

2016

Memòria Científica

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Scientific Report

Institut d'investigació Germans Trias





Campus de Can Ruti, Badalona

PRESENTATION

THE INSTITUTE

It is a great pleasure for me to present the 2016 Scientific Annual Report of the Germans Trias i Pujol Research Institute (IGTP). This year has seen important changes in our institution which, as an ISCIII accredited organization, provides organizational coverage for various research institutes on the Can Ruti Campus in Badalona, 20 minutes from Barcelona.

During 2016 we have made advances in the process of designing a campus with better integration and coordination between the different organizations that make up the IGTP. In line with this, the Institute of Predictive and Personalized Medicine of Cancer (IMPPC), based on the campus and directed by Manuel Perucho has merged with the IGTP and with the Josep Carreras Leukaemia Research Institute (IJC). We have continued the integration of other institutions within the IGTP, such as the Maresme Health Consortium and the Jordi Gol Research Institute (IDIAP), which aggregates investigators from the primary health care sector of the Catalan Health Institute as well as the IJC. The construction of the new IJC research building on Campus Can Ruti has continued and it is expected to open at the end of 2017. In parallel we have continued the building work on the Comparative Medicine and Bioimaging Centre (CMCiB), with the objective of offering large animal models, while also providing state-of-the-art bioimaging technology that will promote research in bio signalling and functional imaging studies. Both buildings have been supported financially by Dynamics Actions of ISCIII and FEDER funding.

The whole IGTP group has again beaten its own record in scientific results with 701 publications, which easily surpasses 543 in 2015 and an IF of 3714 in comparison to 2747 in 2015. This includes 56% of publications in Q1 and 20.1% in D1. The 52 research groups and their 163 deserve our congratulations and thanks, the results mean 4.3 publications per PI per year and puts us amongst the most efficient research centres in Spain.

Finally, I must point out that this annual report scientific results are organized by thematic areas and groups, which we feel is more useful and easier to read. Last of all, we have given our logo a facelift so that it now has a different, more robust and solid typeface, which better represents the reality of our institution.

Thank you,

Dr Manel Puig Domingo
IGTP Director

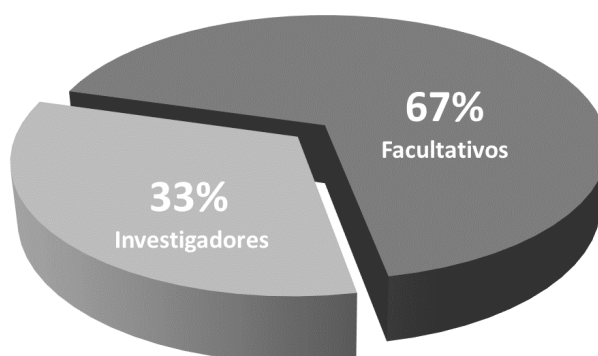
RESEARCHER ACTIVITY: HUMAN RESOURCES

RESEARCH PROFESSIONALS

In 2016 the IGTP worked with a total of 405 professionals related directly or indirectly to research and development. This includes researchers, research support staff, administration, communication and management of the institute.

Principal Investigators (with active projects)	163
Collaborating investigators	742
• Specialized physicians	324
• Postdoctoral investigators	77
• Pre-doctoral investigators	122
• Nursing Staff	70
• Technicians and research support staff	84
• Administration and Management	65
Total	970

675 of the principal investigators of the IGTP are medical staff at the Germans Trias i Pujol Hospital that dedicate part of their time to research.



PERSONNEL CONTRACTED VIA PUBLIC COMPETITIVE FUNDING

Number of contracts awarded in 2016	12
Number of contracts active in 2016	46

In 2016 the IGTP was awarded 12 new contracts for personnel through calls for public competitive funding.

No.	Financing Body	Call
2	University and Research Grants Agency (AGAUR)	Pre-doctoral contracts for young researchers FI-DGR 2017
2	Ministry of Health, PERIS	Contracts for research dedication by nursing professionals
5	Ministry of Health, PERIS	Contracts for scientists and technicians joining research groups
1	Instituto de Salud Carlos III	Juan Rodés contracts
1	Instituto de Salud Carlos III	Pre-doctoral contracts for training in companies (iPFIS)
1	Instituto de Salud Carlos III	Rio Hortega contracts

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In 2016 there were a total of 46 active contracts financed by public institutions. In the following table the funding agencies are listed.

No.	Agencia financiadora	Convocatoria
4	Instituto de Salud Carlos III	Miguel Servet Contracts- Type 1
4	Instituto de Salud Carlos III	Miguel Servet Contracts- Type 2
3	Instituto de Salud Carlos III	Juan Rodes contracts
2	Instituto de Salud Carlos III	Pre-doctoral contracts for training in companies (iPFIS)
1	Instituto de Salud Carlos III	Pre-doctoral contracts for research training PFIS
1	Instituto de Salud Carlos III	Sara Borrell contracts
1	Instituto de Salud Carlos III	Rio Hortega contracts
1	Instituto de Salud Carlos III	Contracts for research management in accredited research institutes
1	Instituto de Salud Carlos III	Call for post-MIR RIC postdoctorates
1	Instituto de Salud Carlos III	Contracts for senior staff in health research institutes (ISIS Contracts)
5	Ministry of Economy and Competitivity	Grants for the employment of young people
1	Ministry of Economy and	Ramón y Cajal contract

	Competitivity	
1	Ministry of Economy and Competitivity	Juan de la Cierva grants
1	Ministry of Economy and Competitivity	Juan de la Cierva grants - Training
1	Ministry of Economy and Competitivity	Grants for pre-doctoral contracts for the training of doctors
2	Ministry of Education, Culture and sport	Grants for training of doctors of the national university staff training program (FPU)
5	Ministry of Health, PERIS	Contracts for scientists and technicians joining research groups.
2	Departament de Salut, PERIS	Contracts for research dedication by nursing professionals
6	University and Research Grants Agency (AGAUR)	Pre-doctoral contracts for young researchers (FI)
1	University and Research Grants Agency (AGAUR)	Beatriu de Pinós (BP-DGR) Grants for the incorporation of postdoctoral research staff in the Catalan Science and Technology System.
1	WL GORE	MPD EEA GRANTS

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SCIENTIFIC AND TECHNOLOGICAL SERVICES

CORE FACILITIES

Summary table of active projects and training activities of each facility:

	2016 Projects				Training Activities
	IGTP	Campus Can Ruti	External	Total	
Biobank	30	5	12	47	
Computational Facility	5	8		13	
Cytometry	19	12	6	37	XVIII Edition of Basic and Applied Flow Cytometry. Flow Cytometry course in the Master in Immunology UB/UAB
Cryobiology	34	7	3	44	
Translational Genomics	29	11	5	45	Flow RT-PCR course in the Master in Immunology UB/UAB
Genomics and Bioinformatics	11	8	5	24	
Histopathology and Electron Microscopy	17	5	3	25	
Microscopy	17	2		19	
Proteomics and Metabolomics	8	2	3	13	

Biobank

The Biobank has the main objective of coordinating, organizing, harmonizing and facilitating access to biological samples and their associated data to the scientific community. This is carried out through standardized protocols that guarantee tracking, quality and safety of data, process and samples in line with current legal requirements.

Director: Edurne Pedrosa

Central Node:

Technician: Verónica Guirao y Laura Ozaez

Tumor Bank Node:

Coordinator: M^o Teresa Fernández-Figueras

Technicians: Laia Pérez and Irian Lorences

High Performance Computing

This new scientific computational computing facility provides the infrastructure and software required by bioinformaticians.

The objective of the unit is to help researchers with the computational needs, allowing them to concentrate on their scientific goals. These needs range from consultations on the best methods of computation to server and software installation and include construction of personalized solutions for specific bioinformatic needs. The facility is in continuous revision and updating of storage, virtualization and automation technologies and management of software to improve the service provided.

Systems Administrator: Iñaki Martínez

Translational Genomics

The objective of the Translational Genomics Unit is to provide support and advice on techniques and methodology in experimental design, obtaining the analysis and results to the scientific community on the Can Ruti Campus. It also promotes research, innovation and training in genomics. In parallel, the unit provides an analysis service to the diagnostic units in the HUGTP and all external health care groups that request it.

Manager: M^a Pilar Armengol

Technicians: Anna Oliveira and Irina Pey

High Content Genomics and Bioinformatics

This unit provides support from the design of studies to the interpretation of data and the development of new applications in the field of high content genomics. The services include: Consulting, Illumina and Ion Torrent NGS, Illumina and Agilent Microarrays, robotic automation and Bioinformatics (standardized or personalized analysis for the discovery of biomarkers, differential methylation, copy number and gene expression, functional analysis and filtering of variants and annotation).

Manager: Lauro Sumoy

Technicians: Raquel Pluvinet, Laia Ramos, David Piñeyro (Bioinformatician) and Susanna Aussó (Bioinformatician).

Histopathology and Electron Microscopy Facility

The Histopathology and Electron Microscope Facility is closely connected to the Pathology Department in the Germans Trias i Pujol Hospital with its repeatedly certified quality standards. The facility supplies a wide support in histology, histochemistry,

immunohistochemistry, ultrastructure to researchers and also the construction of tissue microarrays.

Manager: M^o Teresa Fernández-Figueras

Technician: Laia Pérez

Proteomics and Metabolomics

The objective of this facility is to provide scientific and technical support to internal and external researchers in the development of methodology for analysis of proteins and metabolites according to the needs of their projects.

Manager: José M^a Hernández

Technicians: Lourdes Fluvià, Eugeni Aragall and Elisabeth Montero

Cytometry

The Cytometry Facility has as its objective to provide scientific and technical support in Flow Cytometry to the projects on the Can Ruti Campus, and to other centres in the national health system.

Manager: Marco Fernández Sanmartin

Technician: Gerard Requena Fernández

Cryobiology

The Cryobiology Facility has as its objective to provide the space and resources necessary to guarantee the correct preservation of biological samples used in the research projects at the institute.

Manager: Eugeni Aragall Cànovas

Microscopy

The objective is to provide scientific and technical consultation services to research groups and health care providers in the field of microscopy, image analysis and related disciplines.

Manager: M^a Pilar Armengol Barnils

Technician: Gerard Requena Fernández

RESEARCH AREAS AND GROUPS

Here you will find the distribution of research groups in the IGTP:

	LEADER
1. Medical complications of substance abuse	Dr. Robert Muga
2. Mental Health Study Group	Dr. Crisanto Díez
MEDICAL CONSEQUENCES OF SUBSTANCE USE DISORDER	
3. Immunopathology	Dra. Eva M ^a Martínez Cáceres
4. Immunology of Diabetes	Dra. Marta Vives Pi
5. Immunological and inflammatory skin diseases	Dr. Carlos Ferrandiz
ENFERMEDADES CARDIOVASCULARES Y RESPIRATORIAS	
6. Cardiovascular Disease Research	Dr. Antoni Bayés Genís
7. Respiratory Disease Research	Dr. Joan Ruiz Manzano
8. Venous Thrombotic Disease Research	Dr. Manel Monreal
ENFERMEDADES INFECCIOSAS	
9. Clinical and Experimental Microbiology	Dra Laura Matas
10. Experimental Tuberculosis Unit	Dr. Joan-Pere Cardona
11. Clinical Virology and New Diagnostic Approaches Research Group	Dra. Elisa Martró
12. Innovation in Respiratory Infections and Tuberculosis Diagnosis	Dr. José Domínguez
13. Basic and Clinical AIDS Research	Dr. Bonaventura Clotet
14. Infectious and Respiratory Disease Research Group (Legionella)	Dr. Miquel Sabrià
15. Plasmodium Vivax and Exosome Research (PVREX)	Dr. Hernando A del Portillo
16. Research Group for Sepsis in the Critically Ill	Dr. Juan Carlos Yébenes
17. Muscosal Immunology Group	Dra. Meritxell Genescà
ENDOCRINE AND DISEASES OF THE METABOLISM, BONES AND KIDNEYS	
18. Endocrine and Obesity Research Group	Dr. Manel Puig-Domingo
19. Diabetes Research Group	Dr. Dídac Mauricio
20. Obesity and type 2 diabetes: adipose tissue biollog	Dr. David Sánchez-Infantes
21. Bone and Rheumatoid Illnesses Research	Dr. Alejandro Olivè
22. Kidney affecting diseases	Dr. Josep Bonet Sol
23. IVECAT - Innovation in Vesicles and Cells for Application in Therapy)	Dr. Francesc E. Borràs
24. Urological Disease Research Group	Dr. Luis Ibarz
25. Sarcopenia, Fragility and Dependence Research Group	Dr. Mateu Serra Prat
DISEASES OF THE LIVER AND DIGESTIVE TRACT	
26. Digestive Inflammatory Pathology Research Group	Dr. Eugeni Domènech
27. Higher Digestive Tract Motility Research Group	Dr. Pere Clavé
28. Dynamic Intestinal Function Research Group	Dr. Jordi Serra
29. Innate Immunity	Dra. Maria-Rosa Sarrias
30. Translational Endoscopy Research Group	Dr. Vicente Lorenzo-Zúñiga
CANCER	
31. Epigenetics of Colon Cancer	Dr. Manuel Perucho
32. Epigenetics Mechanisms of Cancer and Cell Differentiation	Dr. Miguel A. Peinado
33. Endocrine regulatory genomics	Dr. Lorenzo Pasquali
34. Endocrine regulatory genomics	Dra. Mireia Jordà
35. Genetic Epidemiology of Lung Cancer	Dr. Jun Yokota
36. Hereditary Cancer	Dr. Eduard Serra
37. Tumor histopathology and Neuropathology	Dr. Aurelio Ariza
38. Cerebral Tumors	Dra. Carme Balañà

39. Breast Cancer	Dr. Francesc Julian
40. Skin Cancer	Dr José Luis Manzano
41. Maresme Area Oncology Research Group	Dra. Pilar Lianes
42. Resistance, chemotherapy and predictive biomarkers	Dra. Eva Martínez Balibrea
43. Childhood Liver Oncology (c-LOG)	Dra. Carolina Armengol
44. Cancer Biology and Precision Medicine	Dr. Rafael Rossell
45. Leukaemia Research	Dr. Francesc Solé
NEUROSCIENCE	
46. Vascular Pathologies of the Brain	Dr. Antoni Dávalos
47. Cellular and Molecular Neurobiology	Dra. Teresa Gasull
48. Neurohabilitation and Cognitive Stimulation	Dr. Tormos
49. Multiple Sclerosis Research Group	Dra. Cristina Ramo
50. Neuromuscular and Neuropaediatric Research	Dra. Gisela Nogales
51. Neurogenetics	Dr. Antoni Matilla
HEALTH AND THE COMMUNITY	
52. Epidemiology of HIV/STIs and Global Health (CEEISCAT)	Dr. Jordi Casabona
53. Acquired Pneumonias in the Community	Dr. Jordi Almirall

MEDICAL CONSEQUENCES OF SUBSTANCE USE DISORDER

1. MEDICAL COMPLICATIONS OF SUBSTANCE ABUSE

This is a clinical research group focussed on the complications that arise from alcohol and drug abuse, particularly opiates and cocaine. The group is financed by public agencies and Themes networked funding by the Ministry of Health (RETICS-ISCIII), in this case the Addictive Disorders Network (RTA).

RESEARCH LINES

Medical Complications associated with alcohol abuse

To characterize comorbidity of patients requesting treatment for disorders due to alcohol abuse: Alcoholic hepatopathology, immunological alterations, malnutrition, cardiovascular risk, neurological risk and HIV infection, amongst other pathologies being studied.

Monitoring HIV and hepatitis B and C virus in patients with disorders due to alcohol or drug abuse

To establish diagnostics, clinical evaluation and access to treatment of viral infection in users of alcohol and drugs. To analyse the risk of developing diseases such as cancer, AIDS or liver cirrhosis and also risk of death due to infections.

Mortality associated with disorders due to alcohol and drug abuse

To describe the long-term evolution of patients who abuse drugs and alcohol and detail the causes of death in function of comorbidity when they seek treatment

Leader:

Dr. Robert Muga Bustamente

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2. MENTAL HEALTH STUDY GROUP

Research Group dedicated to clinical research in mental health

RESEARCH LINES:

- Biomarkers of inflammation and oxidative and nitroactive stress as prediction factors for depression.
-
- cadores de inflamación y estrés oxidativo y nitrosactivocomo factores de predicción de depresión.
- Liaison Psychiatry

Leader:

Dr Crisanto Díez Quevedo

secpsiquiatria.germanstrias@gencat.cat

IMMUNOLOGY AND INFLAMMATION

3. IMMUNOPATOLOGY

The Immunopathology research group is within the Immunology Service of the Germans Trias Hospital. It is made up of an experienced interdisciplinary team that is highly motivated to carry out translational research and give support to clinical teams who are developing their own research projects to examine the mechanisms of the immune response.

In the laboratory there are advanced immunopathology diagnostics services (including: autoimmunity, allergies, immunochemistry, cellular immunology and immunodeficiency, amongst others), histocompatibility and various panels for immune monitoring of immune-mediated illnesses and immunological treatments (immune-modulating drugs, monoclonal antibodies, cellular therapies and other immunotherapeutic procedures). Since 2008 the group has been developing new immune tolerance-inducing therapies.

The team is made up of researchers, pre-doctoral researchers and technicians who carry out prestigious research projects in the national and international arenas. The laboratory is one of 14 centres of European excellence recognized by the Federation of Clinical Immunological Societies (FOCIS). Since 2009 it is a Consolidated Group as recognized by the Agency for Management of University and Research Grants of the Generalitat of Catalonia. It is also the coordinator for a European network consisting of the most important groups in the field of tolerogenic cellular therapies for autoimmunity, severe allergies and transplants in the field (European Action COST BM1305-AFACTT) (www.afactt.eu; www.cost.eu).

RESEARCH LINES:

- Innovation and Diagnostic Immunology
- Clinical Epidemiology Research
- Immune therapies inducing tolerance
- Immune therapies inducing tolerance
- Neuroimmunology: Cellular tolerance therapy in multiple sclerosis

Leader:

Dra. Eva M^a Martínez Cáceres

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4. IMMUNOLOGY OF DIABETES

The research group dedicated to the immunology of diabetes carries out both basic and translational research with the aim of developing preventive immunotherapeutic for Type 1 Diabetes and to identify the mechanisms of pathogenicity and regeneration in auto-immune diseases.

LÍNEAS DE INVESTIGACIÓN:

- Immunotherapies for the prevention and treatment of diabetes Type 1
- Biomarkers for the regeneration of autoimmune diseases
- Pathogenic mechanisms of autoimmunity

Leader:

Dra. Marta Vives Pi

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5. ENFERMEDADES INMUNOLÓGICAS E INFLAMATORIAS DE LA PIEL

Dermatology includes a wide range of immune-based inflammatory dermatological processes. Some are processes in which the skin is the organ fundamentally affected and of these we can highlight psoriasis, atopic dermatitis, contact allergic dermatitis and urticaria. In other cases the affect on the skin is secondary and these should be included in multi-systemic diseases in which the skin may or may not be affected. In recent years our understanding of the pathology has increased enormously, which has meant a parallel advance in treatments. Despite this, there are still many gaps that remain to be understood and clarified and many therapeutic strategies to be optimized.

RESEARCH LINES:

- Psoriasis
- Pathogenic pathway studies
- Optimización terapéutica
- Epidemiología

Responsable:

Dr. Carlos Ferrandiz

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CARDIOVASCULAR AND RESPIRATORY DISEASES

6. CARDIOVASCULAR DISEASE

The objective of the Heart Institute is to carry out research that will increase the development of new treatments for heart disease by better understanding its origins and progression. This way will improve the quality of life for heart patients.

The Heart Failure Research group and the Heart Regeneration Research Group (ICREC), based at the IGTP and led by Dr Antoni Bayés Genis is focussed on two principal areas: one purely clinical and one more translational. On the clinical side the group searches for biomarkers for diagnostics and prognostics for heart failure and develops technology related to Telemedicine. On the

basic/translational side the group is interested in studying the potential for regeneration of different types of stem cells (derived from adipose cardiac tissue and blood or umbilical cord, amongst other sources) and in therapeutic approaches based on engineering tissues to safeguard and restore myocardium damaged during infarction.

The ICREC group is made up of researchers experienced in cell techniques and decellurization, repopulation and implantation of biological meshes. The ICREC group also counts on highly skilled personnel with experience of mouse and pig models of myocardial infarction.

RESEARCH LINES

Cardiac Regeneration

- Stem cells
- Tissue engineering and search for new therapies for cardiac regeneration
- Miocariopathologies

Heart Failure

- Biomarkers
- Diagnostics, prognostics and treatments

Coronary Surgery Research Group

- Analysis and validation of new stents
- Structural Cardiopathology: Clinical and prognostic evaluation of aortic percutaneous valves
- Nanoparticle therapies

Arrhythmias and Electrophysiology

- Study of AntiRho antibody in auriculo-ventricular blockage
- Blockage of inter-auricular risk of tachyarrhythmias
- Auricular sphericalization and auricular fibrillation
- New parametres in electrostimulating units

Acute Coronary Syndrome

- To seek anatomical, clinical and biological predictors of adverse ventricular remodeling
- To evaluate cost-effectiveness of triple treatment (AAS + IECA + statins) in patients with acute coronary syndrome
- Contribution/Maintenance of heart disease registries (Codi Infart, SPARC, RETAKO, hypothermia)

Coronary Imaging

- Sever asymptomatic aortic stenosis
- Infectious endocarditis
- Mitral insufficiency and mitral plasties
- Tricuspid insufficiency and pulmonary hypertension
- Marfan Syndrome
- Congenital cardiopathologies of Adults
- Nuclear and Infusion magnetic cardioresonance
- Cardiotoxicity of chemotherapy

Leader:

Dr. Antoni Bayés Genís

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7. RESPIRATORY DISEASE RESEARCH

The research group for Respiratory Disease Research is a member of the Networked Biomedical Research Centre (CIBER) dedicated to COPD, cancer, tuberculosis and bioengineering. It is also a National Centre of Excellence for Endobronchial Fibroscopy.

The group is active in several collaborations, for example with the Polytechnic University and Insitute of Bioengineering of Catalonia and participates in Phase II and IV clinical trials. The group holds one patent and two more are in the pipeline.

RESEARCH LINES:

- Lung Cancer with the Institut Català d'Oncologia (ICO)
- Respiratory biosignals
- Asma genètics and Sleep obstructive apnea syndrome (SOAS)
- Telemedicine in COPD (Chronic obstructive pulmonary disease) and SAOS
- Tuberculosis (via the [Experimental Tuberculosis Unit](#)) and respiratory infections
- Surgical techniques in Pneumonology: reduction of lung volume with endoscopy, cryobiopsy and thermoplasty.

Leader:

Dr. Joan Ruiz Manzano, Head of Pneumonology Service

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8. VENOUS THROMBOTIC DISEASE RESEARCH

The venous thromboembolic disease research group is based within the Internal Medicine Unit at the Germans Trias Hospital. The group participates in other multidisciplinary teams from other hospitals and it has the objective of improving our knowledge of the natural history and treatment of deep vein thrombosis, superficial thrombosis and pulmonary embolism.

The team consists of one doctor who deals with both outpatients and patients admitted to different units of the hospital, who have thromboembolic disorders.

Leader:

Dr. Manel Monreal

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INFECTIOUS DISEASES

9. CLINICAL AND EXPERIMENTAL MICROBIOLOGY

The research group centres its activity on the development, standardization and clinical evaluation of microbiological, immunological and molecular techniques for use in diagnostic of infectious diseases. Additionally, part of the research effort is dedicated to the development of experimental models in infectious pathologies, the study of the underlying molecular mechanisms and microbial resistance as well as the evaluation of antimicrobial activity of new antiseptics and disinfectants.

RESEARCH LINES:

- Research lines in tuberculosis in the context of the Spanish network CibeRes.
- Projects related to host-micro-organism interactions in the context of CibeRes
- Epidemiological studies of sexually transmitted diseases, such as HIV, HCV in the context of CibeRes
- Research on Clinical Virology and New Diagnostic Approaches
- Sepsis
- Antiseptics and disinfectants

Leader:

Dra Lurdes Matas

(+34) 93 4978894

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10. EXPERIMENTAL TUBERCULOSIS UNIT (UTE)

The Unitat de Tuberculosi Experimental (Experimental Tuberculosis Unit, UTE), was founded by Dr. Pere-Joan Cardona in 1997. It is located in the Can Ruti Campus as a unit of the IGTP and it is part of the Clinical and Experimental Research Group (2009 SGR 1485, led by Pr. V. Ausina) and the CRP-TB Consortium of the CIBERES net, funded by the Spanish Government; and linked to the University (Microbiology and Genetics Department, Faculty of Medicine, Universitat Autònoma de Barcelona)

RESEARCH LINES:

- Experimental modelling of TB
- Evaluation of new prophylactic and therapeutic strategies against TB
- Nyaditum resae® (NR) Project
- Study of the role of inflammation in TB and its modulation through Host-Directed Therapies (HDT)

Leaders:

Dr. Joan-Pere Cardona and Dra. Cristina Vilaplana

(+34) 93 497 8681

pjcardona@igtp.cat - cvilaplana@igtp.cat

11. Virology and New Diagnostic Approaches Research Group

The research group working on Virology and new diagnostic approaches carries out multidisciplinary translational research to improve diagnostic techniques, prognostics and management of infections caused by viruses and other pathogens that impact public health.

RESEARCH LINES:

- Hepatitis C (HCv)
- Other viral infections
- Epidemiology of sexually transmitted infections

Leader:

Dr. Elisa Martró

(+34) 93 4978894

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12. INNOVATION IN RESPIRATORY INFECTIONS AND TUBERCULOSIS DIAGNOSIS

The group is working in the field of the respiratory infections and tuberculosis, improving the understanding of the host-pathogen interaction, and exploring new approaches in the diagnosis and therapies.

The group collaborates closely with the Department of Microbiology and also with the Departments of Pediatrics, Pneumology, Intensive care and the Departments for Prevention at the Germans Trias University hospital.

RESEARCH LINES:

- Host-pathogen Interactions
- Characterization of Immune Response
- Intracellular Resistance Model
- Innovation in Diagnostic Technology
- New Diagnostic Approaches

Leader:

Dr. José Domínguez, Principal investigator

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jadominguez@igtp.cat

13. BASIC AND CLINICAL RESEARCH INTO HIV

Research into infection by HIV on the Can Ruti Campus is carried out at the IrsiCaixa AIDS Research Institute and the Fight Aids Foundation (FLS). The IGTP and IrsiCaixa researchers work jointly on various projects under collaboration agreements.

IrsiCaixa

RESEARCH LINES:

- Prevention, eradication and functional cure
- Microbiome
- New treatments and anti-retroviral resistance
- Immunopathogenesis
- Other diseases

Fight Aids Foundation

RESEARCH LINES:

- Clinical Virology and Microbiota genome
- Aging and complications associated with HIV and anti-retrovirals
- Clinical Pharmacology
- Co-infection and hepatitis cohorts
- Co-infection with Human Papilloma Virus and opportunistic infections.
- Immunology and Vaccines
- Psychology
- Dietetics

Leader:

Dr. Bonaventura Clotet, President of the Fight AIDS Foundation and Director of IrsiCaixa.

IrsiCaixa

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<http://www.irsicaixa.es/es/research>

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Fight AIDS Foundation/Fundación Lucha contra el SIDA
(+34) 934 657 897
<https://www.fl sida.org/en/research-lines>
info@flsida.org

14. INFECTIONS AND RESPIRATORY DISEASE RESEARCH GROUP (LEGIONELLA)

This multidisciplinary group, made up of researchers from the Infectious Diseases International Health Unit of the Germans Trias Hospital and Pneumology Services of the Parc Tauli Hospital has several lines of research. These include clinical, microbiology and molecular biology research. The group has been carrying out collaborative research within the the Research Networks of the Instituto Carlos III, firstly in the network Respira (RTic CO3/11), then in the Research Centre Network (CIBER) created in 2007. It is also a consolidated group as recognized by the Generalitat of Catalunya (AGAUR: 2014 SGR801). The main aim is to carry out clinical and translational research into infectious and respiratory diseases.

RESEARCH LINES:

- Infectious diseases
- Legionella
- Chronic Obstructive Pulmonary Disease (COPD)
- Cancer

Leader:

Dr. Miquel Sabrià
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15. PLASMODIUM VIVAX AND EXOSOMES RESEARCH (PVREX)

The group brings their expertise in malaria and exosome research with a very strong motivation to produce translational impact. The group uses a series of molecular and cellular biology technologies combined with immunoepidemiological studies in endemic regions of vivax malaria (i) to study the biology of the parasite, (ii) to unveil mechanistic insights into anaemia and splenomegaly, and (iii) to discover new antigens for vaccinations. In addition, the group is pioneering the use of reticulocyte-derived exosomes as a new vaccine and platform against malaria.

RESEARCH LINES:

- Exosomes derived from reticulocytes as a new vaccination tool against malaria for Plasmodium vivax
- Antigen detection
- Spleen function, cytoadherence and pathology
- Studies of gene function and cultivation of P. vivax
- Biomarker discovery

- Exosoma vaccinations against untreated tropical diseases

Leader

Dr. Hernando A del Portillo

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16. RESEARCH ON SEPSIS IN THE CRITICALLY ILL GROUP

This group has recently been incorporated into the IGTP, it comprises intensive care units in different Catalan hospitals, where research into critically ill patients and nosocomial infection in these patients is carried out.

Leader:

Dr. Juan Carlos Yébenes

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17. MUCOSAL IMMUNOLOGY

This laboratory focuses on female genital tract immunity and mucosal vaccine development against sexually transmitted infections (STI). The group is interested in defining the nature of protective immune responses against pathogens that use the cervicovaginal mucosa as their portal of entry, such as Chlamydia or HIV. One of the ultimate goals of their research is to determine how to induce and evaluate an effective vaccine-induced immune response at the level of the genital mucosa. The group collaborates with several basic and clinical research groups in order to conduct translational comparative medicine.

RESEARCH LINES:

- Biomarkers for immunity in the genital mucosa (immunological correlates for protection)
- New molecules as adjuvants for mucosa vaccine development
- Immunopathology for bacterial infection and its implications for coinfection with HIV

Leader:

Dr. Meritxell Genescà Ferrer

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ENDOCRINE AND DISEASES OF THE METABOLISM, BONES AND KIDNEYS

18. ENDOCRINOLOGY AND OBESITY

The Endocrine and Obesity Research group is coordinated by Prof Manuel Puig-Domingo, who is currently Head of the of Endocrinology and Nutrition Service at Germans Trias Hospital, Professor of Endocrinology at the Germans Trias Unit of the Faculty of Medicine of Autonomous University of Barcelona, and Scientific Director of Germans Trias Research Institute. He is also serving as President of the Spanish Society of Endocrinology and Nutrition (2015-2017). The group was formed in 2010 and is part of CIBERER.

RESEARCH LINES:

- Molecular phenotype of pituitary tumours and the application of personalized medicine
- Thyroid pathology: thyroid function and gestation.
- Obesity

Leader:

Dr. Manel Puig-Domingo

Contact: Marta Carrió

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mcarrio@igtp.cat

19. DIABETES RESEARCH GROUP

The diabetes Research Group is coordinated by Dr Didac Mauricio, who is currently Acting Head of the of Endocrinology and Nutrition Service at Germans Trias Hospital. The group is part of the National Network for Biomedical Research (CIBER) Diabetes and associated metabolic diseases section (CIBEREM) of the Institut Carlos III.

RESEARCH LINES

- Study of atherosclerosis and other complications of diabetes
- Epidemiological studies of diabetes: studies based on real life

Leader

Dr. Didac Mauricio

Contact: Marta Carrió

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20. OBESITY AND TYPE 2 DIABETES: ADIPOSE TISSUE BIOLOGY

David Sánchez-Infantes is a Miguel Servet Investigator Funded by the Instituto Carlos III (National Institute of Health of Spain). He is an emerging principal investigator and his team focusses on the study of obesity and type 2 diabetes. They search for molecules secreted by white and brown

adipose tissue involved in the inflammatory state that occurs during the obesity. They also evaluate the capability of these molecules to inhibit/activate the brown adipose tissue and to modulate the properties of subcutaneous white adipose tissue, which is replaced by thermogenic beige adipose tissue (browning) in obesity. The goal of this group is to decipher why the excess of fat is inhibiting the normal activation and function of brown adipose tissue and browning, and to search for novel pharmacological approaches to treat obesity and related diseases.

RESEARCH LINES:

- New cytokines implicated in inhibition/activation of adipose tissue and brown adipose tissue function

Leader:

Dr. David Sánchez-Infantes
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21. GRUPO DE INVESTIGACIÓN EN ENFERMEDADES OSTEOMUSCULARES

El grupo realiza ensayos clínicos sobre nuevas terapias, mayoritariamente en el campo de la patología articular inflamatoria y la autoinmunitaria y participa activamente en grupos de trabajo de la Sociedad Catalana de Reumatología y de la Sociedad Española de Reumatología.

LÍNEAS DE INVESTIGACIÓN:

- Estudio de la artritis en edad avanzada
- Evaluación de la respuesta inmunitaria innata en pacientes con artritis psoriásica
- Efecto de la inflamación sobre el metabolismo óseo
- Alteraciones del ritmo cardíaco en pacientes con lupus eritematoso sistémico

Responsable:

Dr. Alejandro Olivé
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22. RENAL DISEASES

The **Kidney-affecting Diseases Research Group** (in Spanish Recerca En Malalties d'Afectació Renal or REMAR) aims to deepen in the knowledge of the aetiopathogenic mechanisms of the diseases that affect kidneys, and to boost the translational research for the benefit of renal patients.

RESEARCH LINES:

- Exosomes in urine of transplant patients
- Morbid obesity and renal disease
- Proteomics and glomerular disease
- Mesenchymal stem cells in kidney transplant
- Peritoneal dialysis

Leader:
Dr. Josep Bonet Sol
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23. INNOVACIÓN EN VESICULAS Y CÉLULAS PARA APLICACIÓN EN TERAPIA

The IVECAT group is interested in the different aspects of nanovesicles such as exosomes and in different cells types such as Dendritic Cells and Mesenchymal Stem Cells, from basic research to clinical application. Our main focus are transplantation and renal related diseases.

RESEARCH LINES:

- Exosomes: new tools in the definition of biomarkers for renal and neurological disorders
- New strategies for the induction of tolerance in transplant

Leader:
Dr. Francesc E. Borràs
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feborras@igtp.cat

24. UROLOGICAL DISEASE RESEARCH GROUP

The group is focussed on the study of urological cancer, in particular vesical neoplasia. The team is carrying our an immunotherapy study of vesical cancer, the investigators on the study are Pedro Martínez and Cecilia Cabrera of IrsiCaixa.

Leader
Dr. Luis Ibarz Servio, Head of Urology Service
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25. GRUPO DE INVESTIGACIÓN DE SARCOPENIA Y FRAGILIDAD

This is a multidisciplinary group that includes epidemiologists, public health specialists, geriatricians, family physicians, internists, endocrinologists, rehabilitation specialists, clinical pharmacists, nurses, dietitians/nutritionists and social workers. It also includes predoctoral students and students from the Mataró Hospital.

The aim of the research is to study the physiology of gastrointestinal motility and physiopathology in the diseases that cause anorexia and fragility in the elderly.

RESEARCH LINES:

- Endocrinology of aging
- Polypharmacy in the elderly
- Recuperation, physical exercise and movement analysis
- Anorexia and nutrition in the elderly

Leader:

Dr. Mateu Serra Prat

Unitat de Recerca Hospital de Mataró Carretera de Cirera s/n 08304 Mataró (Barcelona)

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DISEASES OF THE LIVER AND DIGESTIVE TRACT

26. Digestive Inflammatory Pathology Research Group

The Unit has carried out cutting-edge research over the last 25 years which has meant that it has reached a level of excellence in intestinal healthcare and has set a national and international benchmark for the treatment of ulcerative colitis and Crohn's disease. In recent years the Unit established new lines of research in the field of irritable bowel syndrome and the improvement of therapeutic endoscopy. Understanding, innovating, explaining and training are important and integrated parts of our scientific task with a view to transferring our results to clinical practice. The team combines experts in different skills to ensure that research questions are tackled from the most experimental side (IGTP) to the most clinical side (HUGTP). The research lines are based on innovative research tools, which allow us to generate new hypotheses aimed at the development of a more personalized medicine, better therapies and improved patient management.

RESEARCH LINES:

- Physiopathology of intestinal inflammatory disease and therapeutic innovation
- Genetic and functional characterization of phenotypes relevant to clinical practice
- Post-operative recurrence (POR) of Crohn's disease
- Loss of response to corticosteroids in ulcerative colitis
- Neurogastroenterology and Research in endoscopic therapies

Leaders:

Dr. Eugeni Domènech Morral and Dr. Josep Manyé Almero

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josep.manye@ciberehd.org

27. HIGHER DIGESTIVE TRACT MOTILITY RESEARCH GROUP

The Higher Digestive Tract Motility Research Group is formed by senior researchers, postdoctoral researchers and fellows from the Hospital de Mataró. It has formed part of the Research Consortium Ciberehd (Spanish Ministry of Science) since 2007. The goal of the group is to study the physiology of gastrointestinal motility and the pathophysiology of diseases associated with alterations of gastrointestinal motility, which are prevalent diseases with a high impact on health and quality of life of the population. The group combines basic and clinical researchers organized around a General Hospital and the Department of Physiology at the UAB and translates its research activities into clinical practice (Clinical Guidelines and Position Statements). The group has been recognized and funded by the Agency Gestió d'Ajuts Universitaris i de Recerca GRC2014 SRG789 and CIBEREHD

RESEARCH LINES:

- Oropharyngeal dysphagia, risk factors and treatment
- Oropharyngeal dysphagia, malnutrition and pneumonia
- Colorectal motility
- Gastro-oesophageal Motility
- In vitro intestinal Motility

Leader:

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28. DYNAMIC INTESTINAL FUNCTION

This group focusses its research on the diseases that cause alterations in oesophageal motility.

Leader:

Dr. Jordi Serra Pueyo. Investigador principal
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29. INNATE IMMUNITY

The Innate Immunity group has been active since 2009 and is focussed on the study of Innate Immunity in health and disease. It is located in the IGTP, Can Ruti Campus, and it is part of the CIBEREhd Consortium of the Spanish Government (ISCIII). We are conducting research on three important aspects of human pathology: liver disease, atherosclerosis and bacterial infection.

Our aim is to define the role of Innate Immunity proteins as prognostic or diagnostic biomarkers of disease. We also aim at generating knowledge for the development of new pharmacological

agents that modulate Innate Immune responses. In this context, our interests are at present mostly centred on the role of macrophage protein CD5L in the control of immune homeostasis and inflammatory disease.

RESEARCH LINES:

- Role of Innate Immunity in liver disease
- 2-Role of CD5L and CD36 in the physiology of macrophages in atherosclerosis
- Role of CD5L in bacterial infection

Leader

Dr. Maria-Rosa Sarrias

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30. Translational Endoscopy Research Group GROUP

The Group of Translational Research in Endoscopy (TER Group), comprising members of the Digestive Endoscopy Unit of University Hospital Germans Trias (HUGTIP), and the Institute of Research Germans Trias (IGTP), aims to translational research the field of endoscopy, oriented to obtain clinical applicability, developing and optimizing new treatment techniques in endoscopy. The activity of the research lines has resulted in significant contributions that have increased knowledge in gastrointestinal endoscopy. Studies have led to diagnostic and therapeutic innovations to improve the clinical management of patients suffering from diseases of the digestive tract.

The combination on the one hand of experience in the specific techniques of advanced endoscopy, with proven capacity in this area, and secondly the experience in experimental animal models as well as the possibility of collaboration between researchers from different groups the CIBERehd network, comprised of a mix of technological possibilities difficult to find, and opens the possibility to grow and consolidate a multidisciplinary group for basic research, which seeks an obvious clinical applicability, opening new and original lines of research that advance in endoscopic treatment of gastrointestinal disorder.

RESEARCH LINES:

- Experimental Endoscopy
- Experimental Therapy
- Bioengineering
- Clinical Endoscopy
- Bowel Cleansing
- Optical Diagnosis

Leader:

Dr. Vicente Lorenzo-Zúñiga

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CANCER

31. EPIGENETICS OF COLON CANCER

The Epigenetics of Colon Cancer Group is led by Dr Manuel Perucho. Dr Perucho is currently director of the Program for Predictive and Personalized Medicine of Cancer at the IGTP. This group studies tumours of the intestinal tract, principally of the colon and stomach. The identification of tumours, with various types of genomic instability is useful to detect patients with familiar cancer and also to predict survival.

RESEARCH LINES:

- Molecular mechanisms of intestinal cancer pathogenesis
- Epigenetic biomarkers of susceptibility to cancer and metastatic spreading
- DNA demethylation as a predictor of the development of multiple colon cancers
- Genomics and epigenomics for the prediction of colorectal cancer

Leader:

Dr. Manuel Perucho

Contacto: Dr. Sergio Alonso

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32. EPIGENETIC MECHANISMS OF CANCER AND CELL DIFFERENTIATION

The Epigenetic Mechanisms of Cancer and Cell Differentiations Group now forms part of the Program for Predictive and Personalized Medicine of Cancer at the Germans Trias i Pujol Research Institute (IGPT) on the Can Ruti Campus.

The main focus of the research is the characterization of the molecular mechanisms underlying cancer cell programs and the identification of molecular markers with clinical applications.

RESEARCH LINES:

- Chromatin architecture in cell differentiation and cancer
- The role of repeat elements in genome structure and function. About half of the human genome is composed by repeat sequences
- Clinically oriented research on the epigenetic changes involved in human cancer.

- Epigenetic mechanisms during muscle lineage-commitment, cell activation and terminal differentiation

Leader:

Dr. Miguel A. Peinado

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33. ENDOCRINE REGULATORY GENOMICS

The group led by Lorenzo Pasquali combines the study of molecular genetics and bioinformatics analysis to understand the regulating mechanisms that control the cellular destiny of the central endocrine tissues and in endocrine tumours. How do these cell populations preserve their identity? Which molecular mechanisms are required to maintain their phenotype stable for decades? How are gene regulatory networks altered in pathological conditions?

The group combines molecular genetics and bioinformatic approaches to understand the regulatory mechanisms that control function and cell fate of the endocrine tissues central to diabetes.

The team is also contributing to the insulin-producing beta-cells regulatory genomics by maintaining and developing the “islet regulome browser” a web tool that allows the visualization of different classes of regulatory elements, together with enhancer clusters, transcription factor binding sites, and binding motifs in human pancreatic islets.

RESEARCH LINES:

- Unmasking the regulatory networks, in the insulin-producing pancreatic beta-cells, that prelude the onset of different forms of diabetes
- Identifying the regulatory changes underlying the loss of cell fate in neoplastic conditions such as in the neuroendocrine tumors

Leader:

Dr. Lorenzo Pasquali

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34. ENDOCRINE TUMORES

The endocrine system is a network of glands that secrete hormones, which influence almost every cell, organ and function of our body, therefore its dysregulation can lead to severe

symptoms. Endocrine disorders can be caused by a tumour in a gland. The endocrine tumour entity covers the full range of phenotypes from indolent and benign to the worst human cancer forms.

Our research aims at understanding the molecular mechanisms involved in the etiology and progression of endocrine tumours and at identifying diagnostic and prognostic biomarkers, predictors of response to therapy and novel therapeutic targets to improve the management of patients. Our research approach combines both genome-wide methodologies and specific techniques to analyze samples from patients with endocrine tumours and to address mechanistic and functional questions in cell lines.

RESEARCH LINES:

- Thyroid cancer
- Pituitary tumours

Leader:

Dra. Mireia Jordà
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35. EPIDEMIOLOGÍA GENÉTICA DEL CÁNCER DE PULMÓN

The Genetic Epidemiology of Lung Cancer, led by Jun Yokota, was formerly part of the Institute for Predictive and Personalized Medicine of Cancer. It is now part of the Program for Predictive and Personalized Medicine of Cancer at the IGTP.

Lung cancer is the leading cause of cancer death worldwide. To improve the outcome of patients with lung cancer, it is indispensable to understand the molecular pathways of lung cancer development and its progression. In particular, small cell lung cancer (SCLC) is the most aggressive type of lung cancer and, to date, no targetable genetic alterations have been identified except for the MYC family genes. The leader of this group has a great deal of experience in studying the molecular genetics of lung cancer. Therefore, the purpose of this group's work is to identify molecular targets for new therapies for SCLC among genes that are genetically altered in SCLC cells and to develop new therapies by targeting those gene products *in vivo*.

RESEARCH LINES:

- Identification of targetable genetic alterations for therapy in small cell lung cancer
- MYC suppression as a therapy for patients with small cell lung cancer

Leader

Dr. Jun Yokota
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36. HEREDITARY CANCER

The Hereditary Cancer Group, led by Eduard Serra, was previously the Genetic Variation and Cancer Group at the Institute for Predictive and Personalized Medicine of Cancer (IMPPC).

El Grupo de Cáncer Hereditario, dirigido por Eduard Serra, fue anteriormente el Grupo de Variación Genética y Cáncer en el Instituto de Medicina Predictiva y Personalizada del Cáncer (IMPPC).

Our group focuses on studying the genetic predisposition of humans to develop cancer. We study individuals who inherit certain mutated genes that predispose them to develop cancer and we also study the genetics of their tumors to understand the mechanisms leading to tumor development and progression. We use the baker's yeast *Saccharomyces cerevisiae* to do experimental tests that we cannot perform in humans. As cancer is a complex disease, our group is interested in studying in depth the genetic architecture of complex traits, which are still unknown. We believe our findings will also be useful for understanding what is happening in individuals who develop sporadic cancers, which are more common.

RESEARCH LINES:

- Family and hereditary cancer
- The genetics of somatic cells
- Yeast as an experimental model for the genetics of cancer
- Genetic architecture for complex traits

Leader:

Dr. Eduard Serra

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37. TUMOUR HISTOPATHOLOGY AND NEUROPATHOLOGY

The Tumor Histopathology and Neuropathology Group, based at the Department of Pathology of Germans Trias Hospital, is led by Prof Aurelio Ariza, MD, PhD. It is a multidisciplinary team composed of pathologists, biologists, and biochemists who work on human tissues, cells, and their products, collaborating with many other research groups on the campus. Their common strategy is to approach the molecular mechanisms of cancer (cutaneous, lymphoid, gastrointestinal, brain) and neurodegeneration (synucleinopathies) from a morphological perspective rooted in pathology.

The work of the group integrates morphomolecular and clinical approaches applicable to clinical and basic research within the same laboratories on a daily basis. This integration means that all the members of the group are engaged in truly translational research in an efficient and sustainable manner.

RESEARCH LINES:

- Skin tumours
- Lymphomas
- Gastrointestinal tumours
- Tumours of the central nervous system
- Genomics and transcriptomics of synucleinopathies

Leader:

Dr. Aurelio Ariza, Jefe Head of Anatomical pathology Service

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38. CEREBRAL TUMOURS

This group is carrying out research on various types of cerebral tumours, specializing in glioblastoma multiforme.

RESEARCH LINES:

- Glioblastoma multiforme

Leader:

Dr. Carme Balañà

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39. BREAST CANCER

This group is led by the Head of General Surgery, Dr Francesc Julián. His research activity focusses on an innovative line of basic research projects in bioengineering, tissue regeneration and experimental clinical research into new materials and surgical instrument development.

RESEARCH LINES:

- Biomaterials
- Surgical instruments

Leader:

Dr. Francesc Julian, Head of General Surgery

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40. SKIN TUMOURS

The research objectives of the Skin Tumours Group centre primarily on melanoma, although they also study non-melanoma cutaneous tumours, especially in patients who have received solid organ transplants.

RESEARCH LINES:

- Melanoma

Leader:

Dr. José Luis Manzano

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jlmanzano@iconcologia.net

41. MARESME AREA ONCOLOGICAL RESEARCH

Most of the work carried out by this group centres on the development of new pharmacological treatments.

RESEARCH LINES:

- Lung Cancer

Leader:

Dr. Pilar Lianes, Head of Oncology Service, Mataró Hospital

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42. RESISTENCE, CHEMOTHERAPY AND PREDICTIVE BIOMARKERS

The group studies the molecular processes through which tumor cells develop resistance to chemotherapy in the treatment of patients with colorectal cancer (CRC) and melanoma (MLN). By identifying the factors responsible for this chemoresistance, they aim to contribute to the discovery of biomarkers that will improve the selection of effective treatments and to the development of new therapeutic strategies. To achieve these goals, work centres on cell models of acquired resistance and analyzes gene or protein expression patterns as well as common genetic variants in genes that may be involved in the action of chemotherapy agents, using patient blood and/or tumor samples. The global objective is to optimize treatment to enhance prognosis and improve quality of life. The group forms part of the recently launched research program ProCURE (PROgram against Cancer RESistance) from the Catalan Institute of Oncology (ICO). Eva Martínez-Balibrea, Jose Luis Manzano, Laura Layos, Cristina Bugés and Vicenç Ruiz de Porras are members of the PREDVHICO (2014 SGR 1494), which is a recognized stable research group by the Generalitat de Catalunya.

RESEARCH LINES:

- Biomarcadores predictivos para la selección del tratamiento
- Desarrollo y estudio de modelos in vitro de resistencia adquirida a quimioterapia

Responsable:

Dra. Eva Martínez Balibrea

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43. ONCOLOGÍA DEL HÍGADO INFANTIL

The Childhood Oncology Group (c-LOG) forms part of the Gastroenterology Department at the Germans Trias i Pujol Hospital (HUGTiP). The group was created in 2010 with the objective of incrementing translational research in paediatric hepatic tumours, a rare disease with an incidence of 1 to 15 children diagnosed per million children per year.

Heptoblastoma (HB) and Hepatocellular carcinoma (HCC) are the predominant malignant hepatic cancers of early and late childhood respectively. Despite great advances in recent decades, which have improved results for patients of HB through chemotherapy and surgical procedures, there are few options for the 10-20% of patients who suffer immature tumours and metastasis. It is important to note that the survivors of cancer can suffer serious side effects. In contrast to HB, HCC has a worse prognostic and currently the only realistic possibility of cure for HCC is early diagnosis.

RESEARCH LINES:

- Establishment of the Childhood Liver Cancer Network (CLCN) collection
- ChILTERN Project
- Proteomic study of Hepatoblastoma
- Molecular characterization of childhood liver cancer by integrating RNA-sequencing, genomic and transcriptomic data
- Plasma proteomic profiling of adult patients with different degree of liver damage: identification of biomarkers of hepatocellular carcinoma

Leader:

Dr. Carolina Armengol
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44. TRANSLATIONAL RESEARCH IN LUNG CANCER

The group led by Rafael Rosell is a world leader in translational large cell lung cancer research. The group has described various mutations associated with specific signalling pathways, which have permitted the development of targeted drugs. Their work is a true example of precision medicine.

RESEARCH LINES:

- Signalling pathways in large cell lung cancer
- Drug Discovery for precision medicine of lung cancer

Leader

Dr Rafael Rosell
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45. LEUKAEMIA RESEARCH

Leukaemia research on the Can Ruti Campus is carried out at the Josep Carreras Leukaemia Research Institute (IJC) on its ICO-Germans Trias I Pujol Campus. The IJC groups work in full coordination with the other institutions on the campus and share basic facilities and support services. Their mission is to research basic, epidemiologic, preventive and clinical aspects of leukaemia and of other malignant haematological diseases.

RESEARCH GROUPS:

- Acute Lymphoblastic Leukaemia (LLA)
- Barcelona Endothelial Team (BET)
- Chromatin, Metabolism and Cell Fate
- Endocrine Regulatory Genomics
- Functional Cytometry
- Genetic and Epigenetics of Myeloid Neoplasms
- Immunohematology and Glycobiology
- Iron Metabolism: Regulation and Disease
- Leukaemia Stem Cells
- Lymphoid Neoplasms
- Multiple Myeloma
- Myelodysplastic Syndromes
- Regulatory Genomics
- Stem cells, mesenchymal cancer and development
- Stem Cell Transplantation

Leader:

Dr. Francesc Solé, IJC Director Can Ruti Campus

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NEUROCIENCIAS

46. PATOLOGÍAS VASCULARES DEL CEREBRO

The research area of cerebral vascular pathology at the Germans Trias Institute was set up in 2005 and is led by Antoni Dávalos, MD, PhD, Clinical Director of the Department of Neuroscience at the Germans Trias i Pujol Hospital. It is recognized and financed by the Agency for Management of University and Research Grants of the Generalitat of Catalonia (AGAUR) as an accredited emerging group and it forms part of the themed network RETICS-INVICTUS financed by the Instituto de Salud Carlos III.

RESEARCH LINES:

- Endovascular treatment of acute ictus
- Reperfusion endovenous therapies and neuroprotection
- New treatments for secondary prevention of ictus
- Futile Rechanneling in Ischemic Acute Stroke (FURIAS)

- Use of the RACE pre-hospital clinical scale to determine the level of specialization offered to patients with acute ictus in function of its severity and to organize new referral circuits for patients
- Asymptomatic cerebral atherosclerosis (AsIA Study): population study of prevalence of asymptomatic intracranial stenosis and its relation to vascular risk, cardiovascular risk and risk of dementia
- Study of intracranial plaques (PROYECTO CRYPTICAS): Study using new HRMR sequences of intracranial atherosclerotic plaques in atherothrombotic ictus and cryptogenic ictus
- Neuroplasticity, cognitive function and neuroimaging in ischemic cerebral ictus: study of cognitive prognostics, structural changes in white matter, functional RM and cognitive alternations in acute ictus
- Neurotoxicity of iron in cerebral ischemia
- STR01-STROKECHIP: Validation of a panel of biomarkers for precocious diagnostic of ictus and differentiation from analogous conditions and from ischemic ictus and haemorrhagic ictus
- Influence of grades of physical activity previous to ictus on functional prognostic, haemorrhagic transformation and arterial rechanneling in acute occlusion of the median cerebral artery

Leader:

Dr. Antoni Dávalos, Clinical Director Department of Neuroscience

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47. CELULAR AND MOLECULAR NEUROBIOLOGY

The objective of the Cellular & Molecular Neurobiology (CMN) research group at the IGTP is to foster basic and translational research in the stroke field. Our goal is to generate knowledge, test it into preclinical models of stroke and translate it to the clinical arena in order to provide a better life for stroke patients.

The group forms part of the larger group Vascular Pathologies of the Brain, led by Dr A Dávalos in the Department of Neuroscience at the Germans Trias i Pujol Hospital on the Can Ruti Campus.

RESEARCH LINES:

- New generation therapies to protect the brain after stroke
- Biomarkers for successful and differential diagnosis of stroke subtypes and personalized therapy
- In vivo molecular bioimaging to assess pathological hallmarks of stroke

Leader:

Dra. Teresa Gasull Dalmau

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48. NEUROREHABILITATION AND COGNITIVE STIMULATION

Translational research in neurorehabilitation and cognitive stimulation is carried out at the Guttmann University Institute in Neurorehabilitation, affiliated to the Autonomous University of Barcelona (UAB).

As a knowledge centre, the Guttmann Institute, a non-for-profit private entity, has as a mission to develop academic, scientific and research aspects of neurosciences in general, and in neurorehabilitation and technologies applied to personal autonomy, in particular.

RESEARCH LINES:

- Bioengineering and robotics applied to functional improvement)
- Neuroreparation and advanced therapies
- Neuropsychological rehabilitation and cognitive stimulation
Brain Health (Barcelona Brain Health Initiative)
- Non-invasive brain stimulation
- Comprehensive personalized neurorehabilitation
- Disability and social innovation
- Neuroscience and neural plasticity
- Pharmacological interventions in Neurorehabilitation

49. GRUPO DE INVESTIGACIÓN DE ESCLEROSIS MÚLTIPLE

The group carries out translational research using both experimental models and cellular therapy in humans. The researchers work closely with the Neurology and Immunology Departments.

RESEARCH LINES:

- Experimental Models
- Cellular Therapy

Leader:

Dr. Cristina Ramo

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50. NEUROMUSCULAR AND NEUROPAEDIATRIC RESEARCH

The neuromuscular and neuropediatric research group is made up of clinicians belonging to the hospital neurology and pediatric services and specialized basic researchers in the laboratory. This multidisciplinary team has the main objective of finding treatments for neuromuscular and neuropediatric diseases that have no cure yet. For this purpose the team relies on its extensive clinical expertise in the management of these patients and also will analyse a powerful patient database, which is under construction. In the laboratory, the team has broad expertise in genetic, transcriptomic and proteomic techniques to study the pathogenicity of the disease at the molecular level. The team is also experienced in testing treatments in vitro, in vivo and in patients. Additionally the researchers work on many collaborative projects with national and international investigators also involved in this line of research.

RESEARCH LINES:

- Myotonic dystrophy type I
- Myotonic dystrophy type II
- McArdel Disease or Glycogenesis type V

Leader:

Dr. Gisela Nogales Gadea

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gnogales@igtp.cat

51. NEUROGENETICS OF NEURODEGENERATIVE DISEASES

The Neurogenetics Research Unit was founded by Dr. Antoni Matilla in 2009. It is located in the Can Ruti Campus and is integrated within the Department of Neurosciences of the Hospital Germans Trias i Pujol (HUGTiP). It also provides genetics diagnoses to the Neurology and Pediatrics Services.

Scientific research in the Unit investigates the genetic and molecular mechanisms underlying neurodegenerative processes. The ultimate goal of the research is to identify genes, their products and molecular pathways involved in order to effectively provide genetic diagnosis and selective therapeutic approaches to patients. The Unit uses multidisciplinary strategies to identify genes, proteins and other gene products involved in the function and dysfunction of the nervous system by using next-generation RNA and DNA sequencing, functional assays, biochemical, proteomics, and molecular neurosignaling studies.

An important objective of the Unit is to identify and implement treatments for various neurodegenerative diseases. To achieve this, in 2015 the functional biology and experimental therapies laboratory (FBET) was established by Dr. Antoni Matilla and Dr. Ivelisse Sánchez. The laboratory uses gene therapy technology based on adenoassociated virus vectors (AAV), screenings of drug compounds and genetic libraries, and in vitro and in vivo preclinical testing of new therapeutic candidates.

Furthermore, we develop large-scale genomics technologies and bioinformatics tools to identify genetic causes underlying neurological diseases.

RESEARCH LINES:

- Identification of the genetic causes and molecular mechanisms underlying hereditary ataxias and paraplegias
- Therapeutic treatments in a mouse model of Friedreich Ataxia
- Therapeutic treatments in a mouse model of mucopolysaccharidosis IIIB (Sanfilippo syndrome B) type

- Identification of neurosignaling mechanisms and potential therapeutic targets
- Genetic diagnosis of more than 400 neurological diseases

Leader:

Dr. Antoni Matilla

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GLOBAL HEALTH

52. EPIDEMIOLOGY OF HIV/STIS AND GLOBAL HEALTH (CEEISCAT)

The Centre for Epidemiological Studies of Sexually Transmitted Disease and AIDS in Catalonia (CEEISCAT) is located on the Can Ruti Campus in the Germans Trias Hospital Building. It was constituted in 1995 to monitor the epidemiology of HIV/AIDS/STDs in Catalonia and to provide technical support for the senior management of the Public Health Department of the Ministry of Health of the Generalitat (the Autonomous Government of Catalonia), now known as the Public Health Agency of Catalonia, for its health programs on HIV/AIDS and STDs. It is a centre for research excellence that carries out applied research in this field. The CEEISCAT reports to the Secretary for Public Health and carries out its research activities within the Germans Trias Health Science Research Institute (IGTP).

A multidisciplinary team of professionals carries out the duties of the CEEISCAT using both formal epidemiological tracking systems and specific observational studies that make up the Integrated Epidemiological Surveillances System for HIV/AIDS/STDs in Catalonia (SIVES). Because most of the projects are carried out by multiple centres an essential and key aspect of the work is interaction with different national and international professional networks in clinical work, microbiology and epidemiology and also with NGOs that work with the target populations of the studies.

RESEARCH LINES:

- Modelling and new methods of monitoring outbreaks of HIV and sexually transmitted diseases (STDs)
- Evaluation of preventive interventions for HIV and STDs and measures to prevent and control them
- Implementation studies for operational research in early diagnosis of HIV
- Biological behavioural and structural determinants of the acquisition and propagation of communicable diseases in the immigrant population
- Metrics and social networks applied to the study of HIV and STDs
- Prevention and Reduction of Sexual Violence against Sex Workers in Guatemala

Leader:

Dr. Jordi Casabona i Barbarà, CEEISCAT Director

(+34) 93 497 8890

ceeiscat@iconcologia.net

53. ACQUIRED PNEUMONIAS IN THE COMMUNITY

The GEMPAC (Maresme Research Group for Community Acquired Pneumonia) is a consolidated group recognized by the Agency for University Grants of the Generalitat of Catalunya (AGAUR). It is physically located at the Maresme Health Consortium, which covers primary health care in the Maresme region and is centred in the Mataró Hospital and has a collaborative agreement with the IGTP for research activities. The group has been led by Dr Jordi Almirall for more than 25 years and carries out epidemiological studies for lower tract respiratory infections; these studies are coordinated by the Mataró Hospital. The group has made important contributions in the areas of incidence, microbiology, prognostic risk factors, costing, diagnostic errors and the value of inflammatory markers for the prediction of pneumonia and aetiological orientation.

The group has been awarded eight FIS grants in which different specialists have participated as principal investigator including family doctors, hospital specialists and house doctors, both from Mataró and other hospitals, nursing staff have also taken part.

RESEARCH LINES:

- Population study on acute COPD
- Study of risk factors for pneumonia in respiratory patients (asthma and COPD)
- Study of infectious comorbidity in patients admitted to hospital for acute COPD
- Study of risk factors for community acquired pneumonia

Leader:

Dr. Jordi Almirall

(+34) 93 7417747

jalmirall@csgm.cat

<http://www.csgm.es/>

FINANCIAL DATA: GLOBAL RESULTS

The global results are similar to the previous year, they show an income of 16.456.069€ and spending of 16.456.069€. Contracts, agreements and clinical trials represent 40% of the income of the IGTP, and essential source in the results sheet.

RESULTS SHEET

INCOME

	€
Clinical trials and contracts with industry	5.706.041
Donations	307.742

Offical subsidies for contracting personnel	978.594
Offical subsidies for general costs	2.305.293
Projects financed by offical organizations	2.144.288
Projects financed by European organizations	884.303
Projects financed by other non-official organizations	847.890
Other income	309.230
Project Overheads	797.515
Capital grants transferred to income	1.194.674
Tasks performed by the company on fixed assets	943.947
Financial revenue	36.551
TOTAL	16.456.069

GASTOS	€
Consumption	1.789.157
Wages and salaries	6.430.955
Social Security quotas	1.878.248
Depreciation for the period	1.308.273
Repairs and maintenance	445.739
External services	2.042.860
Supplies	483.419
Taxes	117.098
Contracts with other entities	659.963
Financial costs	35.764
Other costs	1.264.594
TOTAL	16.456.069

	€
Total income	16.456.069
Total spending	16.456.069
TOTAL	0

INCOME STATEMENT

ASSET	
A) NON-CURRENT ASSET	19.628.827
Intangible fixed assets	8.797.646
Tangible fixed assets	10.815.804
Long term investments	2.500
Long term financial investments	12.876
A) ACTIVO CORRIENTE	35.274.139

Users, sponsors and other accounts receivable for activities	14.591.737
Short term financial investment	5.936.089
Short term accruals	76.378
Cash and others	14.669.936
TOTAL ASSETS	54.902.966

LIABILITIES	
A) NET EQUITY	20.046.318
Endowment fund	623.958
Surplus from previous years	7.087.252
Surplus	-
Subsidies, donations and legacies	12.335.109
B) NON-CURRENT ASSETS	20.761.042
Long term debts	19.889.761
Debts with entities within the group or associated LT	871.281
B) CURRENT ASSETS	14.095.605
Short term provision	43.459
Short term debts	6.717.257
Debts with entities within the group or associated ST	51.252
Creditors for activities and others	2.817.028
Short term depreciation	4.466.609
TOTAL ASSETS	54.902.966

RESEARCH ACTIVITY: RESEARCH PROJECTS

Number of research projects awarded in n 2016	30
Number of research projects active in n 2016	110

RESEARCH PROJECTS AWARDED IN 2016

In 2016 30 new research projects to be managed by the IGTP were awarded. They are the following:

1. Instituto de Salud Carlos III, Proyectos integrados de excelencia
Número de expediente: PIE16/00011
Título: Biomarkers and combinatorial drug targets for a personalized therapy for three major cancers.
Investigador Principal: BUSCHBECK , MARCUS
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 482.053€
2. Instituto de Salud Carlos III, Proyectos de investigacion en Salud
Número de expediente: PI16/00072
Título: VEXLIP - Vesículas Extracelulares en el líquido peritoneal: una nueva aproximación para la monitorización del impacto del tratamiento dialítico sobre la membrana peritoneal.
Investigador Principal: BORRAS SERRES, FRANCESC ENRIC
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 92.565€
3. Instituto de Salud Carlos III, Proyectos de investigacion en Salud
Número de expediente: PI16/01937
Título: Validación de biomarcadores plasmáticos de respuesta a corticoides e identificación de mecanismos epigenéticos asociados a la corticorefractariedad en la colitis ulcerosa.
Investigador Principal: DOMENECH MORRAL, EUGENI
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 98.615€
4. Instituto de Salud Carlos III, Proyectos de investigacion en Salud
Número de expediente: PI16/01912
Título: Nuevas aproximaciones diagnósticas y terapéuticas en el control de la infección y la enfermedad tuberculosa. INNOVA-4-TB
Investigador Principal: DOMINGUEZ BENITEZ, JOSE ANTONIO

Fecha de concesión/aprobación: 01/01/2017

Fecha de finalización: 31/12/2019

Importe concedido: 248.352€

5. Instituto de Salud Carlos III, Proyectos de investigación en Salud
Número de expediente: PI16/01800
Título: Estudio de las quimiocinas CXC y sus receptores como biomarcadores pronóstico y/o predictivos de respuesta y como posibles dianas terapéuticas en el cáncer colorrectal.
Investigador Principal: MARTINEZ BALIBREA, EVA
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 110.715€

6. Instituto de Salud Carlos III, Proyectos de investigación en Salud
Número de expediente: PI16/02032
Título: Estudio IMAGECAT. Neuroimagen multimodal de elección en la selección de pacientes con ictus agudo y respuesta favorable al tratamiento endovascular
Investigador Principal: MILLAN TORNE, MONICA
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 38.115€

7. Instituto de Salud Carlos III, Proyectos de investigación en Salud
Número de expediente: PI16/01347
Título: Nuevos productos de bajo coste para la desinfección en sistemas de agua: estudio de la eficiencia sobre Legionella
Investigador Principal: PEDRO-BOTET MONTOYA, MARIA LUISA / PÁRRAGA NIÑO, NOEMI
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 139.453€

8. Instituto de Salud Carlos III, Proyectos de investigación en Salud
Número de expediente: PI16/01849
Título: Validación y mejora de la escala RACE para la identificación de pacientes con ictus agudo candidatos a tratamiento endovascular mediante un sistema de telemedicina prehospitalario.
Investigador Principal: PEREZ DE LA OSSA HERRERO, NATALIA
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 68.365€

9. Instituto de Salud Carlos III, Proyectos de investigación en Salud
Número de expediente: PI16/01737
Título: Inducción de TOLERancia con células dendríticas tratadas con VITamina D3 y cargadas con péptidos de mielina, en pacientes con eSclerosis Múltiple: TolerVit-MS
Investigador Principal: RAMO TELLO, CRISTINA
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 104.665€

10. Instituto de Salud Carlos III, Proyectos de investigación en Salud
Número de expediente: PI16/00974
Título: Perfil fenotípico-funcional del macrófago en cirrosis y cáncer hepatocelular y su manifestación en plasma: nueva oportunidad pronóstico-terapéutica
Investigador Principal: SARRIAS FORNÉS, MARIA ROSA
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 80.465€

11. Instituto de Salud Carlos III, Proyectos de investigación en Salud
Número de expediente: PI16/01511
Título: Estudio de las lesiones tuberculosas obtenidas mediante cirugía torácica: en búsqueda de los biomarcadores que mejor correlacionan con la patología, la clínica y la epidemiología.
Investigador Principal: VILAPLANA MASSAGUER, CRISTINA
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 86.515€

12. Ministerio de Sanidad, Servicios Sociales e Igualdad
Proyectos de investigación en drogodependencias
Número de expediente: 2016/024
Título: Biomarcadores de daño agudo y exposición al alcohol tras consumo en atracón-binge drinking en jóvenes y menores
Investigador Principal: PAPASEIT FONTANET, ESTHER
Fecha de concesión/aprobación: 01/01/2017
Fecha de finalización: 31/12/2019
Importe concedido: 75.959€

13. Fundació La Marató de TV3
Ayudas a proyectos de investigación sobre enfermedades del corazón
Número de expediente: 201502 30 31
Título: iPS-derived cardiomyocytes in cardiac damage and regeneration.
Investigador Principal: BAYES GENIS, ANTONI
Fecha de concesión/aprobación: 15/03/2016
Fecha de finalización: 15/03/2019
Importe concedido: 373.086€

14. Fundació La Marató de TV3
Ayudas a proyectos de investigación sobre enfermedades del corazón
Número de expediente: 201527
Título: Non-invasive tissue characterization of the left atrium to guide ablation of atrial fibrillation and to predict procedural outcomes and disease progression.
Investigador Principal: DE ANTONIO FERRER, MARTA
Fecha de concesión/aprobación: 15/03/2016
Fecha de finalización: 15/03/2019
Importe concedido: 124.219€

15. Fundació La Marató de TV3

Ayudas a proyectos de investigación sobre enfermedades del corazón

Número de expediente: 201510 10

Título: In site Lung Ultrasound to Rule In Heart Failure Patients: Diagnostic accuracy and correlation with emergent cardiac biomarkers.

Investigador Principal: DOMINGO TEIXIDOR, MARIA DEL MAR

Fecha de concesión/aprobación: 15/03/2016

Fecha de finalización: 15/03/2019

Importe concedido: 248.852€

16. Fundació La Marató de TV3

Ayudas a proyectos de investigación sobre enfermedades del corazón

Número de expediente: 201516 10

Título: Combined adipose flap and myocardial scaffolds enriched by multifunctional extracellular vesicles for cardiac tissue engineering: pre-clinical and clinical studies.

Investigador Principal: GALVEZ MONTON, CAROLINA

Fecha de concesión/aprobación: 15/03/2016

Fecha de finalización: 15/03/2019

Importe concedido: 197.218€

17. Fundació La Marató de TV3

Ayudas a proyectos de investigación sobre enfermedades del corazón

Número de expediente: 201535 30 31

Título: Detection of structural faults in coronary artery-implanted stents through non-invasive techniques of microwave radiation.

Investigador Principal: RODRIGUEZ LEOR, ORIOL

Fecha de concesión/aprobación: 15/03/2016

Fecha de finalización: 15/03/2019

Importe concedido: 299.858€

18. Fundacion para la Innovacion y la prospectiva para la salud en España, Ayudas para la financiación de estudios de viabilidad de la innovación en Salud (FIPSE)

Número de expediente: 1396-15

Título: Células electromecánicamente estimuladas para terapia regenerativa 1.

Investigador Principal: BAYES GENIS, ANTONI

Fecha de concesión/aprobación: 15/02/2016

Fecha de finalización: 15/03/2017

Importe concedido: 35.000€

19. Comissió Europea, CHAFEA Call for Tender 2016

Número de expediente: 2015/38

Título: Behavioural Survey for HIV/AIDS and associated infections and a survey and tailored training for community based health workers to facilitate access and improve the quality of prevention, diagnosis of HIV/AIDS, STI and viral hepatitis and health care services for men who have sex with men

Investigador Principal: CASABONA BARBARA, JORDI

Fecha de concesión/aprobación: 01-01-2016

Fecha de finalización: 31-08-2019

Importe concedido: 120.000€

20. European Institute of Innovation & Technology , Spanish EIT Health.
Proof of Concept Plus (PoC-PLUS)
Número de expediente: PoC-24
Título: KN-150 as a subacute therapy for stroke (KASTS)
Investigador Principal: GASULL DALMAU, TERESA
Fecha de concesión/aprobación: 01/09/2016
Fecha de finalización: 01/05/2017
Importe concedido: 23.000€

21. European Centre for Disease Prevention and Control, Service Contract
Número de expediente: ECD.6543
Título: Data quality assessment of the HIV testing monitoring data collected during 2014-2015 within the CBVCT Network
Investigador Principal: CASABONA BARBARA, JORDI
Fecha de concesión/aprobación: 01/10/2016
Fecha de finalización: 30/04/2017
Importe concedido: 13.992€

22. Fundació "La Caixa", Caixaimpulse 2016
Número de expediente: CI16-00047
Título: Development of a technology for diagnosing non-tuberculous mycobacteria infection.
Investigador Principal: DOMINGUEZ BENITEZ, JOSE ANTONIO
Fecha de concesión/aprobación: 01/12/2016
Fecha de finalización: 01/12/2017
Importe concedido: 50.000€

23. Fundació "La Caixa", Caixaimpulse 2016
Número de expediente: CI16-00049
Título: A gene therapy strategy based on Adeno-Associated Virus (AAV) to treat Friedreich Ataxia.
Investigador Principal: MATILLA DUEÑAS, ANTONI
Fecha de concesión/aprobación: 01/12/2016
Fecha de finalización: 01/12/2017
Importe concedido: 50.000€

24. Agencia para la competitividad de la empresa de la Generalitat de Catalunya
Proyectos colaborativos de investigación, desarrollo y innovación, enmarcados en la RIS3CAT y en el Programa Operativo FEDER de Catalunya 2014-2020
Número de expediente: COMRDI15-1-0013-10
Título: Advancecat acceledora pel desenvolupament de teràpies avançades a Catalunya.
Investigador Principal: BAYES GENIS, ANTONI
Fecha de concesión/aprobación: 01/02/2016
Fecha de finalización: 31/01/2019
Importe concedido: 30.000€

25. GILEAD SCIENCES EUROPE LTD, Gilead Sciences Europe Ltd 2016
Número de expediente: HIV-IHQ-16-09/1827
Título: The COBATEST Network
Investigador Principal: CASABONA BARBARA, JORDI
Fecha de concesión/aprobación: 01/11/2016

Fecha de finalización: 01/11/2017

Importe concedido: 92.000€

26. Fundación Privada Olga Torres, Becas de investigación postdoctorales

Número de expediente: FOT_SF_2016

Título: Identification of chromatin biomarkers for predicting and sensitizing response to current treatments in colorectal cancer

Investigador Principal: FORCALES FERNANDEZ, SONIA

Fecha de concesión/aprobación: 01/01/2016

Fecha de finalización: 31/12/2016

Importe concedido: 55.281€

27. Fundació Infermeria i Societat, Ayudas a la investigación en enfermería

Número de expediente: PR-038/16

Título: Diseño y análisis métrico de una escala para valorar la alimentación oral de los recién nacidos prematuros alimentados por sonda nasogástrica

Investigador Principal: ALONSO FERNANDEZ, SERGIO

Fecha de concesión/aprobación: 11/10/2016

Fecha de finalización: 10/10/2019

Importe concedido: 3.850€

28. Fundació Infermeria i Societat, Ayudas a la investigación en enfermería

Número de expediente: PR-018/16

Título: Factores relacionados con el reingreso en paciente anciano ≥ 75 años de alto riesgo en la Unidad de Corta Estancia del servicio de urgencias del Hospital Universitari Germans Trias i Pujol.

Investigador Principal: BARROSO CASTAÑO, PATRICIA

Fecha de concesión/aprobación: 11/10/2016

Fecha de finalización: 10/10/2019

Importe concedido: 3.025€

29. Geteccu Faes Pharma, XIX Beca Geteccu Faes Pharma

Número de expediente: -

Título: Monitorización de la recurrencia postquirúrgica (RPQ) en la Enfermedad de Crohn (EC) mediante una estrategia basada en la determinación periódica de calprotectina fecal en pacientes con un primer control endoscópico negativo.

Investigador Principal: OLLER BRESKA, BLANCA

Fecha de concesión/aprobación: 01/01/2017

Fecha de finalización: 31/12/2018

Importe concedido: 12.000€

30. Sociedad Española de Neumología y Cirugía Torácica, Ayudas a la investigación SEPAR

Número de expediente: 023/2015

Título: Estudio de las lesiones tuberculosas obtenidas mediante cirugía torácica: en búsqueda de los biomarcadores que mejor correlacionen con la patología tuberculosa, las características clínicas, los casos de tuberculosis multi-resistentes a drogas y con el pronóstico.

Investigador Principal: VILAPLANA MASSAGUER, CRISTINA

Fecha de concesión/aprobación: 01/06/2016

Fecha de finalización: 31/05/2018

Importe concedido: 18.000€

RESEARCH PROJECTS ACTIVE EN 2016

During 2016 a total of 110 active research projects financed by public and private institutions.

The following is a table of Funding bodies:

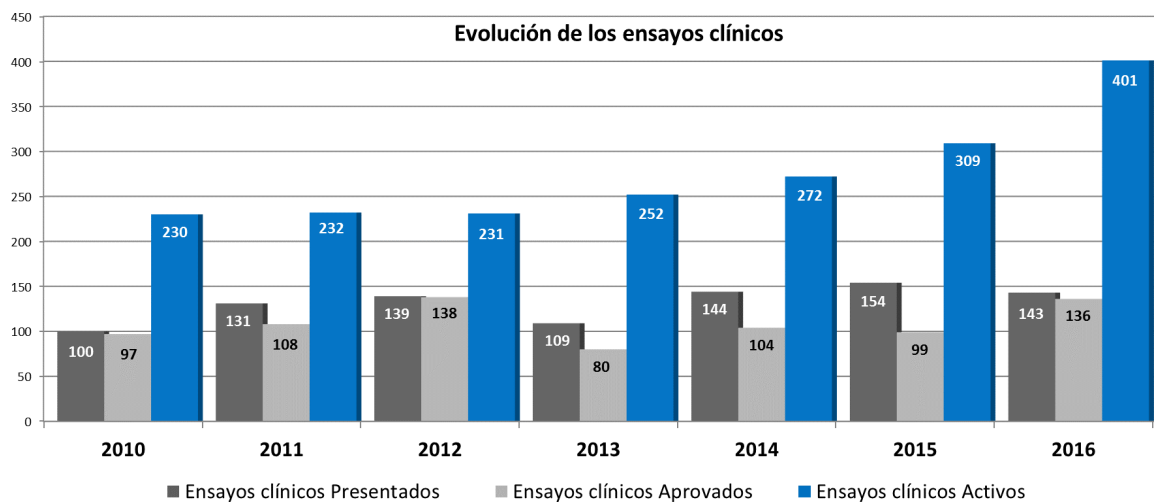
Instituto de Salud Carlos III	51
European Commission	8
Internacional	8
Ministerio de Economía y Competitividad	4
Ministerio de Sanidad, Servicios Sociales u Igualdad	3
Fundación La Marató TV3	9
Fundación La Caixa - CaixaImpulse	3
Fundación para la Investigación y la Prevención del Sida en España, Estudios de Viabilidad de las Innovaciones en Salud (FIPSE)	3
Agència per la competitivitat de l'empresa de la Generalitat de Catalunya	3
Other institutions	18
TOTAL	110

RESEARCH ACTIVITY: CLINICAL TRIALS

The Ethics Committee for Clinical Research (CEIC) of the IGTP/HUGTP is the body responsible for evaluating all the protocols of clinical trials and its objective is to have one valid ruling for the entire state.

There have been more clinical trials active in 2016 than in previous years.

	2010	2011	2012	2013	2014	2015	2016
Clinical trials presented	100	131	139	109	144	154	143
Clinical trials approved	97	108	138	80	104	99	136
Clinical trials active	230	232	231	252	272	287	401



SCIENTIFIC PRODUCTION PUBLICATIONS

One of the most important values of the IGTP is provided by the multiple institutions that make up the institute. This fact means that professionals on the Campus have different affiliations.

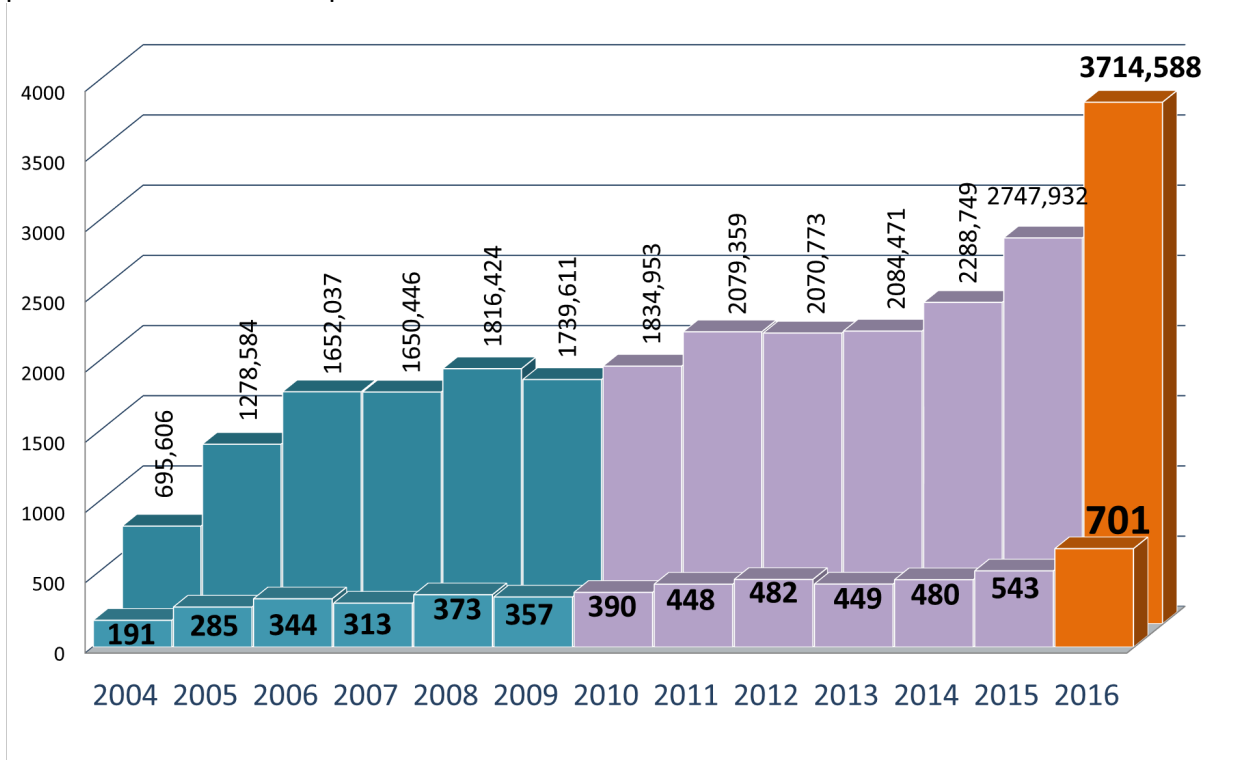
All the scientific communications generated by researchers on the Campus, whatever their affiliation, tend to be signed contractually by the Germans Trias i Pujol Research Institute. Professionals from other institutions make this link clear by adding this and their other official affiliation.

Following is a list of scientific production for the Campus Can Ruti. In [Annex 1](#), scientific articles indexed and published in 2016 are listed.

	2011	2012	2013	2014	2015	2016
Original articles published in indexed journals	448	482	449	480	543	701
Impact Factor	2079,359	2070,773	2084,471	2288,749	2747,932	3714,588
Articles first decile	92	93	82	108	136	141
Impact Factor first decile	1045,398	932,527	933,048	1127,821	1519,444	1936,763
% first decile	20,54%	19,29%	18,26%	22,50%	25,05%	20,11%
First decile	225	244	239	285	320	395
Impact factor first quartile	1627,75	1582,697	1623,489	1868,580	2280,432	3039,373
% first quartile	50,22%	50,62%	53,23%	59,38%	58,93%	56,35%
Principal investigators	99	98	105	110	132	163
Average impact factor	4,64	4,30	4,64	4,77	5,06	5,30
Average publications per researcher	4,52	4,92	4,27	4,36	4,11	4,30

EVOLUTION OF SCIENTIFIC PRODUCTION

In the figure below the scientific production of the last 13 years is shown as number of publications and total impact factor achieved.



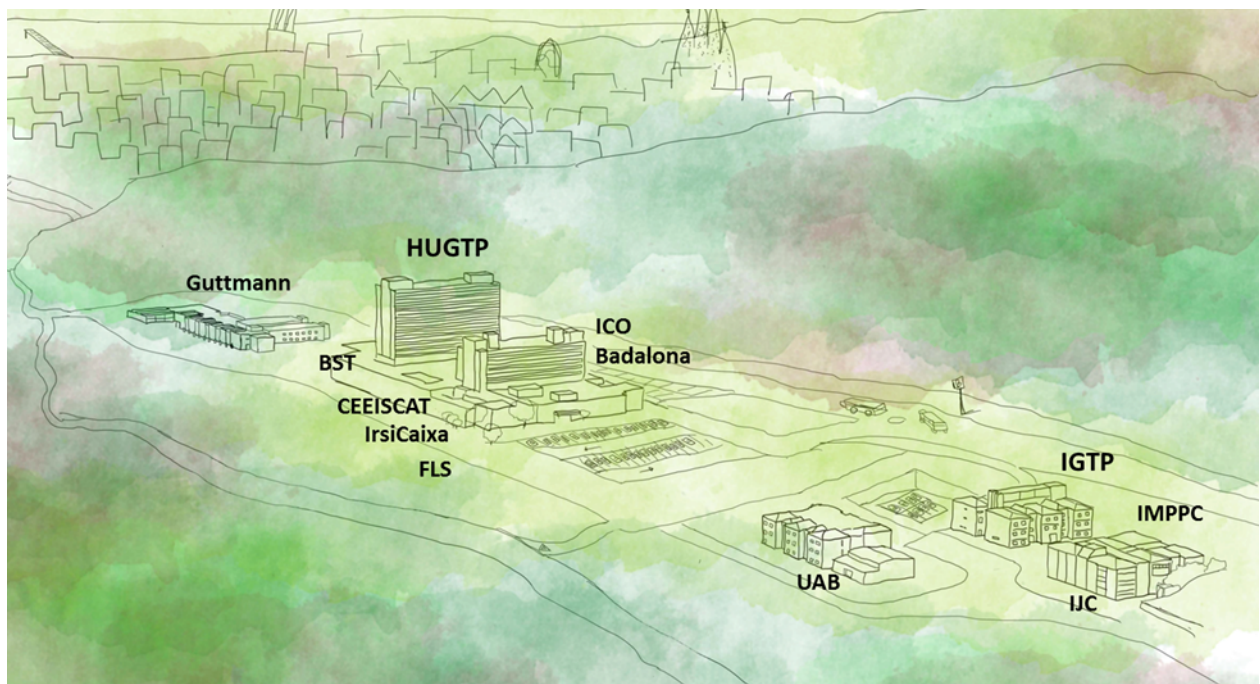
SCIENTIFIC PRODUCTION: PATENTS

The recent creation of the Innovation and Technology Transfer Unit has helped to increase the number of patents applied for by the IGTP.

Priority Patents	7
ESP	2
EU	4
US	1
PCT Applications	4
Patent families in national phases	2

ANNEX 1

LIST OF ORIGINAL ARTICLES PUBLISHED IN INDEXED JOURNALS IN 2016



1 Artículo

Abad J, Muñoz-Ferrer A, Cervantes MÁ, Esquinas C, Marin A, Martínez C, Morera J, Ruiz J.
Automatic Video Analysis for Obstructive Sleep Apnea Diagnosis. SLEEP 2016 Aug 1;39(8):1507-15. doi:
10.5665/sleep.6008.

PMID: 27253769

Quartil: 1

Impact Factor: 4,923

2 Artículo

Abraldes JG, Villanueva C, Aracil C, Turnes J, Hernandez-Guerra M, Genesca J, Rodriguez M, Castellote J,
García-Pagán JC, Torres F, Calleja JL, Albillos A, Bosch J; BLEPS Study Group (Morillas RM, Planas R).
Addition of Simvastatin to Standard Therapy for the Prevention of Variceal Rebleeding Does Not Reduce
Rebleeding but Increases Survival in Patients With Cirrhosis.

GASTROENTEROLOGY 2016 May;150(5):1160-1170.e3. doi: 10.1053/j.gastro.2016.01.004. Epub 2016 Jan
14.

PMID: 26774179

Quartil: 1

Impact Factor: 18,392

3 Artículo

Acero Fernández D, Morillas Cunill R, Ferri Iglesias MJ, Torras Collell X, Vergara Gómez M, Zaragoza Velasco N, López Nuñez C, Forné Bardera M, Delgado Gómez M, Barenys Lacha M, Torres Salinas M, Villar Fernández M, Durández Lázaro R, Mariño Mendez Z.

Predictive variables of sustained virological response after early discontinuation of triple therapy with telaprevir for genotype-1 HCV infection.

GASTROENT HEPAT-BARC 2016 Jun-Jul;39(6):377-84. doi: 10.1016/j.gastrohep.2015.10.005. Epub 2015 Nov 21. PMID: 26614733

Quartil: 4

Impact Factor: 0,917

4 Artículo

Achhra AC, Mocroft A, Reiss P, Sabin C, Ryom L, de Wit S, Smith CJ, d'Arminio Monforte A, Phillips A, Weber R, Lundgren J, Law MG; D:A:D Study Group.

Short-term weight gain after antiretroviral therapy initiation and subsequent risk of cardiovascular disease and diabetes: the D:A:D study.

HIV MED 2016 Apr;17(4):255-68. doi: 10.1111/hiv.12294. Epub 2015 Jul 28. PMID: 26216031

Quartil: 2

Impact Factor: 3,257

5 Artículo

Agüero F, Forner A, Manzardo C, Valdivieso A, Blanes M, Barcena R, Rafecas A, Castells L, Abradelo M, Torre-Cisneros J, Gonzalez-Dieguez L, Salcedo M, Serrano T, Jimenez-Perez M, Herrero JI, Gastaca M, Aguilera V, Fabregat J, Del Campo S, Bilbao I, Romero CJ, Moreno A, Rimola A, Miro JM; FIPSE Investigators.

Human immunodeficiency virus infection does not worsen prognosis of liver transplantation for hepatocellular carcinoma.

HEPATOLOGY 2016 Feb;63(2):488-98. doi: 10.1002/hep.28321. Epub 2016 Jan 4.

PMID: 26516761

Quartil: 1

Impact Factor: 13,246

6 Artículo

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