</mark> me Inte <mark>grity</mark>	Miguel González Blanco
E040	Mobile Genome <mark>s and D</mark> isease	José Manuel Castro Tubío
E043	Medical Phy <mark>sics and Biomathe</mark> matics	Juan Pardo Montero
E044	Nano-On <mark>cology and Trans</mark> lational Therapy Unit	María de la Fuente Freire
E051	Oral and maxillofacial medical- surgicalpathology	Mario Pérez Sayáns
AC01	Lymphoproliferative Disorders	José Luis Bello López
AC06	Translational ophthalmology	María José Blanco Teijeiro
AC08	Surgical Oncology	Manuel Bustamante Montalvo

3. Structure

A002 GENETICS AND SYSTEMS BIOLOGY

Leaders: Ángel Carracedo Álvarez / María Isabel Loza García

C009 Translational Research in Digestive Diseases Juan Enrique Domínguez Muñoz C026 BIOFARMA María Isabel Loza García C041 Cancer Genetics and Rare Diseases Ana Paula Vega Gliemmo E012 Comparative Genomics of Human Parasites Julio Manuel Maside Rodríquez
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F012 Comparative Genomics of Human Parasites Julio Manuel Maside Rodríguez
Comparative denomics of right and are made made reading acc
E020 Psychiatric Genetics Javier Costas Costas
E021 Genetics and Developmental Biology of Kidney Miguel Ángel García González Diseases
E035 Genetics of Gastrointestinal Tumours Clara Ruiz Ponte
E036 Stem Cells and Human Diseases Miguel Ángel Fidalgo Pérez
E047 Cancer Genetics and Epidemiology Group Manuela Gago Domínguez
E054 Epitranscriptomics and aging Diana Guallar Artal

A003 ENDOCRINOLOGY, NUTRITION AND METABOLISM

Leaders: Miguel A. Martínez Olmos / Luisa Mª Seoane Camino

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
C037	Trace Elements, Spectroscopy and Speciation	Pilar Bermejo Barrera
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	Lidia Castro Feijoo

3. Structure

A004 NEUROSCIENCES

Leaders: José Luis Labandeira García / Francisco Campos Pérez

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
C033	Design, Synthesis and Medical Evaluation of Bioactive Compounds and New Materials	Antonio Mouriño Mosquera
C034	Physics of Polymers and Colloids	Silvia Barbosa Fernández
C035	R&D in Drugs Dose Forms and Delivery Systems	Ángel Concheiro Nine
C036	Magnetism and Nanotechnology (NanoMag)	José Rivas Rey
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
AC22	Movement Disorders	José María Prieto González

A005 PLATFORMS AND METHODOLOGY

Leaders: Francisco Gude Sampedro / Irene Zarra Ferro

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 Cadarso Suárez
E034	Clinical Pharmacology	Irene Zarra Ferro
E046	PARAQUASIL	José Blanco Méndez
AC09	Oral Sciences (OSRG)	Benjamín Martín Biedma
AC10	Healthy ageing, fragility and chronicity. Research in Primary Care	Juan Manuel Vázquez Lago
AC13	Dermatology and Craniofacial Pathology (DePaCra)	Pablo Ignacio Varela Centelles
AC21	Pharmacological Biochemistry	Fernando J Hermida Ameijeiras

3. Structure

A006 CARDIOVASCULAR

Leaders: José Ramón González Juanatey / Moisés Rodríguez Mañero

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

A007 INFECTOLOGY, INFLAMMATION AND VACCINES

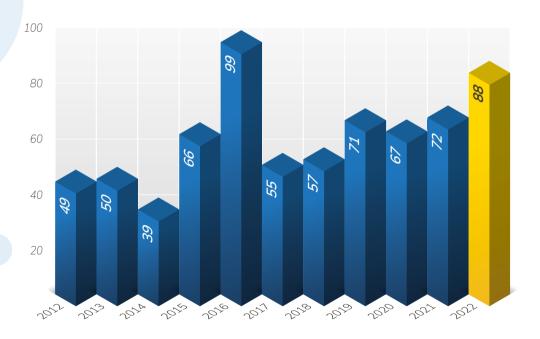
Leaders: Federico Martinón Torres / Rodolfo Gómez Bahamonde

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

Recurrent training



Defended PhD theses per year



Innovation and transfer



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



Precision Oncology Joint Unit.



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 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.

Intelectual property



5. Innovation and transfer

Spin off



























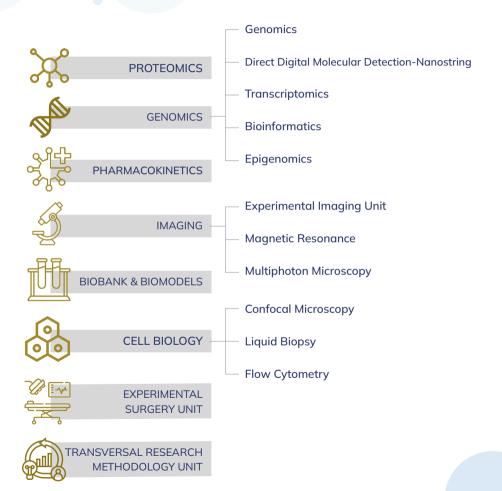


Innovations

Software. Trademarks & apps

7 trademarks 19
intellectual property





6. Platforms

Proteomics

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.

Liquid Biopsy Unit

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.

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

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

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 bbi3d@mpgroup.es cebega@usc.es lydia.fraga.fontoira@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

Molecular Imaging Unit

Pablo Aguiar Fernández pablo.aguiar.fernandez@sergas.es

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

Mª Luz Alonso Alonso 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 de Galicia. It has rat and of the Xunta 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

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

anabelencrujeiras@hotmail.com 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

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

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

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.



Funding

7. Funding

Total

REUNIÓNS S

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



SALA DE REUNIÓNS

375Contracts and provision of services 4.492.544,56 €







118Projects **23.573.716,41** €

28Regional projects
4.365.149,31 €

82National projects
16.396.644,54 €

8 International projects 2.811.922,56 €

7. Funding

Human resources

Agency	Concept
AXENCIA GALEGA DE INNOVACIÓN	GAIN Predoctoral Grant
	Investigo grants
	GAIN Postdoctoral Grant
Instituto de Salud Carlos III	Miguel Servet (I/II)
	Río Hortega
	PFIS / iPFIS
	Sara Borrell
	Predoctoral contracts training doctors
GOBIERNO DE CIENCIA E INNOVACIÓN	Ramón y Cajal
	Technical Support Staff
GOBIERNO MINISTERIO DE UNIVERSIDADES	FPU
idis	IDIS Grants
European	MSCA
Commission	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 €

82Human resources

9.574.362,91 €



RICORS





RICORS REI

Inflammatory Disease Network

RICORS2040

Kidney Disease Network

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

CIBER

Biomedical Research Networking Centres

CIBEROBN (1), 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 | ESP ciber | ES ciber cv

ciber OBN ciber ONC ciber | ER ciber | NED







3 PLATFORMS

BIOBANKS & BIOMODELS

SPANISH CLINICAL RESEARCH NETWORK

ITEMAS. Innovation in Medical & Health Technologies

3 INTERNATIONAL NETWORK

eatris





European Cooperation in Science and Technology

EATRIS, European Infrastructure for Translational Medicine

COST, European Cooperation in Science and Technology

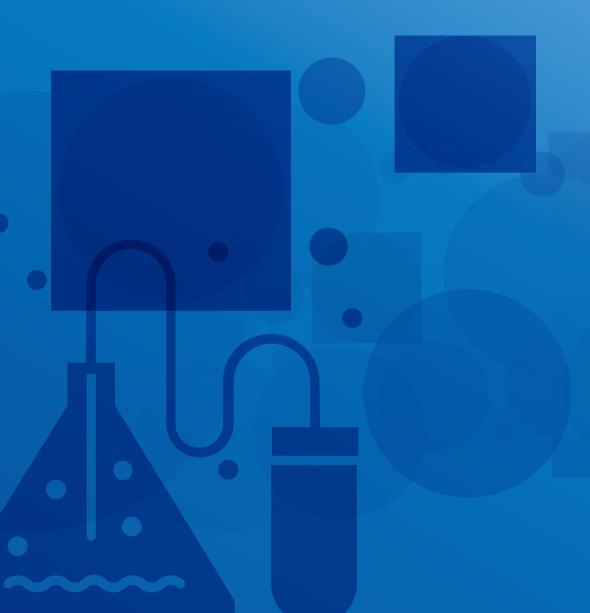
EU OPENSCREEN - European High-Capacity Screenging Network



RECLIP (1), Spanish Pediatric Clinical Trials Network



REGIC, Clinical Research Management Entities Network. 2 OTHER NETWORKS

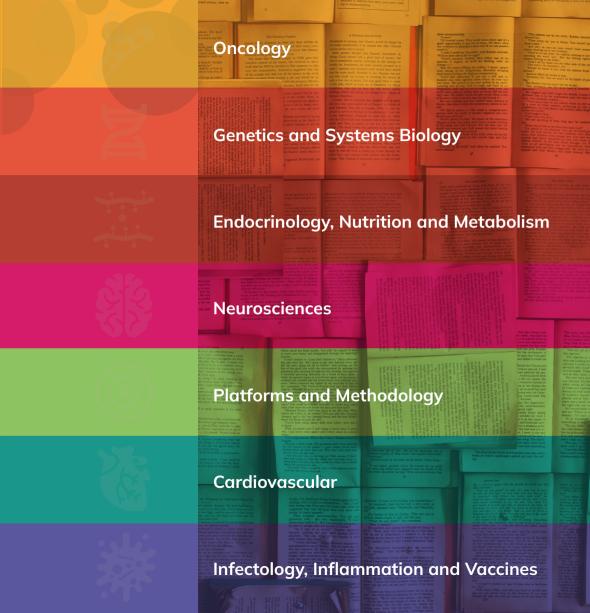


Areas

9. Areas

Publications in 2022

Number



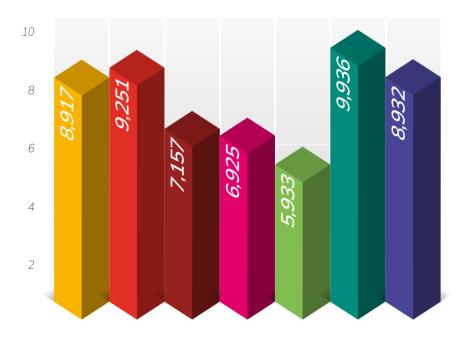
9. Areas

Σfi









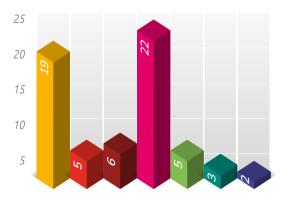


9. Areas

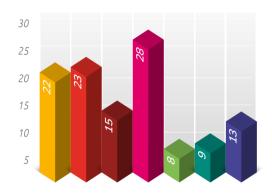
Theses



Patents



Projects



Oncology

Genetics and Systems Biology

Endocrinology, Nutrition and Metabolism

Neurosciences

Platforms and Methodology

Cardiovascular

Infectology, Inflammation and Vaccines

Contracts & Services

