



HEALTH RESEARCH INSTITUTE OF
SANTIAGO DE COMPOSTELA

ANNUAL REPORT

2013

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ANNUAL REPORT 2013





Annual Report 2013

Health Research Institute of Santiago de Compostela

Hospital Clínico Universitario, Edificio D, 1ª planta

Travesía da Choupana s/n

15706 Santiago de Compostela

<http://www.idisantiago.es>

Edition

José Castillo Sánchez

Scientific Director of the Health Research Institute of
Santiago de Compostela

Production

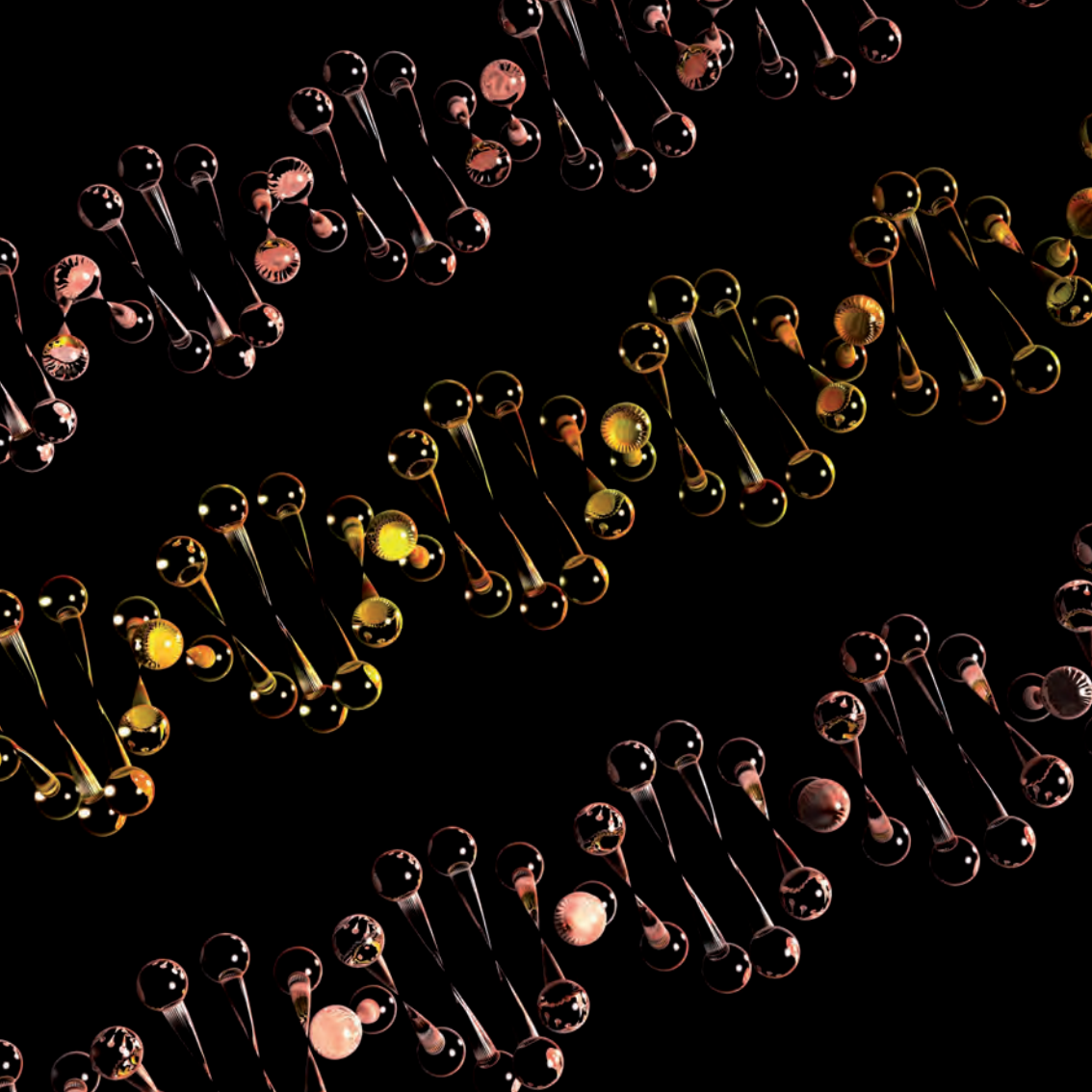
Technical Secretary of the Health Research Institute of
Santiago de Compostela

Isabel Lista García, Quality Manager

Yolanda Liste Martínez, Technical Management

Ricardo Julio Rodríguez Fernández, Technical Research
Management and Promotion





Summary

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Greeting

José Castillo Sánchez
Scientific Director



Once again I am responsible for introducing our Annual Report, in which is reflected the work all of you have developed during 2013. What we began as a common and exciting project is becoming a solid and competitive reality in Galicia, Spain and Europa.

It is time to be proud of what we have achieved, but it is also a chance to think about what we would like to reach and to fix the common ways by which we should walk together.

We have a recognized place in Galicia and it implies a responsibility to lead the biomedical research in our environment. Sharing with the other Galician agents; common goals, knowledge, researchers, leaders and infrastructures, but never confronting. All of this will make us much more competitive

and also our aims much higher. A mistrustful attitude among ourselves weakens us, in addition to be petty. If the others are not able, all of you that represent the intelligence, research, culture and knowledge must be an example for a society overly concerned about immediacy. Our responsibility is something so universal as to improve the quality of human life.

Our recognition in Spain is getting greater quickly. This year has been a good example and the numbers reached allow us to feel a modest but pleasant satisfaction. However, it is also the time to establish the road we want to follow. The world of biomedical research is immense and we cannot achieve the excellence in everything we do. None has to give up their legitimate and well-earned individual goals, but we must progressively coordinate and agree the lines that identify the IDIS as an essential agent in the national research.

Without any doubt, we are building our place in Europe. The presence of our researchers in European projects is becoming customary. There is still a long way to go and we have to

make a valid effort as well as spending time and money in order to get our presence much more active. Your response is a guarantee of a well-founded hope.

Applied research is an obligation of the times that we live in. Our work has to be made available to the public forthwith, in order to improve the quality of our lives, to diagnose and treat diseases and to age with the dignity that makes life worthwhile. It is our mission and therefore we must put a great deal of effort into this aim.

The walked path is the result of team work, in which every single person of the Institute was needed. All of us have made an effort, therefore the IDIS direction wants to express their gratitude to everyone, from the Governing Council led by the Conselleria de Sanidade - SERGAS and by the University of Santiago de Compostela to the whole staff. The several Committees of the IDIS allow us to unify collective interests and they have guided us to develop the new Strategic Plan.

We also give a special thanks to the External Scientific Committee, whose collaboration and its critical and constructive spirit

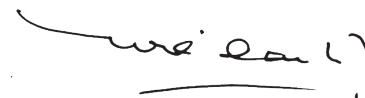
help to consolidate the Institute. Their recommendations are sometimes firm, but always to the benefit of us all.

This initiative has a future, and if we are able to reach it we will be complying with our obligation. The 2013 Annual Report lets us look at the future with hope and happiness.

Thank you.

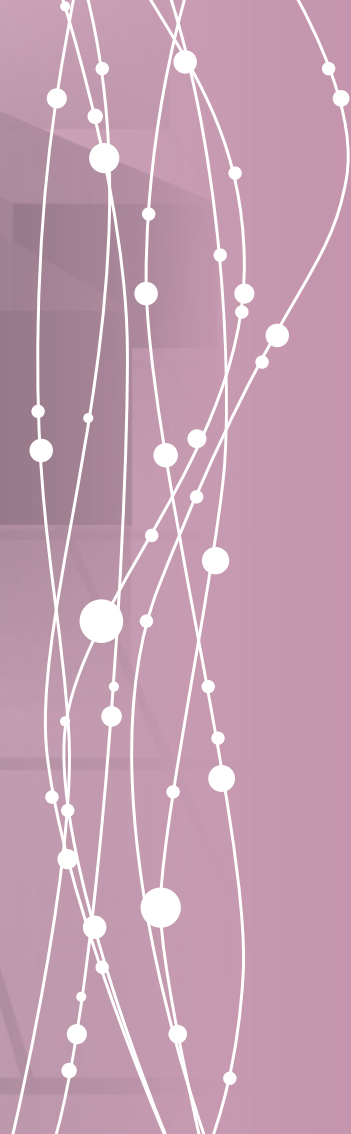
Santiago de Compostela, 7 de marzo de 2014

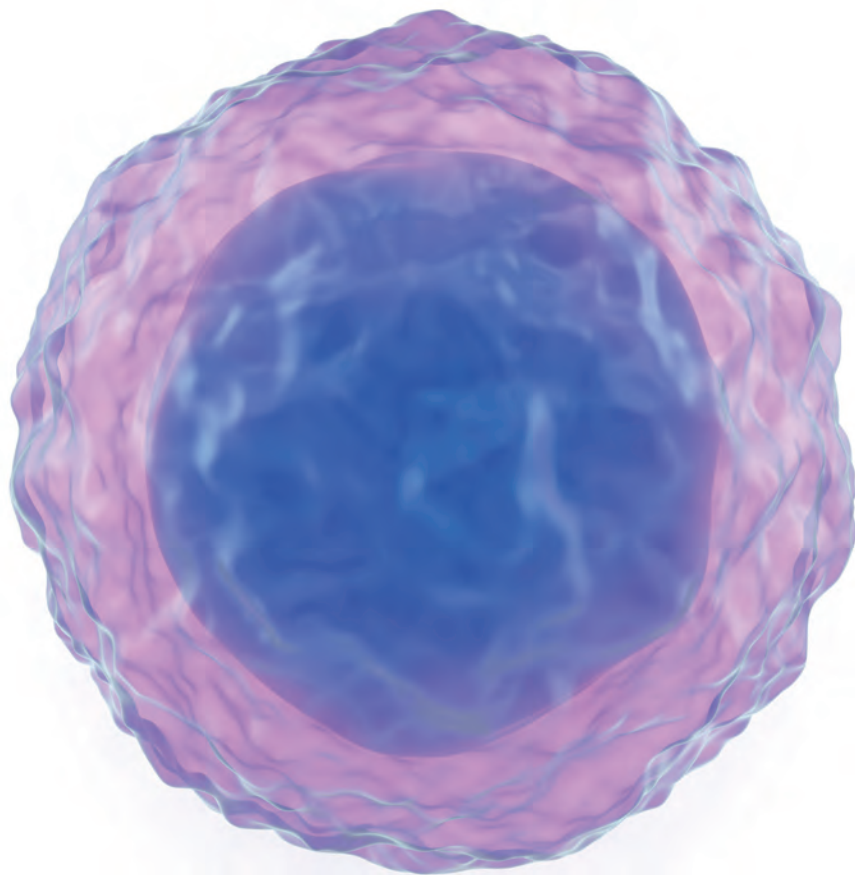
José Castillo Sánchez
Scientific Director





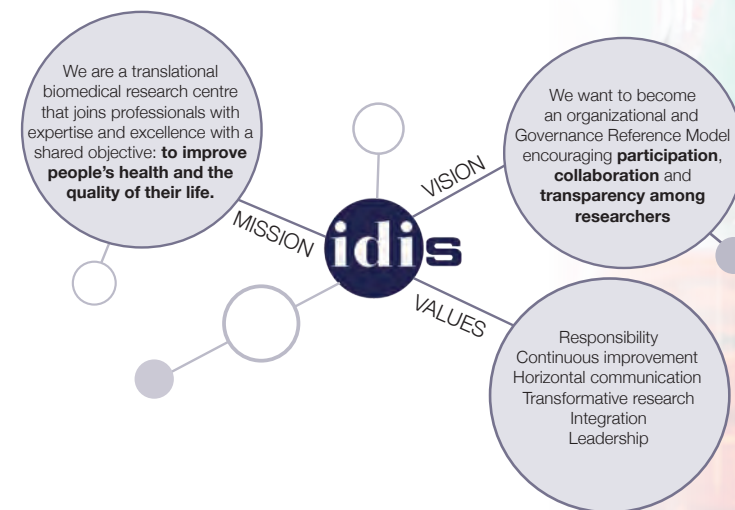
Executive Summary



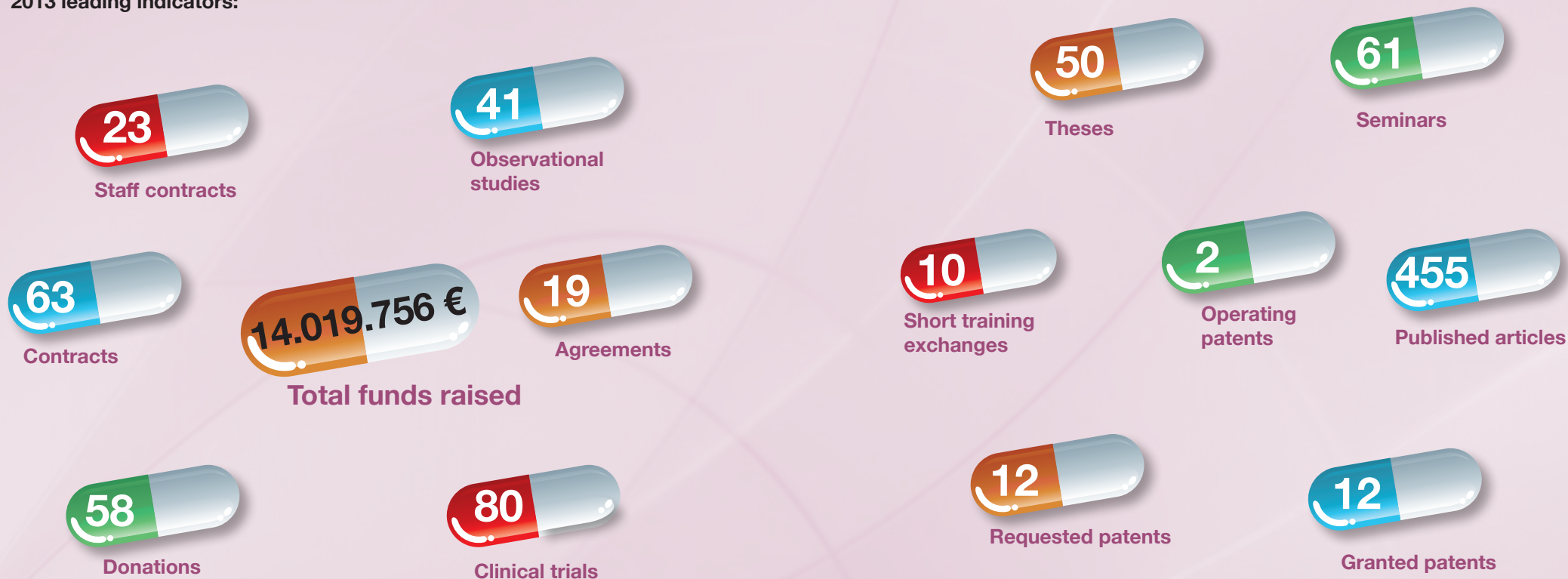


Executive Summary

The Biomedical Research Institute of Santiago de Compostela is a translational research centre for innovation and transfer knowledge that optimizes existing synergies between the Xerencia de Xestión Integrada de Santiago de Compostela and the University of Santiago de Compostela. It is accredited as a medical research centre of the national health system by the Institute of Health Carlos III.

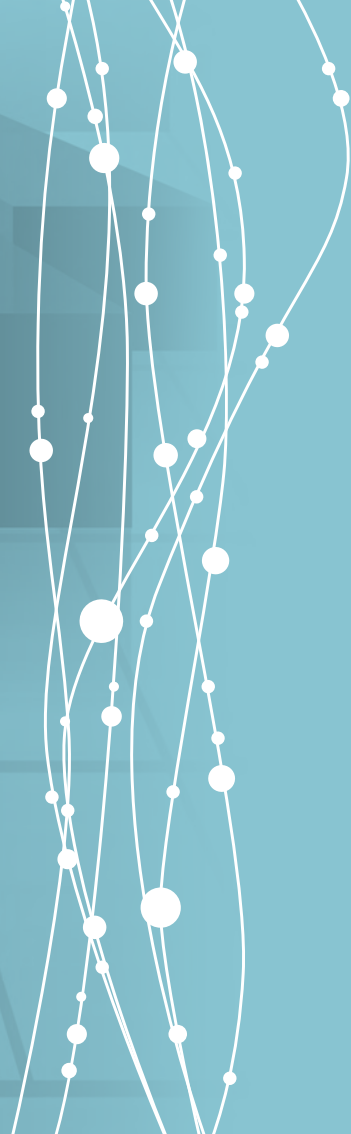


2013 leading indicators:





**Global
Analysis**



Global Analysis

697 people are integrated in **63** groups organized in **6** research areas: Oncology, **12** groups; Genetics and Systems Biology, **12**; Endocrinology, **15**; Neuroscience, **10**; Epidemiology, **4**; and Inflammation, **10**; There is also a support area (technical secretariat and common support platforms for research) with **9** groups.

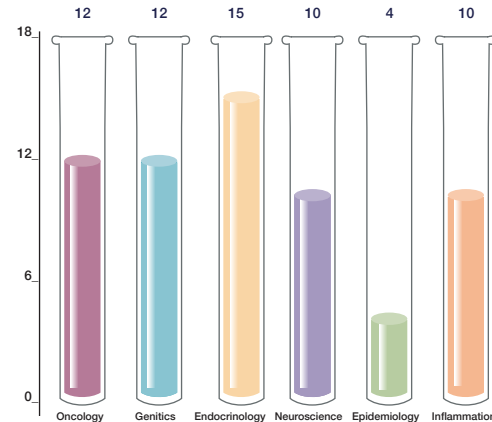


Figure 1. Number of groups per area

These **63** groups are divided into **26** consolidated, **32** emerging and **5** clinical partners. The clinical partners are integrated in the areas of Oncology, Endocrinology,

Neuroscience and Inflammation. In 2013 the emerging group Virus and Cancer joined the Oncology area.

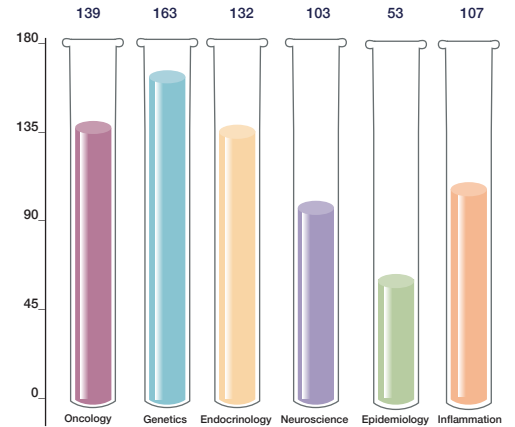


Figure 1. Number of researchers per area

The Institute has published **455** original scientific articles, editorials and reviews in **285** international journals indexed in the Journal Citation Report with an cumulative impact factor of **2.076,39** points and an average impact factor of **4,56** points.



Figure 3. Number of published articles each year during the period of 2009 - 2013

An increase of the number of articles published: 447 in 2012 and **455** in 2013, a remarkable duplication of its number since the establishment of the Institute.

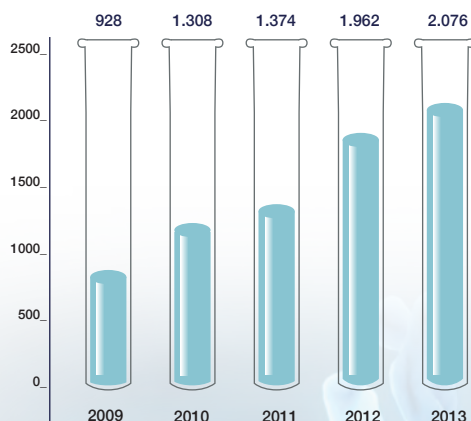


Figure 4. Cumulative impact factor

The upward trend of the cumulative impact factor is maintained and it moves from 928,46 in 2009 to **2.076,39** in 2013: an increase of 120,51% in five years.

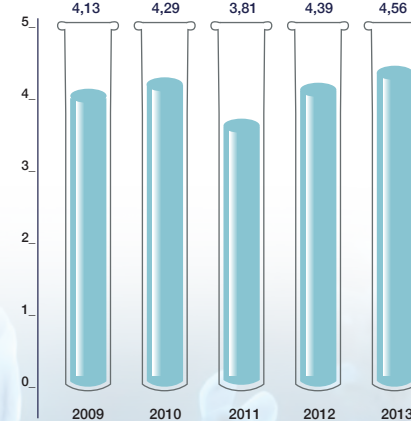


Figure 5. Average impact factor.

The average impact factor in 2013 was 4,56 points.

A remarkable increase in the first decile for the same period from 57 articles published in 2009 to 103 in 2013.

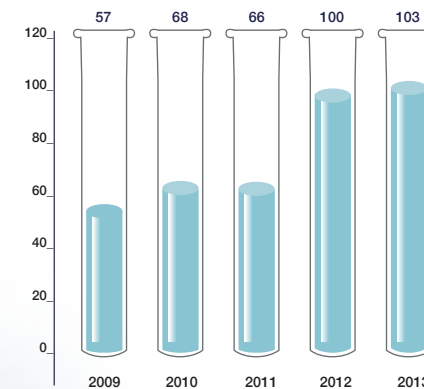


Figure 6. Number of published articles in the first decile during the period of 2009 - 2013.

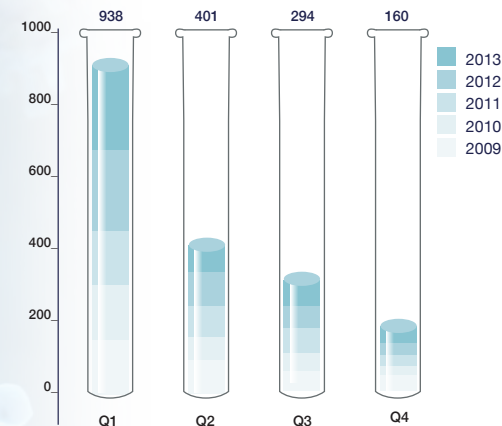


Figure 7. Number of articles by year published in each quartile during the period of 2009 - 2013.

The number of articles per quartile increases gradually during the period of 2009-2013 almost in every quartile and every year.

Taking into account the relevance of the authors in the articles signature, we identify those in which the first or the last author is assigned to an IDIS group. We define them as articles of our own.

D1	Q1	Q2	Q3	Q4	
total	103	253	79	75	48
%	22,6	55,6	17,4	16,5	10,5
Σ	455				
owns	37	107	37	38	22
%	18,1	52,5	18,1	18,6	10,8
Σ	204				

Table 1. Number and % of the total number of publications and articles in 2013

In 2013, from a total of 455 articles, **204** were **published by us** (44,8%). From the 103 of the first decile, D1, 37 are of our own.

In 2013, 19,3% of the work were carried out by teams in which member of more than one IDIS group were involved. 38% were done in collaboration with researchers from centres outside of Spain.

PARTNERSHIPS	N	%
IDIS	88	19,3
international	173	38,0

Table 2. Number and % of articles published in collaboration between the IDIS groups and the groups of the centres outside of Spain.

During 2013, the funds raised in competitive calls for research projects, the recruitment of staff, agreements, contracts and provision of services, donations, clinical trials and observational studies generated **14.019.756 €** which will complement the resources of the institutions that take part in IDIS.

CONCEPT	N	TOTAL
Projects		
International	5	2.550.375 €
National	26	2.519.825 €
Regional	8	1.676.000 €
Subtotal	39	6.746.200 €
Human resources		
Aid for the intensification of the research activity	3	90.000 €
Joan Rodés Contracts	1	135.000 €
Sara Borrell Postdoctoral Contracts	1	80.598 €
Xunta de Galicia Postdoctoral Contracts	4	210.035 €
MINECO Pre-doctoral Contracts	2	41.062 €
Xunta de Galicia Pre-doctoral Contracts	8	166.669 €
IDIS Pre-doctoral Contracts	4	264.000 €
Subtotal	23	987.424 €
Donations		445.334 €
Contracts		1.618.620 €
Provision of services		788.752 €
Agreements		841.059 €
Studies (clinical trials, CT, observational studies, OS)		2.592.367 €
Total		14.019.756 €

Table 3. Summary of the funds raised in 2013

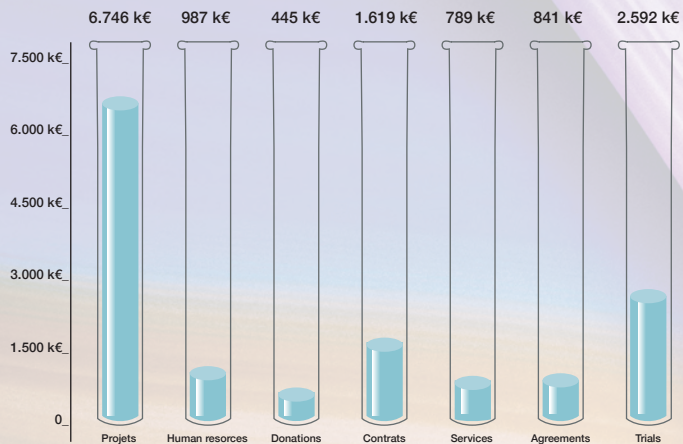


Figure 8. Sources and amounts raised in 2013

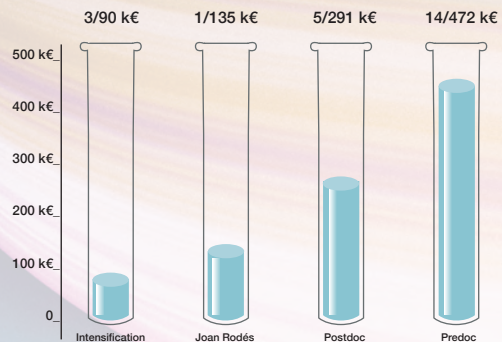


Figure 11. Number and amount of staff contracts raised in 2013. In the call for the Health Strategic Action of the Institute of Health Carlos III (AES 2013), we obtained a Juan Rodés contract, a Sara Borrel contract and three grants for the intensification of the research activity. The Ministry of Economy and Competitiveness, the Xunta de Galicia and the Institute's funds allowed us to call for 14 pre-doctoral and 4 post-doctoral grants.

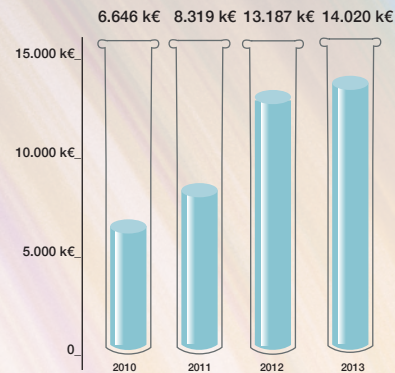


Figure 9. Funds raised between 2010 and 2013

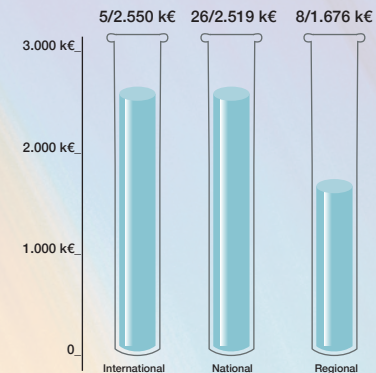


Figure 10. Number and amount of funds raised for projects by location

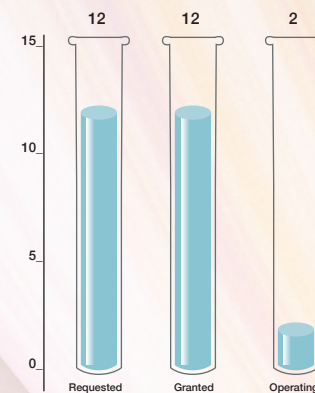


Figure 12. Patents in 2013

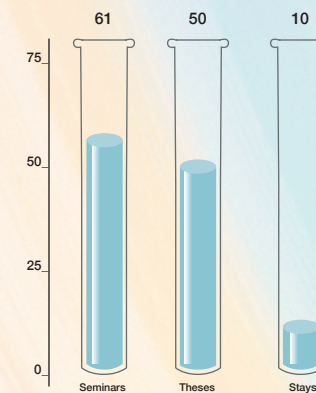


Figure 13. Training activities in 2013

SCIENTIFIC PRODUCTION

AREAS

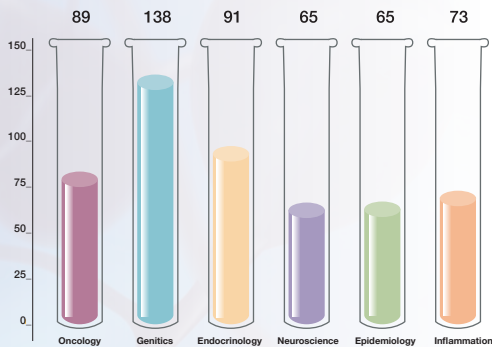


Figure 14. Number of published articles by area in 2013.

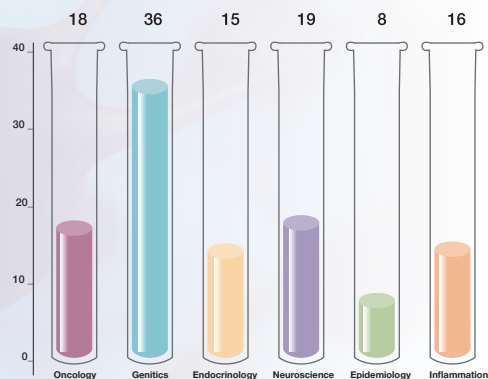


Figure 17. Number of published articles in the first decile by area in 2013.

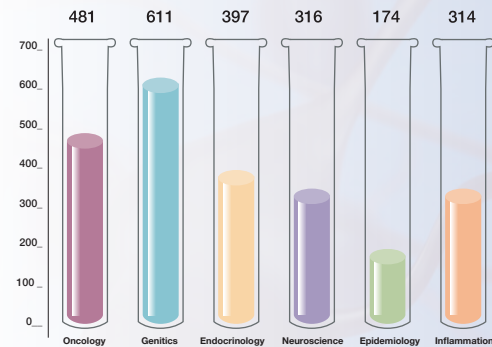


Figure 15. Cumulative impact factor by area in 2013.

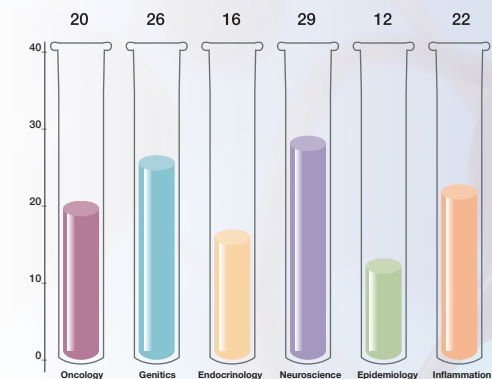


Figure 18. Percentage of published articles in the first decile of the total published articles by area in 2013.

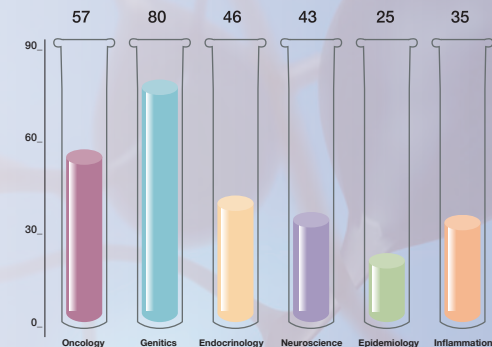


Figure 16. Number of published articles in the first quartile by area in 2013.

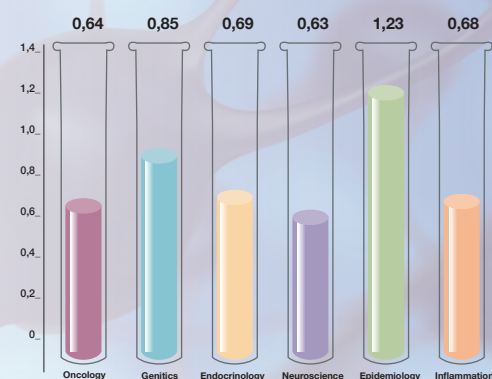
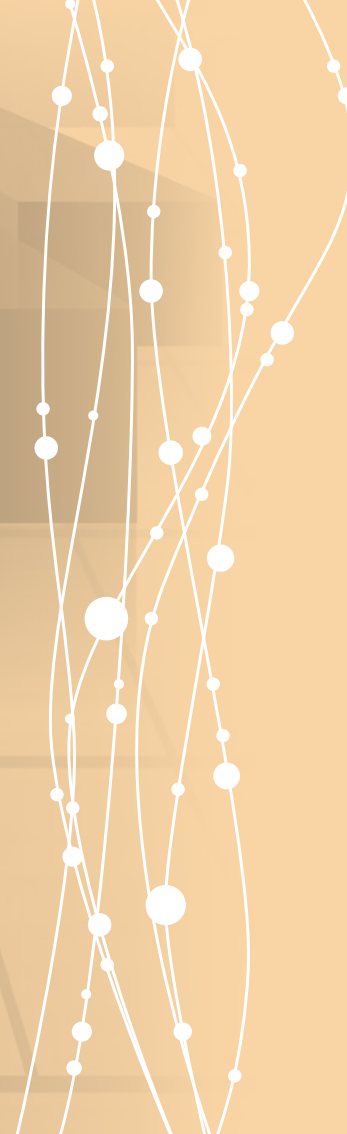


Figure 19. Published articles per capita by area in 2013.



2013 Achievements



2013 Achievements

**BiolIntegraSaúde 2013
(BIS 2013)**

Call and resolution of the IDIS III **Pre-doctoral Grants Programme** for the integration of research staff in the training process in order to develop their doctoral thesis guided by the Institute's researchers.

Consolidating the collaboration between IDIS groups thanks to '**The paradox of obesity**', one of the projects granted by the Institute of Health Carlos III.

Starting the **InveNNta** project (Innovation in Nanomedicine: support for the employment and the socio-economic development in the new production system of the Euro region)

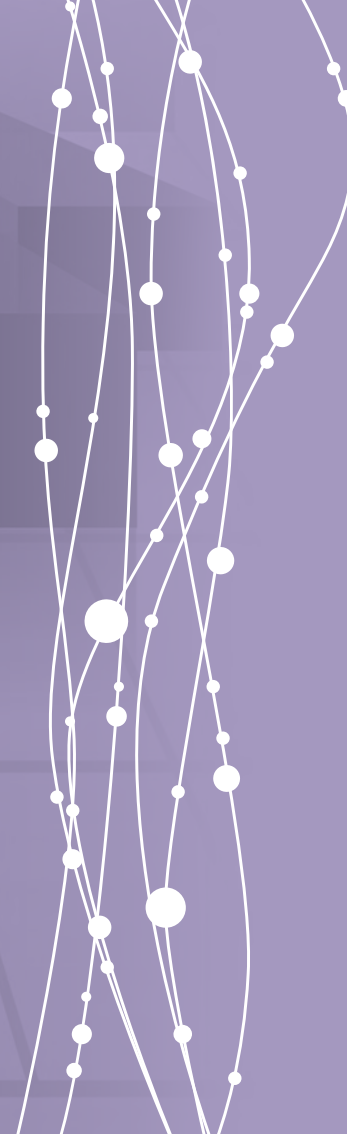
Participation in the **Innovation in Medical Technologies Network (ITEMAS)**

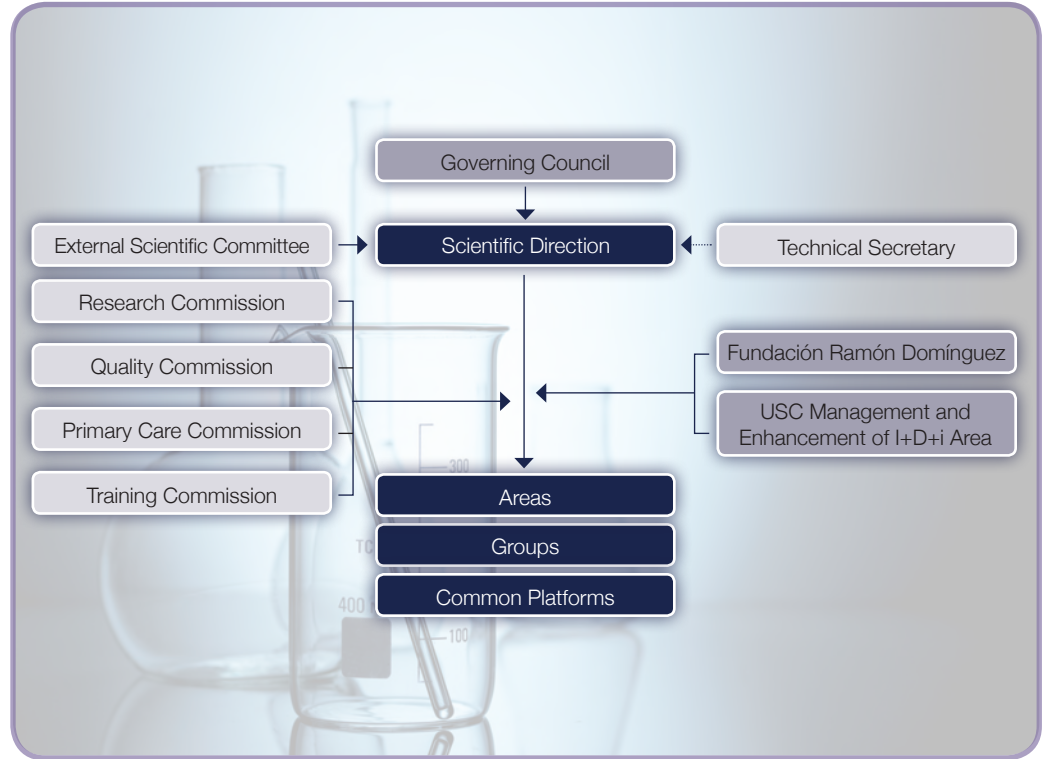
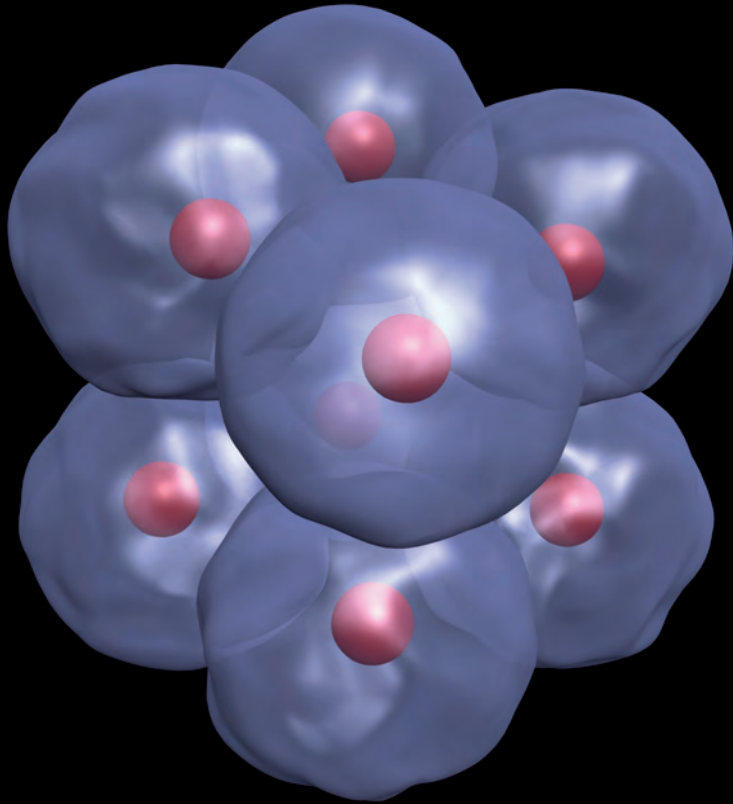
Commissioning of the **TRANSBIO SUDOE** project

IDIS leadership in the Spanish participation in the Imaging and Tracing Group of the **EATRIS** (European Infrastructure for Translational Medicine).



Structure





GOVERNMENT BODIES

Governing Council

President

Rocío Mosquera Álvarez

Vice-president

Juan Casares Long

Chairs

Fernando Domínguez Puente
 Juan Jesús Gestal Otero
 José Ramón González Juanatey
 Arturo González Quintela
 José Luis Labandeira García
 Luis Verde Remeseiro
 Javier Paz Esquete (sin voto)
 José Castillo Sánchez (sin voto)

Scientific Direction

José Castillo Sánchez

ADVISORY BODIES

External Scientific Committee

María del Carmen Ayuso García
 Melchor Álvarez de Mon Soto
 Joan Xavier Comella Carnicé
 Xosé García Bustelo
 Javier García Sancho
 Joan Rodés Teixidor

Research Commission

President

José Ramón González Juanatey

Members

Clara Álvarez Villamarín
 José Castillo Sánchez
 Javier Costas Costas
 José Antonio Costoya Puente
 Carlos Diéguez González
 Adolfo Figueiras Guzmán
 Miguel Ángel García González
 Arturo González Quintela
 Miguel Antonio López Pérez
 María Gómez-Reino Garrido
 Federico Martinón Torres
 María Pardo Pérez
 Jesús Rodríguez Requena
 Anxo Vidal Figueroa

Quality Commission

President

Isabel Lista García

Members

Manuela Alonso Sampedro
 Miguel Ángel Caínzos Fernández
 Pilar Gayoso Diz
 Carmen Ruth González Diéguez
 Michel Herranz Carnero
 Ana Mosquera Miguel
 Jesús Rodríguez Requena
 Mar Vázquez Salgado

Training Commission

President

María Jesús Sobrido Gómez

Members

Miguel Ángel García González
 Miguel Gelabert González
 Juan Jesús Gestal Otero
 Arturo González Quintela
 Francisco Gude Sampedro
 Rosaura Leis Trabazo
 Montserrat Nogueira Álvarez
 Álvaro Ruibal Morell
 Juan Bautista Zalvide Torrente

Primary Care Commission

President

Carmen Vidal Pan

Members

Carlos Calvo Gómez
 Montserrat Camiña Tato
 María del Carmen Fernández Merino
 José Ramón González-Juanatey
 Manuel Lado López
 Benito José Regueiro García
 Jesús Rey García
 Jesús Sueiro Justel

TECHNICAL SECRETARY

Isabel Lista García
 Yolanda Liste Martínez
 Ricardo Julio Rodríguez Fernández

AREAS AND GROUPS
A001 ONCOLOGY Coordinator: Tomás García-Caballero Parada

C010	Genetics of Human Diseases	Fernando Domínguez Puente
C011	Pathology	José Ramón Antúnez López
C025	NANOBIOFAR	María José Alonso Fernández
E004	Molecular Oncology	José Antonio Costoya Puente
E010	Translational Medical Oncology	Rafael López López
E018	Cell Cycle and Oncology (CiClon)	Anxo Vidal Figueroa
E028	Stem Cells in Cancer and Aging	Manuel Collado Rodríguez
E031	Oncologic Endocrinology	Román Pérez Fernández
E032	Preclinical Animal Models	Laura Sánchez Piñón
E033	Viruses and Cancer	Carmen Rivas Vázquez
AC01	Lymphoproliferative Disorders	José Luis Bello López
AC02	Molecular Imaging	Álvaro Ruibal Morell

A002 GENETICS AND SYSTEMS BIOLOGY Coordinator: Ángel Carracedo Álvarez

C005	Genetics	Ángel Carracedo Álvarez
C009	Digestive Pathology	Juan Enrique Domínguez Muñoz
C020	Genetics, Vaccines, Infections and Paediatrics (GENVIP)	José María Martinón Sánchez

E001	Genetics of Cardiovascular and eye Diseases	María José Brión Martínez
E012	Comparative Genomics of Human Parasites	Julio Manuel Maside Rodríguez
E013	Microbiology	Benito José Regueiro García
E015	Population Genetics in Biomedicine (GenPoB)	Antonio Salas Ellacuriaga
E016	Genetics of Neurological Disorders	María Jesús Sobrido Gómez
E017	Cancer Genetics	Ana Paula Vega Gliemmo
E020	Psychiatric Genetics	Javier Costas Costas
E021	Genetics and Developmental Biology of Kidney Diseases	Miguel Ángel García González
E027	Escherichia coli	Jorge Blanco Álvarez

A003 ENDOCRINOLOGY Coordinator: Felipe Casanueva Freijo

C001	Neoplasia and Endocrine Differentiation	Clara Álvarez Villamarín
C006	Molecular Endocrinology	Felipe Casanueva Freijo
C008	Obesity and Nutrition	Carlos Diéguez González
C012	Metabolic Disorders	José María Fraga Bermúdez
C019	Thyroid and Metabolic Disorders Unit (JETeM)	David Araújo Vilar
C021	Clinical Analysis	Santiago Rguez.-Segade Villamarín
C022	Paediatric Nutrition	Rafael Tojo Sierra

E006	Cytokines and Obesity (Citobes)	M ^a del Carmen García García
E011	Neurobesity	Miguel Antonio López Pérez
E022	Molecular Metabolism	Rubén Nogueiras Pozo
E023	Obesidomics	María Pardo Pérez
E024	Structural Biochemistry of Endocrine Pathology	Yolanda Pazos Randulfe
E025	Cellular Endocrinology	Jesús Pérez Camiña
E026	Endocrine Physiopathology	Luisa María Seoane Camino
AC04	Paediatric Endocrinology	Manuel Pombo Arias

A004 NEUROSCIENCE Coordinator: José Castillo Sánchez

C004	Neurobiology	Antonio Canedo Lamas
C007	Neurology	José Castillo Sánchez
C015	Neurobiology of the Visual System	Francisco González García
C018	Experimental Neurology of Parkinson's Disease	José Luis Labandeira García
C023	Pharmacology	José Carlos Tutor Valcarce
C026	BIOFARMA	María Isabel Loza García
E014	Prion Diseases	Jesús Rodríguez Requena
E019	Cell Stress	Juan Bautista Zalvide Torrente
E029	Cognitive Neuroscience	Fernando Díaz Fernández
AC03	Critical Patient	Julián Álvarez Escudero

A005 EPIDEMIOLOGY Coordinator: Juan Jesús Gestal Otero

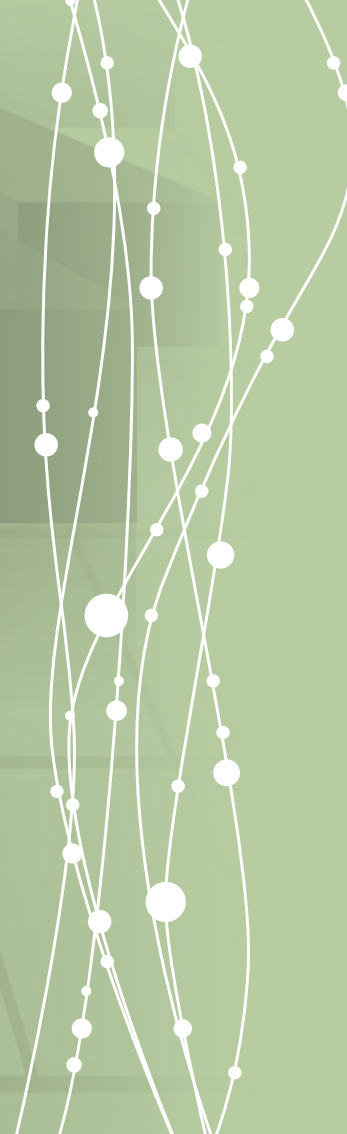
C002	Surgery	Miguel Ángel Caínzos Fernández
C013	Epidemiology, Public Health and Evaluation of Health Services	Juan Jesús Gestal Otero
C017	Epidemiology of Frequent Diseases	Francisco Gude Sampedro
E002	Biostatistics	Carmen María Cadarso Suárez

A006 INFLAMMATION Coordinator: José Ramón González Juanatey

C003	Hypertension	Carlos Calvo Gómez
C014	Rheumatology	Juan Jesús Gómez-Reino Carnota
C016	Cardiology	José Ramón González Juanatey
C024	Radiology	José Martín Carreira Villamor
E003	Experimental Rheumatology	Carmen Conde Muro
E007	Genetics of Osteoarticular Disorders	Antonio Gz Martínez-Pedrayo
E008	Neuroendocrine Interactions in Rheumatic and Inflammatory Diseases (Neirid)	Oreste Gualillo
E009	Cellular and Molecular Cardiology	Francisca Lago Paz
E030	Platelet Proteomics	Ángel García Alonso
AC05	Neumology	Luis Guillermo Valdés Cuadrado



Recurrent
Training



In 2013, **61 seminars** were organized, **50 doctoral theses** were directed by IDIS' researchers and **10 short training exchanges** were organized in collaboration

with the Medicina Intercambios Galicia Association (ME.I.GA.), member of the La International Federation of Medical Students' Associations (IMFSA).



Seminars



Doctoral theses

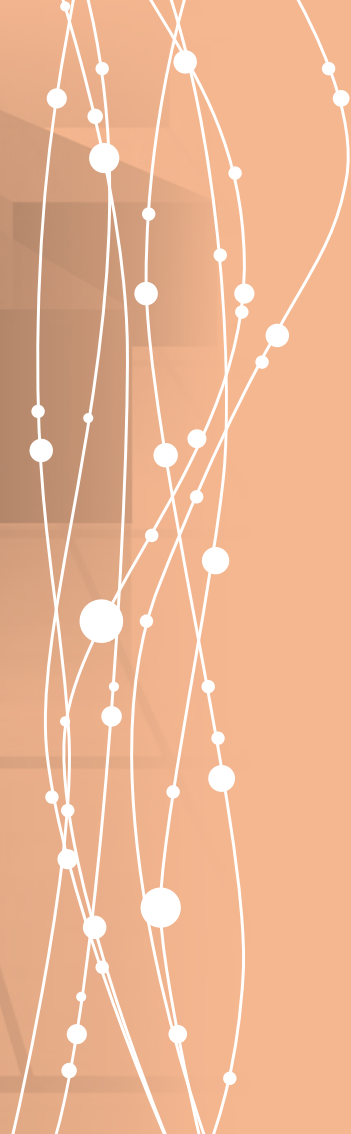


Short training exchanges





Innovation and
transfer



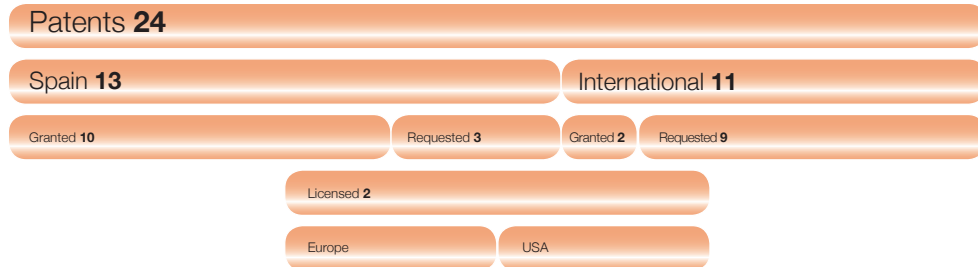
The main initiatives of transferability registered during 2013 are the following :

- Participation of the Institute in the new **Innovation in Medical and Health Technologies Platform** (call AES 2013).
- Preparation of the second season of the “Technological Base” program, a microsite to publish the activities of the public research centres in Galicia, with emphasis on its impact on the improvement of the quality of the citizens’ life.
- The establishment of the **KICGallaecia** association consolidated the participation of Galicia as a full partner of the international initiative **LifeKIC**.

This project aimed for the 2014 call of the **European Institute of Innovation and Technology** to create a new **Knowledge and Innovation Community** on active and healthy aging.

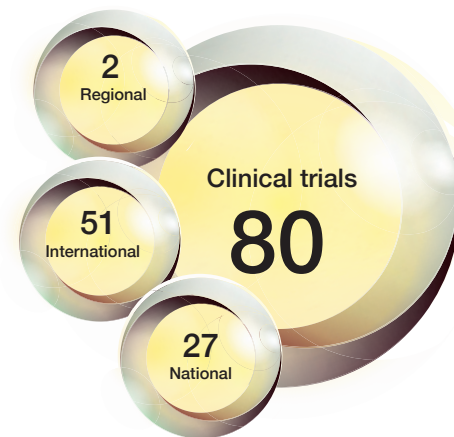
Promotion of the protection of research results through **national and international patents**.

Following are our transfer knowledge indicators for 2013: 24 patents registered, 13 of them national (10 granted and 3 requested) and 11 international (2 granted and 9 requested). Two of the 24 are licensed, one in Europe and another in USA.



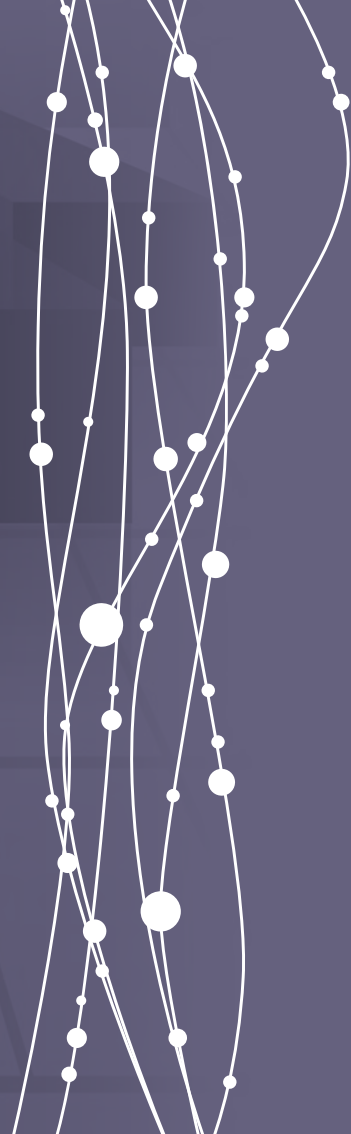
Clinical trials and observational studies were as follow: during the past year, IDIS recorded a total of 80 clinical trials (27 national, 51 international and 2 regional) and

41 observational studies (22 national and 19 international).





Platforms



PROTEOMICS

The proteomics platform was created to enhance, give support and offer a complete infrastructure in the field of proteomics to the Institute's researchers and other public and private bodies.

It is equipped with the latest generation technology that allows the development of both studies of characterisation of complete proteomes as well as studies of analysis of differential expression.

Contact

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ANALYSIS OF CIRCULATING TUMOR CELLS

The service for the analysis of circulating cells works with the CellSearch™ system (Veridex) that allows, through the use of

immunomagnetic techniques of enrichment and identification by immunofluorescence, isolate and quantify present cells in peripheral blood. Its main application is aimed to the detailed analysis of circulating tumor cells (CTC), even though the computer also allows identify other kind of cells such as endothelial. In addition, the platform has the capacity to carry out studies with circulating DNA.

Contact

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laura.muínelo.romay@sergas.es

CONFOCAL MICROSCOPY

The confocal microscopy service includes an infrastructure and specialized staff to do fluorescence or confocal microscopy analysis.

Contact

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FLOW CITOMETRY

It is a technique of cells analysis that allows one to measure the characteristics of light scattering and fluorescence that cells have when they pass through a ray of light. This platform's main aims are:

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

Contact

Tomás Sobrino Moreiras
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MAGNETIC RESONANCE IMAGING

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

Contact

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BIOBANK

It is a store of biological samples associated with clinical information, which are collected, processed and handled with quality and excellence criteria. The objective is to implement them, in a non-profit way, to serve the medical community in order to promote biomedical research. Biobanks can be directly aimed at diseases (e.g., Bank of Tumours) or at population and epidemiological outbreaks. Biobanks are essential tools to make biomedical research easier. That is why they are so relevant and also for the increasing demand of the highest quality biological samples in order to develop research processes.

The specific aims of Santiago's Biobank are:

- To increase the quantity and quality of the samples available to the scientific community.
- To manage the specific collections linked to projects and research groups that increase

the added value of the Biobank.

- To serve as support and advice platform for researchers who work on projects that require collecting human samples.
- To promote the intrahospital integration and the central management of the CHUS' samples collections.
- To unify standard operating procedures and policies for quality assurance applicable to all collections managed by the Biobank.

Contact

Lydia Fraga Fontoira

Manager

981 955 148

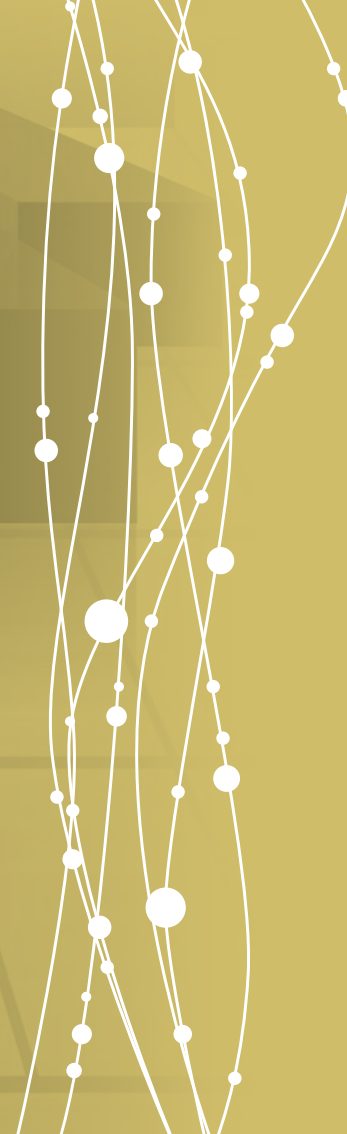
Lydia.fraga.fontoira@sergas.es

Biobanco.apa.santiago@sergas.es





Competitive
Fundraising



In 2013, **7.733.624 €** were raised from public competitive calls (projects funding and staff contracts).

RESEARCH PROJECTS

KIND	NUMBER	TOTAL
International	5	2.550.375 €
National	26	2.519.825 €
Regional	8	1.676.00 €
Total	39	6.746.200 €

HUMAN RESOURCES

KIND OF CALL	NUMBER	TOTAL
Research intensification	3	90.000 €
Joan Rodés	1	135.000 €
Postdoctoral contracts	5	290.633 €
Predocctoral contracts	14	471.791 €
Total	23	987.424 €

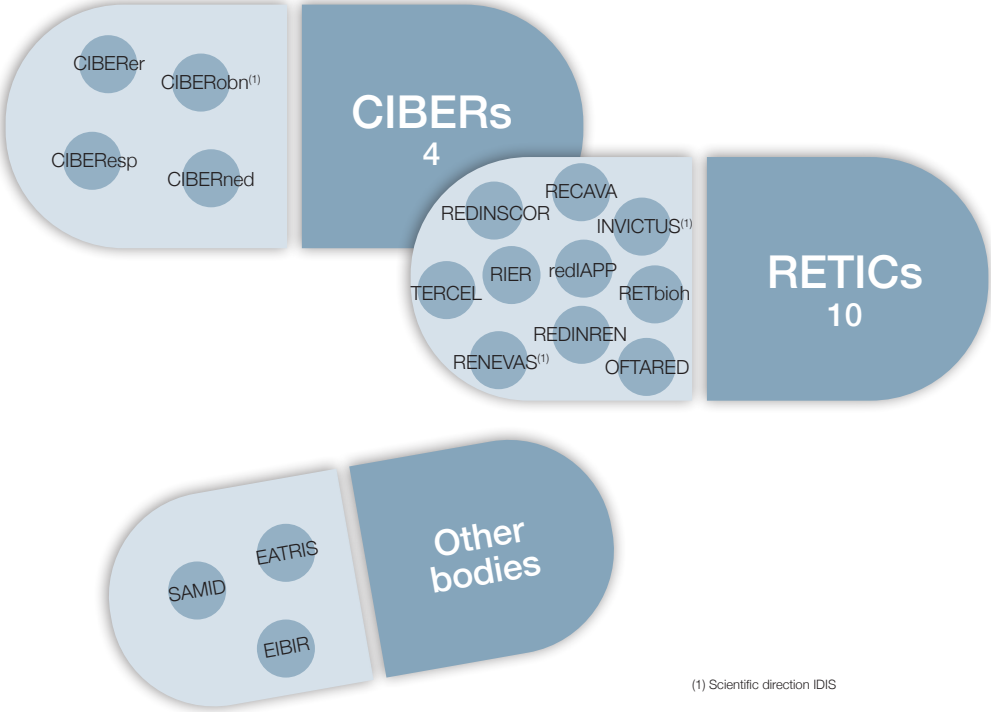


**Strategic
Alliances**





In 2013, IDIS participated in different cooperatives and several national networks of excellence.



(1) Scientific direction IDIS

AREAS

A001

Oncology

A002

Genetics and Systems Biology

A003

Endocrinology

A004

Neuroscience

A005

Epidemiology

A006

Inflammation

A001 Oncology

Coordinator: Tomás García-Caballero Parada

Genetics of Human Diseases (C010)
Pathology (C011)
NANOBIOFAR (C025)
Molecular Oncology (E004)
Medical and Translational Oncology (E010)
Cell Cycle and Oncology (CiClon) (E018)
Stem Cells in Cancer and Aging (E028)
Oncologic Endocrinology (E031)
Preclinical Animal Models (E032)
Viruses and Cancer (E033)
Procesos Linfoproliferativos (AC01)
Molecular Imaging (AC02)

2013 INDICATORS

	n°	$\sum fi$	\bar{fi}	total
Articles published	89	481	5,40	
Projects	9			2.062.285€
Contracts and Agreements	18			490.875€
Clinical Trials	37			
Patents	10			7 requested / 3 granted
Thesis	5			

A002 Genetics and Systems Biology

Coordinator: Ángel Carracedo García

Genetics (C005)
Digestive Pathology (C009)
Genetics, Vaccines, Infections and Paediatrics (GENVIP) (C020)
Genetics of Cardiovascular and Eye Diseases (E001)
Comparative Genomics of Human Parasites (E012)
Microbiology (E013)
Population Genetics in Biomedicine (GenPoB) (E015)
Genetics of Neurological Disorders (E016)
Cancer Genetics (E017)
Psychiatric Genetics (E020)
Genetics and Developmental Biology of Kidney Diseases (E021)
Escherichia Coli (E027)

2013 INDICATORS

	n°	$\sum fi$	\bar{fi}	total
Articles published	138	611	4,43	
Projects	12			1.981.561€
Contracts and Agreements	27			371.454€
Clinical Trials	27			
Patents	2			1 requested / 1 granted
Thesis	8			

A003 Endocrinology

Coordinator: Felipe Casanueva Freijo

Neoplasia and Endocrine Differentiation (C001)
Molecular Endocrinology (C006)
Obesity and Nutrition (C008)
Thyroid and Metabolic Disorders Unit (UETeM) (C012)
Metabolic Disorders (C019)
Clinical Analysis (C021)
Pediatric Nutrition (C022)
Neurobesity (E011)
Molecular Metabolism (E022)
Obesidomics (E023)
Structural Biochemistry of Endocrine Pathology (E024)
Cellular Endocrinology (E025)
Endocrine Physiopathology (E026)
Molecular Imaging (AC04)

2013 INDICATORS

	n°	$\sum fi$	\bar{fi}	total
Articles published	91	397	4,36	
Projects	5			708.179€
Contracts and Agreements	10			169.035€
Clinical Trials	8			
Patents	5			1 requested / 4 granted
Thesis	9			

A004 Neuroscience

Coordinator: José Castillo Sánchez

Neurobiology (C004)
Neurology (C007)
Neurobiology of the Visual System (C015)
Experimental Neurology of Parkinson's Disease (C018)
Pharmacology (C023)
BIOFARMA (C026)
Prion Diseases (E014)
Cognitive Neuroscience (E029)
Critical Patient (AC03)

2013 INDICATORS

	n°	$\sum fi$	\bar{fi}	total
Articles published	65	316	4,86	
Projects	8			1.097.752€
Contracts and Agreements	2			20.550€
Clinical Trials	11			
Patents	9			1 requested / 6 granted / 2 licensed
Thesis	10			

A005 Epidemiology

Coordinator: Juan Gestal Otero

Surgery (C002)
Epidemiology, Public Health and Evaluation of Health
Services (C013)
Epidemiology of Frequent Diseases (C017)
Biostatistics (E002)

2013 INDICATORS

	n°	$\sum fi$	\bar{fi}	total
Articles published	65	174	2,67	
Projects	4			525.444€
Contracts and Agreements	6			232.905€
Clinical Trials	1			
Thesis	11			

A006 Inflamación

Coordinator: José Ramón González Juanatey

Hypertension (C003)
Rheumatology (C014)
Cardiology (C016)
Radiology (C024)
Experimental Rheumatology (E003)
Genetics of Osteoarticular Disorders (E007)
Neuroendocrine Interactions in Rheumatic and
Inflammatory Diseases (Neirid) (E008)
Cellular and Molecular Cardiology (E009)
Platelet Proteomics (E030)
Neumology (AC05)

2013 INDICATORS

	n°	$\sum fi$	\bar{fi}	total
Articles published	73	314	4,30	
Projects	6			370.980€
Contracts and Agreements	11			288.509€
Clinical Trials	37			
Patents	2			2 granted
Thesis	8			

