

SJD

Sant Joan de Déu
Institut de Recerca

ANNUAL SCIENTIFIC
REPORT
2019

science · innovation · commitment

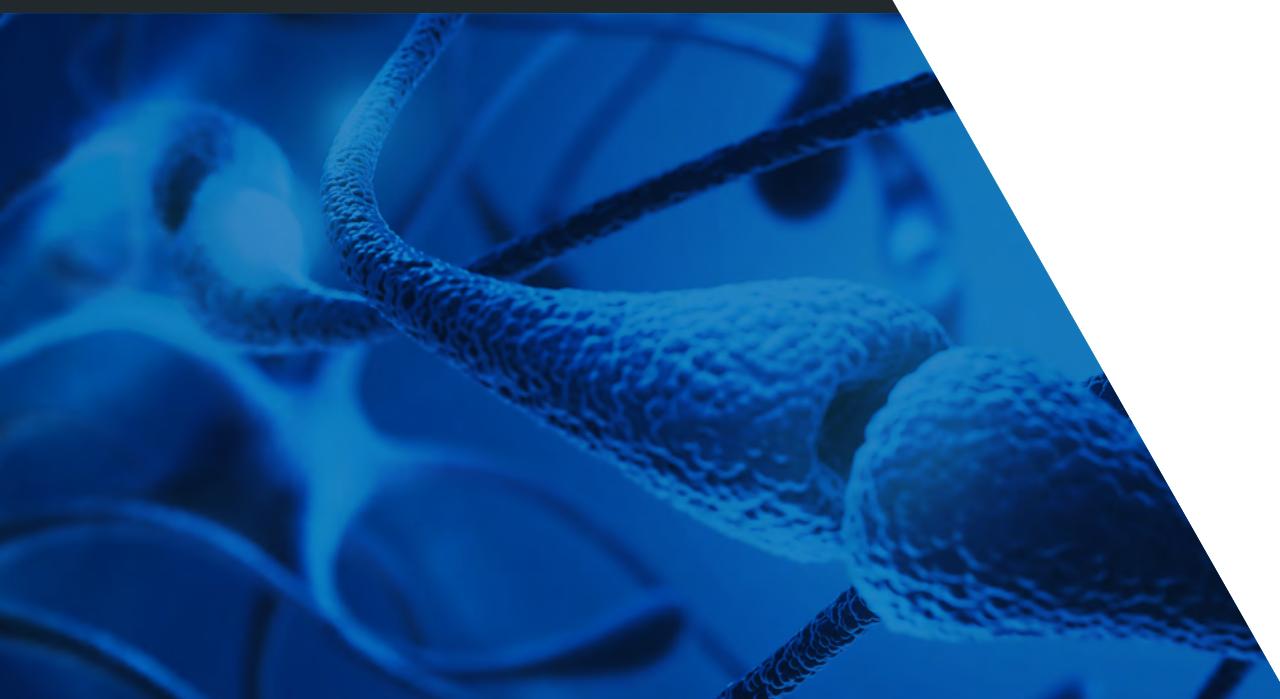
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FOREWORD

Director's foreword
Governance and structures
Global numbers 2019
Global numbers 2019-2015

Director's foreword

Once again, it is a great pleasure to present the work carried out at the Institut de Recerca Sant Joan de Déu (IRSJD). Within the framework of the IRSJD Strategic Plan, our scientific activity in 2019 has been structured around four main research programmes: Neurosciences; Adaptive Response, Metabolism and Immunobiology; Paediatric Cancer, and Health and Innovation Technologies. A fifth area has also been integrated, Associated Clinical Groups, consisting of research groups with a stronger patient care and clinical research profile. This annual report represents the joint effort of our team here at the Institute in carrying out high quality translational research.

Briefly summarising some of the other activities undertaken within the framework of the Strategic Plan, I should highlight, firstly, our new Research and Evaluation Career Plan created with the joint efforts of researchers and Scientific Management to establish and define the typology, classification

and evaluation of research personnel. Secondly, I should mention the efforts dedicated to creating shared spaces for scientific reflection and to foster further research and collaboration proposals. For example, we held a 1-day conference on innovation, ("Innovation Unconference" at the Research Centre for Biomedical Engineering (CREB) of Universitat Politècnica de Catalunya) and another on neuroscience ("The multi OMICS Day" at Hospital Sant Joan de Déu Barcelona). Finally, I must also expressly welcome on-board Dr Marisol Montolio (Scientific Director of the Duchenne Parent Project Spain) as a member of our external Scientific Committee at IRSJD, conferring on patients the voice they deserve.

The Institute's indicators for 2019 have remained stable, with improvements in some aspects, more competitive projects, more publications in prestigious journals and a considerable increase in the number of clinical trials. We must, therefore, congratulate

all those investigators who have made this possible. To mention just a few, I would like to highlight some of the especially relevant accomplishments of the Paediatric Cancer Programme: coordination of a new European project with strong ties with Latin America (M. Camós), coordination of three projects funded by *La Marató TV3* (J. Mora, C. Lavarino and A. Montero-Carcaboso) and participation in another (S. Mateo), and an excellent paper led by A. Montero-Carcaboso published in *Science Translational Medicine*. We also coordinated another European project in the area of Mental Health (JM. Haro), and participated in another ten projects, reinforcing the international collaboration of other researchers in other programmes. Furthermore, we have been awarded over twenty new projects under the National Plan for Scientific and Technical Research and Innovation which allow continuity of consolidated lines of research as well as opening of new ones. Our investigators

have published in the *Lancet Diabetes Endocrinology* (L. Ibáñez), *Neurology Neuroimmunology & Neuroinflammation* (L. Alsina), *British Journal of Pharmacology* (M. Vázquez), *Lancet Neurology* (J. Hoenicka), *Annals of Neurology* (M. Serrano), *Journal of the American Academy of Child & Adolescent Psychiatry* (E. Campodon-Rosanas), *Journal of Clinical Medicine* (R. Artuch), *Bioinformatics* (A. Perera) and *PLoS Computational Biology* (S. Picart). This is also evidence of rigorous efforts, scientific collaboration and translation of knowledge into clinical practice.

Finally, and having thanked you all again for this year's achievements, I would like to remind you that only by carrying out quality research in any of our specific areas can we consolidate our Research Institute as an international centre of excellence in Paediatric Medicine.

Francesc Palau Martínez
Director,
Institut de Recerca Sant Joan de Déu

Governance and structures

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RESEARCH COMMISSION

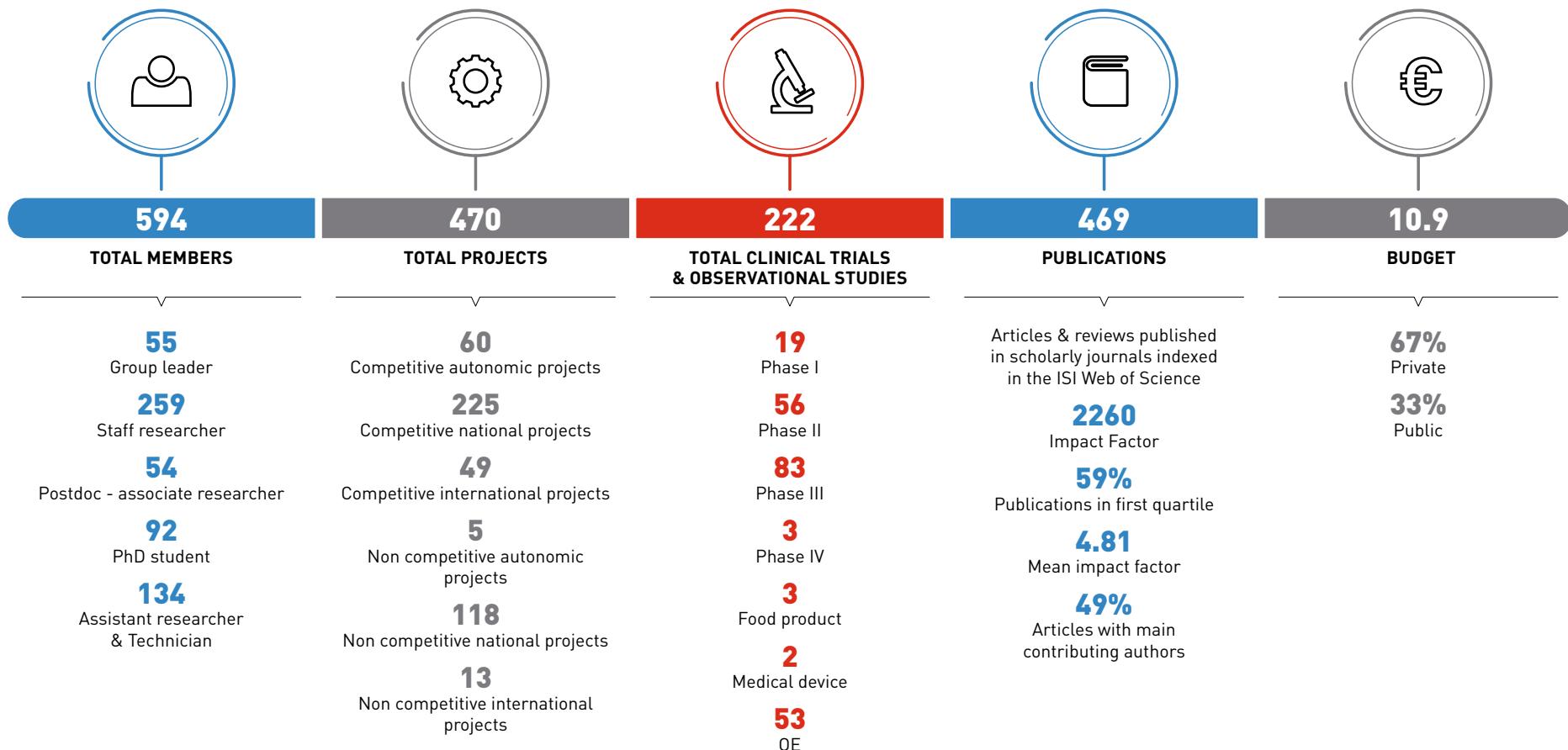
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President

Vocals

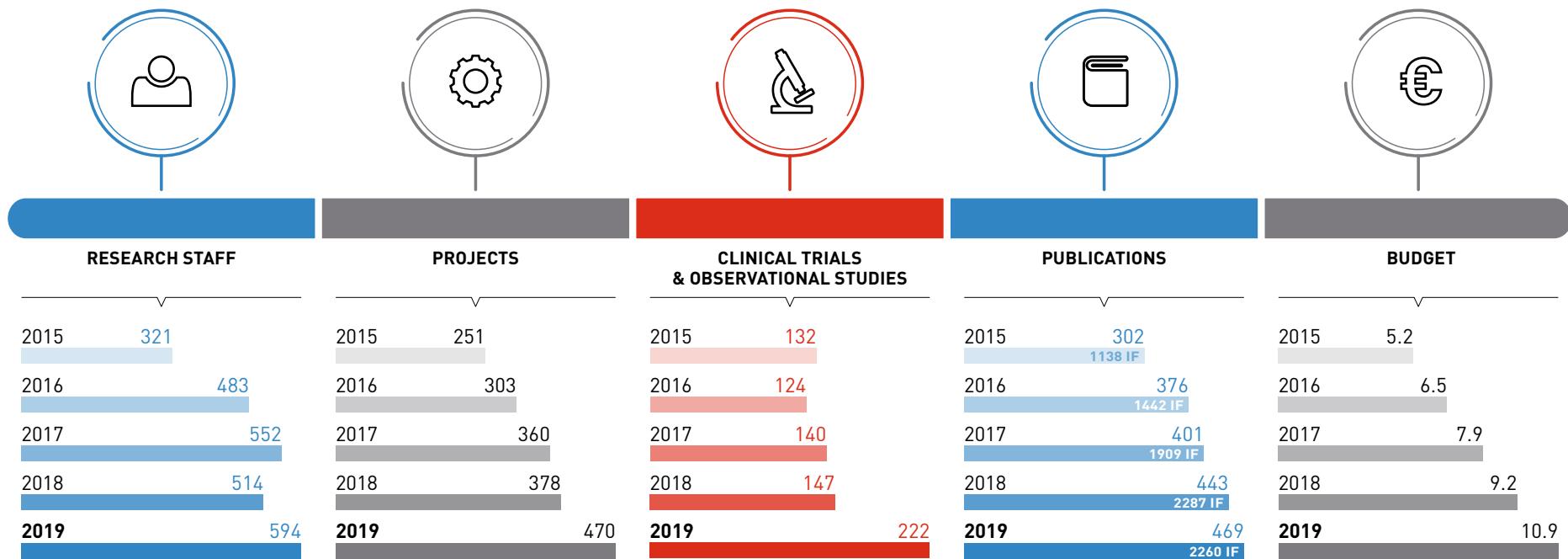
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Secretary

Global numbers 2019



Global numbers 2015-2019





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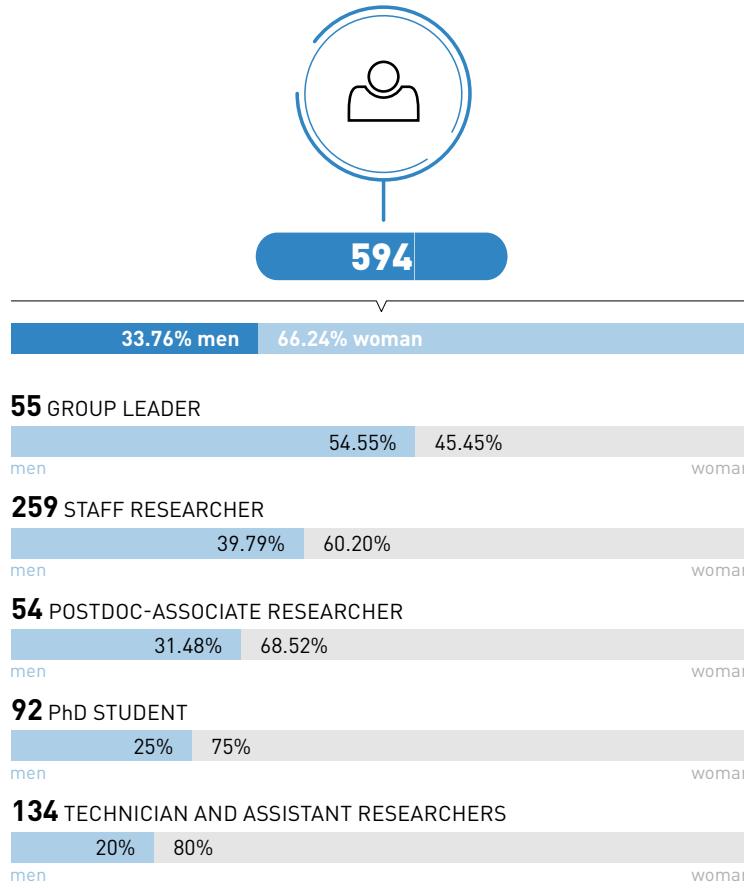
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STAFF

Research staff
HRS4R award



Research staff



HRS4R award

HRS4R

Human Resources Strategy for Researchers

WEB
[http://irsjd.org/ca/recerca/
hrs4r-hr-excellence-research/](http://irsjd.org/ca/recerca/hrs4r-hr-excellence-research/)

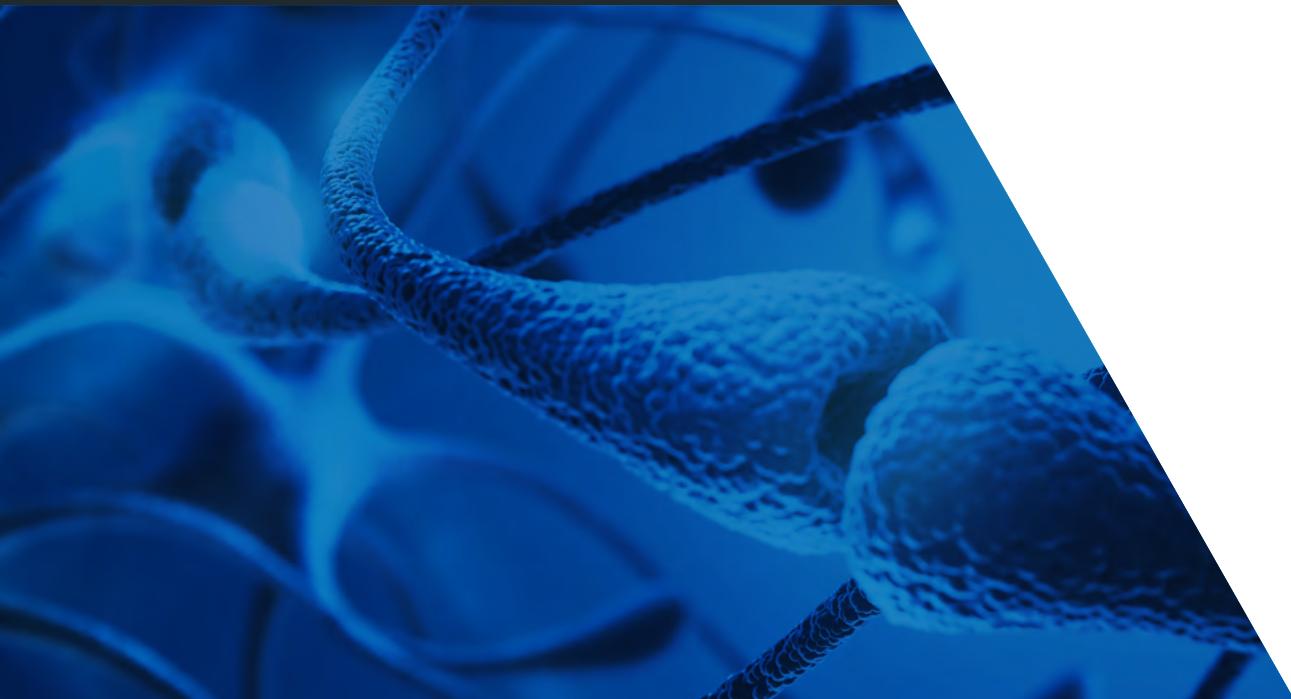
Fundació de Recerca Sant Joan de Déu is awarded with the logo "HR Excellence in research" since 2018. Thus, it has acquired a commitment to implement the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (Charter & Code) in their policies and practices.

In 2019, IRSJD is has implemented: Strength awareness, commitment and implementation of the Charter & Code criteria, Design and implement the FSJD's Researchers' Career Plan, Design and implement the FSJD's Career Evaluation Process, Design and implement the FSJD's Recruitment Procedure, based upon OTM-R criteria, Update the FSJD's Research Committee attributions, Define the FSJD's Tech Transfer Policy, Design and implement the FSJD's Gender Plan, Write the FSJD's Welcome Manual, Implementation of occupational risk prevention measures.



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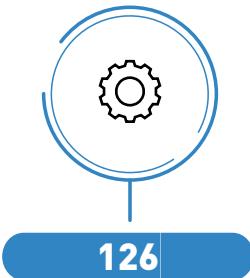
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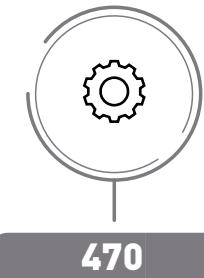
PROJECTS AND CLINICAL TRIALS

New projects
Active projects
Active clinical trials and observational studies
New clinical trials and observational studies

New projects

85 competitive | 41 non competitive

20 INTERNATIONAL	14	6	non competitive
competitive	non competitive		
88 NATIONAL	55	33	non competitive
competitive	non competitive		
18 AUTONOMIC	16	2	non competitive
competitive	non competitive		

Active projects

334 competitive | 136 non competitive

62 INTERNATIONAL	49	13	non competitive
competitive	non competitive		
343 NATIONAL	225	118	non competitive
competitive	non competitive		
65 AUTONOMIC	60	5	non competitive
competitive	non competitive		

Active clinical trials and observational studies

CLINICAL TRIALS by type
Phase I: 19
Phase II: 56
Phase III: 83
Phase IV: 3
Food product: 3
Medical Device: 2

222

Clinical trials and EPAS by research area

48	Oncology (41 Clinical trials 7 OE)
46	Paediatrics (36 Clinical trials 10 OE)
43	Neurology (36 Clinical trials 7 OE)
14	Endocrinology (5 Clinical trials 9 OE)
13	Clinical haematology (8 Clinical trials 5 OE)
10	Dermatology (8 Clinical trials 2 OE)
8	Allergy and clinical immunology (4 Clinical trials 4 OE)
6	Neonatology (6 Clinical trials 0 OE)
6	Nephrology (3 Clinical trials 3 OE)
5	Gastroenterology, hepatology and nutrition (3 Clinical trials 2 OE)
5	Gynaecology and obstetrics (2 Clinical trials 3 OE)
3	Anaesthesia (0 Clinical trials 3 OE)
3	UCI (3 Clinical trials 0 OE)
3	Ophthalmology (3 Clinical trials 0 OE)
3	Orthopaedics and traumatology (2 Clinical trials 1 OE)
2	Psychiatry and psychology (2 Clinical trials 0 OE)
2	Rehabilitation and physical medicine (2 Clinical trials 0 OE)
1	Cardiology (1 Clinical trials 0 OE)
1	Surgery (1 Clinical trials 0 OE)

New clinical trials and observational studies

CLINICAL TRIALS by type
Phase I: 8
Phase II: 14
Phase III: 23
Phase IV: 1
Medical Device: 1

53

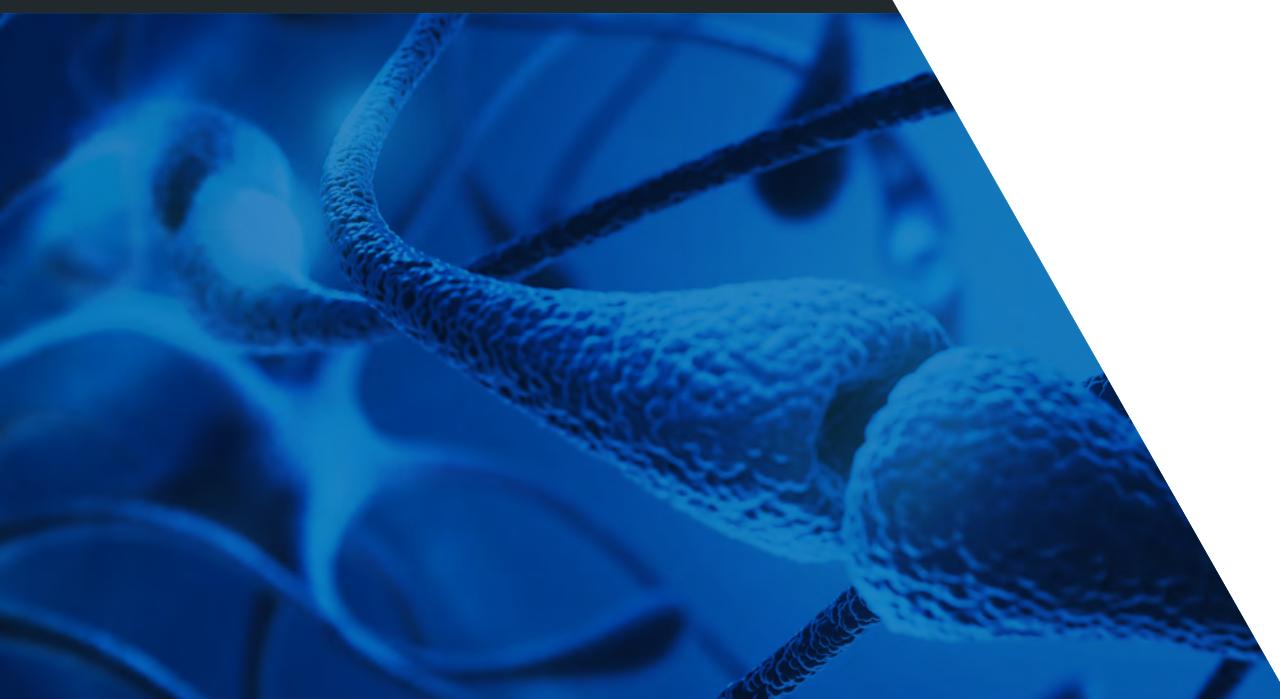
Clinical trials and EPAS by research area

13	Neurology (12 Clinical trials 1 OE)
11	Oncology (8 Clinical trials 3 OE)
8	Paediatrics (8 Clinical trials 0 OE)
5	Dermatology (4 Clinical trials 1 OE)
2	Allergy and clinical immunology (2 Clinical trials 0 OE)
2	Clinical haematology (1 Clinical trials 1 OE)
2	Endocrinology (2 Clinical trials 0 OE)
2	Ophthalmology (2 Clinical trials 0 OE)
2	UCI (2 Clinical trials 0 OE)
1	Cardiology (1 Clinical trials 0 OE)
1	Gastroenterology, hepatology and nutrition (1 Clinical trials 0 OE)
1	Nephrology (1 Clinical trials 0 OE)
1	Neonatology (1 Clinical trials 0 OE)
1	Orthopaedics and traumatology (1 Clinical trials 0 OE)
1	Rehabilitation and physical medicine (1 Clinical trials 0 OE)



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SCIENTIFIC PRODUCTION AND RESULTS

Scientific publications
Highest impact factor journals
Patents and utility models
Thesis

Scientific publications

	Output	Total IF	Mean IF	% Q1	% D1
Article	468	2259	4.8	59.40%	22.40%
Editorial material	6	17	2.8	33.33%	16.67%
Letter	18	102	5.7	61.11%	38.89%
Review	1	2	2.1	0.00%	0.00%
Total general	493	2380	4.8	59.03%	22.92%

Highest impact factor journals

Original articles in first decil journals

Number of orginal articles in first decil journals · 37

Journal	Total articles	IF
NAT COMMUN	4	11,878
JAMA Pediatr	3	12,004
Nat Genet	3	25,455
NAT MED	3	30,641
AGEING RES REV	2	10,390
Ann Rheum Dis	2	14,299
Lancet Psychiatry	2	18,329
Acta Neuropathol	1	18,174
Blood	1	16,601
CIRC RES	1	15,862
EMBO MOL MED	1	10,624
J ALLERGY CLIN IMMUN	1	14,110
J Am Coll Cardiol	1	18,639

Journal	Total articles	IF
JAMA PSYCHIAT	1	15,916
LANCET DIABETES ENDO	1	24,540
LANCET HIV	1	14,753
Lancet Oncol	1	35,386
LANCET PUBLIC HEALTH	1	11,600
Mol Psychiatr	1	11,973
NAT HUM BEHAV	1	10,575
Nature	1	43,070
PROG RETIN EYE RES	1	11,768
SCI TRANSL MED	1	17,200
THORAX	1	10,307
World Psychiatry	1	34,024

Originals articles with IRSJD main contribution - 32

Original article	Journal	IF	Program
Martinez-Monseny T, Bolasell M, Callejón L, Cuadras-Palleja D, Freniche V, Itzep DC, Gassiot S, Arango P, Casas-Alba D, de la Morena E, Corral J, Montero-Sánchez R, Pérez-Cerdá C, Pérez-Dueñas B, Artuch-Iribarri R, Jaeken J, Serrano M and the CDG Span	Ann Neurol	9,496	Neuroscience
Kanaan-Izquierdo S, Ziyatdinov A, Burgueño MA and Perera A. Multiview: a software package for multiview pattern recognition methods.. <i>Bioinformatics</i> 2019. 35(16): 2877 - 2879. FI: 4,531(Q1)	Bioinformatics	4,531	Health Technologies and Innovation
Zarei M, Pujol E, Quesada T, Villarroya F, Barroso E, Vázquez S, Pizarro J, Palmer FX and Vazquez M. Oral administration of a new HRI activator as a new strategy to improve high-fat-diet-induced glucose intolerance, hepatic steatosis, and hypertriglyceri	BRIT J PHARMACOL	6,583	Adaptive response, metabolism and immunobiology
Birules J, Bosch L, Brieke R, Pons F and Lewkowicz DJ. Inside bilingualism: Language background modulates selective attention to a talker's mouth.. <i>Dev Sci</i> 2019. 22(3): e12755. FI: 4,096(Q1)	DEVELOPMENTAL SCI	4,096	Neuroscience
Cairo M, Campderros L, Gavalda A, Cereijo R, Delgado-Ángles A, Quesada T, Giralt M, Villarroya J and Villarroya F. Parkin controls brown adipose tissue plasticity in response to adaptive thermogenesis.. <i>Embo Rep</i> 2019. 20(5). FI: 8,383(Q1)	EMBO REP	8,383	Adaptive response, metabolism and immunobiology
Stickley A, Hans Oh, Sumiyoshi T, McKee M and Koyanagi A. Injury and depression among 212 039 individuals in 40 low- and middle-income countries.. <i>Epidemiol Psychiatr Sci</i> 2019. 29: 1 - 10. FI: 6,402(Q1)	EPIDEMIOL PSYCH SCI	6,402	Neuroscience
Ribas-Prats T, Almeida-Toledano L, Costa-Faidella J, Plana M, Corral MJ, Gómez-Roig MD and Escera C. The frequency-following response (FFR) to speech stimuli: A normative dataset in healthy newborns.. <i>Hear Res</i> 2019. 371: 28 - 39. FI: 2,952(Q1)	HEARING RES	2,952	Adaptive response, metabolism and immunobiology
Ashdown-Franks G, Vancampfort D, Firth J, Smith L, Sabiston CM, Stubbs B and Koyanagi A. Association of leisure-time sedentary behavior with fast food and carbonated soft drink consumption among 133,555 adolescents aged 12-15 years in 44 low- and middle-i	INT J BEHAV NUTR PHY	6,037	Neuroscience
Sánchez-Niubó A, Egea-Cortés L, Olaya B, Caballero FF, Ayuso-Mateos JL, Prina M, Bobak M, Arndt H, Tobiasz-Adamczyk B, Pajak A, Leonardi M, Koupil I, Panagiotakos D, Tamasiunas A, Scherbov S, Sanderson W, Koskinen S, Chatterji S and Haro JM. Cohort Profil	Int J Epidemiol	7,339	Neuroscience
Camprodón-Rosanas E, Pujol J, Martínez-Vilavella G, Blanco-Hinojo L, Medrano-Martorell S, Batlle S, Forns J, Ribas-Fitó N, Dolz M and Sunyer J. Brain Structure and Function in School-Aged Children With Sluggish Cognitive Tempo Symptoms.. <i>J Am Acad Child</i> A	J AM ACAD CHILD PSY	6,391	Neuroscience
Koyanagi A, Hans Oh, Carvalho AF, Smith L, Haro JM, Vancampfort D, Stubbs B and DeVylder JE. Bullying Victimization and Suicide Attempt Among Adolescents Aged 12-15 Years From 48 Countries.. <i>J Am Acad Child Adolesc Psychiatry</i> 2019. 58(9): 907-918.e4. FI:	J AM ACAD CHILD PSY	6,391	Neuroscience

Original article	Journal	IF	Program
Adrián Pérez Aranda, Francesco D'Amico, Feliu-Soler A, McCracken LM, Peñarrubia-María MT, Andrés Rodríguez L, Angarita-Osorio N, Martin Knapp, García-Campayo J and Luciano JV. Cost-Utility of Mindfulness-Based Stress Reduction for Fibromyalgia versus a Mu	J CLIN MED	5,688	Neuroscience
Jou-Munoz C, Ortigoza-Escobar JD, O'Callaghan-Gordo M, Nascimento-Osorio A, Darling A, Pias-Peleteiro L, Pérez-Dueñas B, Pineda M, Codina-Bergadà A, Arjona-Fernandez C, Armstrong-Moron J, Palau F, Ribes A, Gort L, Tort F, Navas P, Ruiz-Pesini E, Emperador S, Lopez-Gallardo E, Bayona-Bafaluy P, Montero-Sánchez R, Jimenez-Mallebrera C, Garcia-Cazorla A, Montoya C, Yubero-Siles D and Artuch-Iribarri R. Muscle Involvement in a Large Cohort of Pediatric Patients with Genetic Diagnosis of Mitochondrial Disease. <i>J Clin Med</i> 2019. 8(1). FI: 5,688(Q1)	J CLIN MED	5,688	Neuroscience
Solé-Ribalta A, Rodríguez-Fanjul X, Juan Manuel Carretero Bellón, Pascual-Sala C, Martorell-Sampol L, Bobillo-Perez S and Morillo-Palomino A. Neonatal Marfan Syndrome: A Rare, Severe, and Life-Threatening Genetic Disease.. <i>J Pediatr</i> 2019. 211: 221-221.e2.	J PEDIATR-US	3,739	Adaptive response, metabolism and immunobiology
Berciano J and Natera-de Benito D. Description of Restrictively Defined Acute Flaccid Myelitis.. <i>JAMA Pediatr</i> 2019. 173(7): 701 - 702. FI: 12,004(Q1)	JAMA Pediatr	12,004	Neuroscience
Pons-Odena M, Medina A and Modesto-Alapont V. Treachery on the Rocks in the Pediatric Intensive Care Unit.. <i>JAMA Pediatr</i> 2019. 173(7): 699 - 699. FI: 12,004(Q1)	JAMA Pediatr	12,004	Adaptive response, metabolism and immunobiology
Ibañez-Toda L and de Zegher F. Exploring the use of metformin in pregnant women with polycystic ovary syndrome: new evidence, new wisdom. <i>Lancet Diabetes Endocrinol</i> 2019. 7(4): 242 - 243. FI: 24,540(Q1)	LANCET DIABETES ENDO	24,540	Adaptive response, metabolism and immunobiology
Botteri G, Salvadó L, Gumà A, Hamilton DL, Meakin PJ, Montagut G, Ashford MLJ, Ceperuelo-Mallafré V, Fernández-Veledo S, Vendrell J, Calderón-Dominguez M, Serra D, Herrero L, Pizarro J, Barroso E, Palmer FX and Vazquez M. Corrigendum to "The BACE1 produc	Metabolism	6,513	Adaptive response, metabolism and immunobiology
Cacciaglia R, Costa-Faidella J, Zarnowiec K, Grimm S and Escera C. Auditory predictions shape the neural responses to stimulus repetition and sensory change.. <i>Neuroimage</i> 2019. 186: 200 - 210. FI: 5,812(Q1)	NEUROIMAGE	5,812	Neuroscience
Armangue-Salvador T, Baucells BJ, Vilagea A, Petit-Pedrol M, Esteve-Sole A, Deyà-Martinez A, Ruiz-García R, Juan M, Pérez de Diego R, Dalmau J and Alsina L. Toll-like receptor 3 deficiency in autoimmune encephalitis post-herpes simplex encephalitis.. <i>Neuro</i>	NEUROL-NEUROIMMUNOL	7,353	Adaptive response, metabolism and immunobiology
Carrera-García L, Natera-de Benito D, Lleixà C, Ortez-Gonzalez CI, Colomer J, Nascimento-Osorio A, Saiz A, Dalmau J, Querol L and Armangue-Salvador T. Chronic inflammatory demyelinating polyneuropathy associated with contactin-1 antibodies in a child.. <i>Neurol Neuroimmunol Neuroinflamm</i> 2019. 6(5). FI: 7,353(Q1)	NEUROL-NEUROIMMUNOL	7,353	Neuroscience

Original article	Journal	IF	Program
Adrián Pérez Aranda, Andrés Rodríguez L, Feliu-Soler A, Nuñez C, Stephan-Otto C, Pastor-Mira MA, López-Roig S, Peñacoba C, Calandre EP, Slim M, Salgueiro M, Feixas G and Luciano JV. Clustering a large Spanish sample of patients with fibromyalgia using the	Pain	6,029	Neuroscience
Adrián Pérez Aranda, Feliu-Soler A, Montero-Marín J, García-Campayo J, Andrés Rodríguez L, Borràs X, Rozadilla-Sacanell A, Peñarrubia-María MT, Angarita-Osorio N, McCracken LM and Luciano JV. A randomized controlled efficacy trial of Mindfulness-Based Str	Pain	6,029	Neuroscience
de Sousa-Malpique RM, Sánchez-Infantes D, García-Beltran C, Taxerås SD, López-Bermejo A, de Zegher F and Ibañez-Toda L. Towards a circulating marker of hepato-visceral fat excess: S100A4 in adolescent girls with polycystic ovary syndrome Evidence from ran	Pediatr Obes	3,713	Adaptive response, metabolism and immunobiology
de Zegher F, de Sousa-Malpique RM, García-Beltran C and Ibañez-Toda L. Towards a simple marker of hepato-visceral adiposity and insulin resistance: The Z-score change from weight-at-birth to BMI-in-childhood.. Pediatr Obes 2019. 14(10): e12533. FI: 3,713[Pediatr Obes	3,713	Adaptive response, metabolism and immunobiology
Sebastiani G, García-Beltran C, Pie S, Guerra A, López-Bermejo A, Sanchez-de-Toledo J, de Zegher F, Rosés F and Ibañez-Toda L. The sequence of prenatal growth restraint and postnatal catch-up growth: normal heart but thicker intima-media and more pre-peri	Pediatr Obes	3,713	Adaptive response, metabolism and immunobiology
Picart S, Barrett SJ, Willé DR, Perera A, Gutteridge A and Dessailly BH. Benchmarking network propagation methods for disease gene identification.. PLOS COMPUT BIOL 2019. 15(9): e1007276. FI: 3,955(Q1)	PLoS Comput Biol	3,955	Health Technologies and Innovation
Jacob L, Haro JM and Koyanagi A. Association between intelligence quotient and violence perpetration in the English general population.. Psychol Med 2019. 49(8): 1316 - 1323. FI: 5,641(Q1)	Psychol Med	5,641	Neuroscience
Nuñez C, Stephan-Otto C, Usall J, Bioque M, Lobo A, González-Pinto A, Pina-Camacho L, Vieta E, Castro-Fornieles J, Rodriguez-Jimenez R, Butjosa Molines A, Janssen J, Bibiana Cabrera Llorca, Parellada M, Bernardo M and PEPs group. Neutrophil Count Is Assoc	SCHIZOPHRENIA BULL	7,289	Neuroscience
Pascual-Pastó G, Bazan-Peregrino M, Gene-Olaciregui N, Restrepo-Perdomo CA, Mato-Berciano A, Ottaviani D, Weber K, Correa MG, Paco-Mercader S, Vilà-Ubach M, Cuadrado-Vilanova M, Castillo-Ecija H, Botteri G, García-Gerique L, Moreno-Gilabert H, Giménez-Ale	SCI TRANSL MED	17,200	Paediatric cancer

Patents and utility models

Patents and license agreements

USE OF VIRAL VECTORS IN THE TREATMENT OF RETINOBLASTOMA

Date of grant: 28/02/2019
 Country of protection: US
 Grant number: US2019/0350992
 Applicants: VCN Biosciences SL; SJD Barcelona Children's Hospital
 Inventors: Manuel María Cascallo Piqueras; Miriam Bazan Peregrino; Angel Montero Carcaboso; Guillermo Luis Chantada

TREATMENT OF HEPATIC STEATOSIS RELATED OLIGO-OVULATION

Date of grant: 21/11/2019
 Country of protection: US
 Grant number: US2019/0060328
 Applicants: Katholieke Universiteit Leuven; SJD Barcelona Children's Hospital
 Inventors: Lourdes Ibáñez; Francis De Zegher

EQUIPMENT WITH BIOFEEDBACK FOR TRAINNING THE MUSCLES OF THE PELVIC FLOOR

Date of grant: 08/01/2019
 Country of protection: China
 Grant number: CN104703537A
 Applicants: Universitat Politècnica de Catalunya, Hospital Clínic de Barcelona
 Inventors: Montserrat Espuña Pons, Miguel Angel Mañanas Villanueva,

Amelia Perez Gonzalez, Juan José Ramos Castro

PORTABLE DEVICE AND METHOD FOR MEASURING ELECTROMYOGRAPHIC SIGNALS OF AN USER

Reference: EP3324843A1
 Applicants: Universitat Politècnica de Catalunya
 Inventors: Miguel Angel Mañanas Villanueva, Mónica Rojas Martinez
 Information about: Intention to grant announced (18/09/2019)

EQUIPMENT WITH BIOFEEDBACK FOR TRAINNING THE MUSCLES OF THE PELVIC FLOOR

Reference: US2019/0060328
 Applicants: Universitat Politècnica de Catalunya, Hospital Clínic de Barcelona
 Inventors: Montserrat Espuña Pons, Miguel Angel Mañanas Villanueva, Amelia Perez Gonzalez, Juan José Ramos Castro
 Information about: Information on status: patent application and granting procedure in general (21/11/2019)

Portfolio of spin-offs

BCN Innova

2008 · <http://www.bcninnova.com/>
[Dr. Joan Prat \(IRSJD\)](#)

BCN Innova, a spin-off company of Sant Joan de Déu-Barcelona Children's Hospital, has developed a device (GazeLab) that substantially improves the diagnosis and treatment of strabismus, reducing the number of second operations that are now performed to achieve the expected results.

- GazeLab offers two main benefits:
1. It allows objective exploration on a revolutionary level of precision, with much better results than the subjective-measurement model that has prevailed until now.
 2. It provides a 50% reduction in the number of second operations, obviating those which are surgically unnecessary.

CEBIOTEX

2012 · <http://www.cebiotex.com/>
[Dr. Joan Bertran Llavina \(CEO\)](#)
[Angel Montero \(IRSJD\)](#)

Cebiotex has developed and characterised at preclinical level, in vitro and in vivo, nonwoven nanofiber membranes for the local release of active ingredients in the local treatment of the surgical site after tumour excision surgery. The purpose of the local release of drugs is to achieve high concentrations of active ingredients in the area where the release device is placed, avoiding systemic toxicity and increasing the effectiveness of the drug against

possible tumoral remnants.

The activity of Cebiotex is based on the interaction of researchers from two Catalan institutions: the Polytechnic University of Catalonia (UPC) and Sant Joan de Déu-Barcelona Children's Hospital (HSJD).

OMADRE

2019 · <https://www.omadre.com/>
[Dr. Jaume Pérez Payarols \(IRSJD\)](#)

The company Omadre was created to provide hospitals with the tools required for the efficient management of mother's milk, increasing the safety of existing processes in this way.

DBGEN Ocular Genomics

2018 · <https://dbgen.com/>
[Co-founders Roser González-Duarte and Gemma Marfany](#)

DBGen is a company focused on the genetic diagnosis of hereditary eye disorders, providing the highest level of quality, diagnostic effectiveness and close contact with patients, ophthalmologists, and enterprises in need of its services.

At DBGen, we offer high-quality, reliable and accessible genetic diagnosis, allowing the clinical diagnosis to be assured and guidance to be provided to the patient with respect to emerging therapies for genetic disorders of the eyes. Genetic diagnosis is indispensable to identify family members possessing a genetic defect, permitting the most suitable advice to be given in each case.

Thesis

Thesis Author	Title	Thesis directors	Date
Natàlia Gorina-Careta	Contribution of the subcortical auditory pathway to the perception and processing of sounds	Carles Escera	January
A. Barrios-Luque	ECG como herramienta para diagnóstico para la enfermedad de Kawasaki	Georgia Sarquella Brugada	March
Elvira Reche Camba	Evaluación de la regulación emocional cognitiva en fibromialgia mediante el instrumento Cognitive Emotion Regulation Questionnaire (CERQ)	Xavier Borràs Hernández, Albert Felius Soler and Juan Vicente Luciano Devís	April
Jonatan Ottino González	Overweight, allostatic load and neuroimaging	Maria Àngels Jurado Luque and Maite Garolera Freixa	April
Didac Casas Alba	Infeccions per Enterovirus i Paraechovirus que produeixen patologies neurològiques i sistèmiques en població pediàtrica. Vigilància epidemiològica i estudi de biomarcadors de gravetat	Cristian Launes Montaña and Carmen Muñoz Almagro	April
C. Iglesias-Gomez	Implementación de un Modelo de evaluación de conocimiento en Cardiología Pediátrica	Georgia Sarquella Brugada	June
M. Castany	Use of molecular point of care (MPOC) systems for accurate and rapid diagnosis of gastrointestinal pathogens: impact of diagnosis yield, patient management and laboratory workflow	Carmen Muñoz Almagro	June
Toral M	Análisis de la influencia del consumo de tóxicos (alcohol, tabaco y drogas de abuso) durante el embarazo sobre la prematuridad	Maria Dolores Gómez-Roig	June
Antonio Martínez Monseny	Caracterización de pacientes pmm2-cdg: espectro fenotípico y correlación molecular	Mercedes Serrano Gimare and Alfredo García-Alix Pérez	June
Maria Iglesias González	Effectiveness and feasibility of watchful waiting for the management of major depression in primary care	Antoni Serrano and Maria Rubio	June
Susanna Gassiot	Mieloma Múltiple. Canvis en el maneig clínic associats a la incorporació de nous fàrmacs.	Albert Oriol	June
Laura Camperros Traver	GDF15, un nou factor secretable regulador del metabolisme	Francesc Villaroya Gombau and Joan Villaroya and Terrade	July
Francisco López-Caballero	Evoked and induced activity in the auditory nervous system: deviance detection and brainwave entrainment	Carles Escera	July
Cristina Duran Fernández-Feijóo	Neuroprotection with hypothermia and allopurinol in hypoxic-ischemic damage. Role of the antioxidant effect	Marta Camprubí	July
David Cornet Bartolomé	Molecular determinants of human oocyte quality in assisted reproduction.	Daniel Grinberg Vaisman and Rita Vassena	July

Thesis Author	Title	Thesis directors	Date
Pedro Brotóns de los Reyes	Infección respiratoria aguda en el paciente pediátrico: valor de la cuantificación de la carga bacteriana y de la detección viral en muestra nasofaríngea mediante pruebas rápidas moleculares.	Iolanda Jordán García and Carmen Muñoz Almagro	July
Albert Peiret Giménez	Modelling and simulation of multibody systems with unilateral contact	József Kóvacs and Josep M. Font Llagunes	August
Alejandro Bosch	Confort y desconfort en el paciente crítico pediátrico, adaptación transcultural y validación de la escala comfort behavior scale	Anna Falcó and Iolanda Jordán	September
Nagore Gene Olaciregui	New therapeutic approaches in diffuse intrinsic pontine glioma (DIPG)	Angel Montero Carcaboso	September
Mónica Sánchez Aulet	Biomarcadores y Trastorno Bipolar	Maria Paz García-Portilla and Belen Arranz	September
Aida Mata Ventosa	Implicacions fisiopatològiques de l'alteració del transportador concentratiu de nucleòsids hCNT1.	Sandra Pérez Torras and Marçal Pastor Anglada	November
Neus Roca Ayats	Identification and functional characterization of genetic loci involved in osteoporosis and atypical femoral fracture	Daniel Grinberg Vaisman and Susanna Balcells Comas	November
Alba Tristan Noguero	Deficiencia de la Tirosina Hidroxilasa: Estudios en pacientes y en un modelo celular	Antonella Consiglio and Mª Angels García Cazorla	November
Vittoria Spinosa	Motor-auditory interaction: a window towards associative and predictive processing	Iria SanMiguel and Carles Escera	December
Nuria Elvira Sanz Marcos	Estudio longitudinal de la composición corporal y del perfil endocrino-metabólico en niños sanos: influencia de la composición de ácidos grasos poliinsaturados maternos durante la gestación	Lourdes Ibáñez Toda	December
Maite Miranda-García	Efectividad de la acupuntura y moxibustión en la versión espontánea del feto en presentación de nalgas	Maria Dolores Gómez-Roig	December
Elisabeth Figuerola Bou	Polycomb and KDM6A Roles in the Epigenetic Dynamics of Ewing Sarcoma Tumorigenesis	Jaume Mora Graupera and Sara Sánchez Molina	December



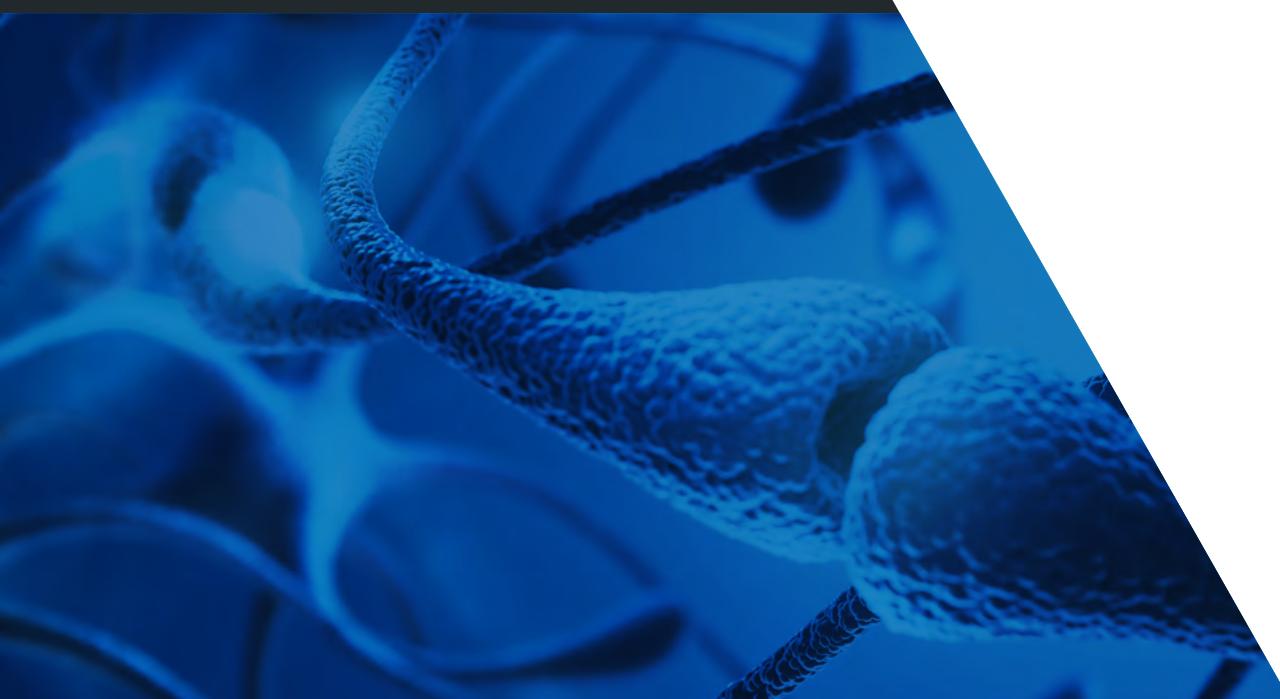
ANNUAL SCIENTIFIC
REPORT
2019

SJD

Sant Joan de Déu
Institut de Recerca

5

CORE FACILITIES



The Institut de Recerca Sant Joan de Déu makes available to its researchers a set of fundamental services and infrastructures for the performance of their projects. In order to facilitate high-level research, the IRJSD offers its professionals technical, scientific and support services as well as the most suitable infrastructures required to carry out their work:

Scientific core facilities

- Confocal Microscopy Unit
- Paediatric Biobank for research
- Neurological tissues Biobank for research
- Sequencing Unit
- Methodology and statistics
- Animal housing facility
- Neuroimaging
- Neuropsychological evaluations
- Library
- Clinical Trials Unit
- Biological Sample Processing and Molecular Analysis
- Unit of Design, Analysis and Interpretation of Omic data (DAI-Omics)

Management support services

- Administration and corporate finance
- Human Area
- Clinical Research Ethics Committee
- Research management and Promotion
- Management of knowledge and communication

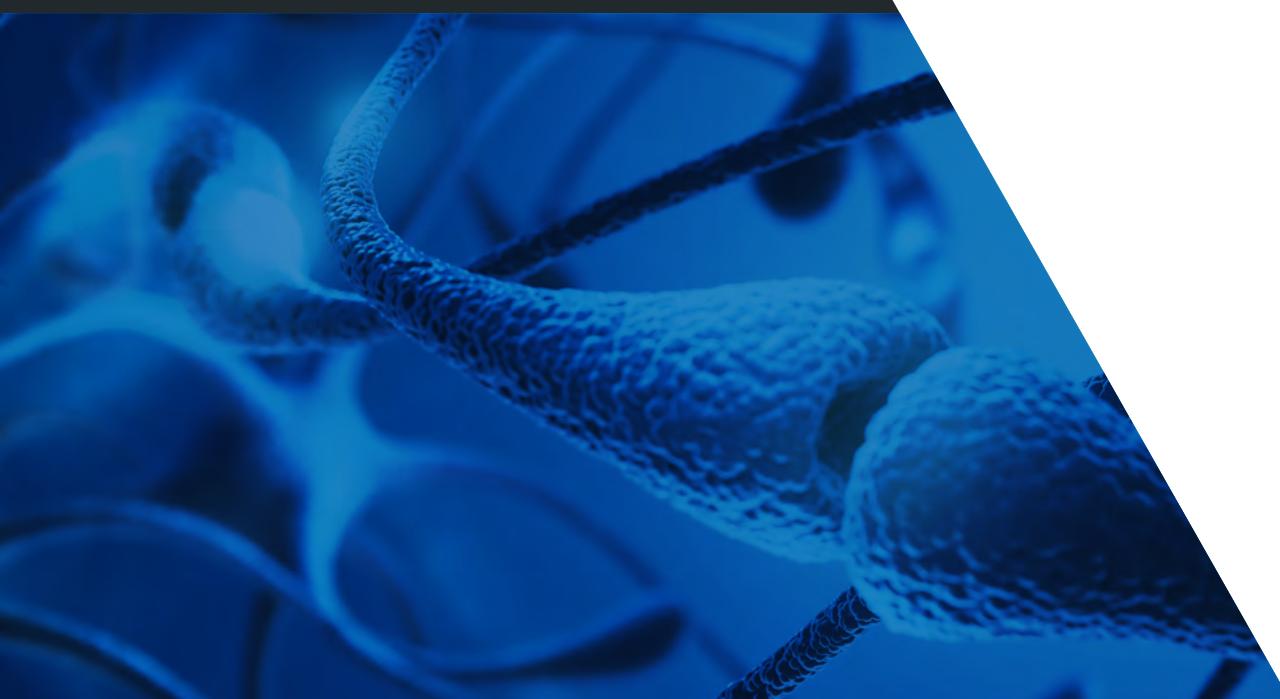
Other scientific and technical services

- UBNeuro Labs and facilities
- IBUB Labs and facilities
- CREB Labs and facilities



SJD

Sant Joan de Déu
Institut de Recerca



6

TRAINING, COMMUNICATION AND PARTICIPATION

Seminars
Training programme
Communication and public engagement

Seminars

20 SEMINARS IN 2019

467 ATTENDEES IN 2019

Relation of research seminars and IRSJD day of debates

15 JANUARY	5 APRIL	11 JUNE	17 SEPTEMBER
Omics: theory and practice of the various methods Raúl Cabrera Rubio, PhD	HORIZON EUROPE EU Research and Innovation Framework Programme for 2021-2027 Marina Martínez-García, PhD	Inhibition of phosphatidylinositol 3-kinase α (PI3Kα) prevents heterotopic ossification Francesc Ventura, PhD	New therapeutic alternatives for diffuse intrinsic pontine glioma (DIPG) Nagore Gené Olaciregui
29 JANUARY	30 APRIL	25 JUNE	6 NOVEMBER
Keys to the preparation of competitive research projects Rafa Artuch, PhD and Angel Montero, PhD	Cancer virotherapy: The paradigms they are a-changing Juan Fueyo-Margareto, PhD	Functional study of GDAP1 by computational analysis of confocal microscopy images Lara Cantarero Abad, PhD	III Day of Debate: IRSJD 2019. Neuroscience area - The multi OMICS day
12 FEBRUARY	13 MAY	2 JULY	12 NOVEMBER
Treatment of early intrauterine growth restriction with low-molecular-weight heparin Edurne Mazarico Gallego, PhD	New Infrastructures seminar Giuseppe Battaglia, PhD and Jaume Comas, PhD	Type 1 Diabetes and the Developing Brain Tandy Aye, PhD	Polycomb and KDM6A Roles in the Epigenetic Dynamics of Ewing Sarcoma Tumorigenesis Elisabeth Figuerola Bou
26 FEBRUARY	14 MAY	16 JULY	26 NOVEMBER
Role of transporters in disease Sandra Pérez Torra, PhD	The air we breathe. New looks at the unknown etiologies of paediatric disorders Xavier Rodó, PhD	CNS penetrating polymersomes for glioma targeting Giuseppe Battaglia PhD	Challenges in neuropsychological assessment and intervention in cerebral palsy Roser Pueyo, PhD, Montse Blasco and María García-Galant
13 MARCH	16 MAY	13 SEPTEMBER	10 DECEMBER
Collaborative intelligence and data model in the Share4Rare project Alexandre Perera i Lluna, PhD	II Day of Debate: IRSJD 2019 - Innovation Unconference	Generation of cellular and murine models of phenylketonuria and propionic acidemia by CRISPR/Cas9 Arístides López Márquez, PhD	Animal models for the study of psychiatric disturbances Noèlia Fernàndez-Castillo, PhD
26 MARCH	28 MAY		
Neuroimaging biomarkers in mental and neurological pathology Christian Stephan-Otto, PhD	Cellular models and therapeutic approaches for Sanfilippo syndrome type C Noelia Benetó Gandia		

Training programme

16 COURSES IN 2019

155 ATTENDEES IN 2019

To promote the development of the different competence dimensions, four types of training modalities are established:

- Knowledge and techniques
- Soft Skills
- Organization and Governance
- Institutional training (Values)

Courses

- Digital skills: Information search (online)
- Patients involvement: Introductory session
- Specialization session: Biobank
- Specialization session: Confocal Microscopy
- ICTs and health: Digital Health
- Patients involvement (online)
- Clinical research with Medical Devices
- Specialization session: Laboratory Services
- Sources of information, bibliographic research and scientific impact
- Introduction to the methodology
- Introduction to statistics
- Intellectual property: Patents and licenses
- Fundraising
- Systematic reviews and meta-analysis
- Introductory course to R-Software
- RGPD in Research

Communication and public engagement

Activities

13 Activities organized

1 Secondary school students

190 Participants

3 Researchers

12 General public

749 Assistants

Participation in

- La Marató de TV3
- Europeans Researcher's Night
- Barcelona "Festa de la Ciència"
- National Xeroderma Congress
- International Gliomatosis Congress
- RareHack

Internet and Social media

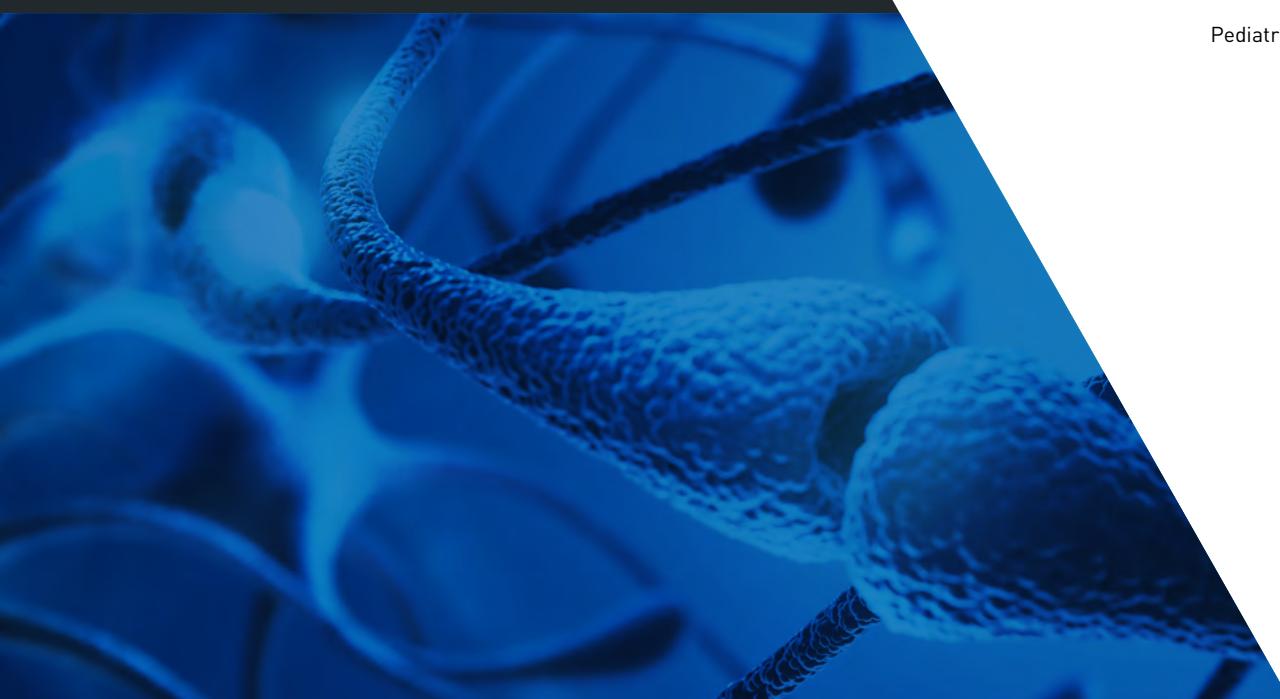
LINKEDIN

7.955 followers

WEBSITE

51.032 users

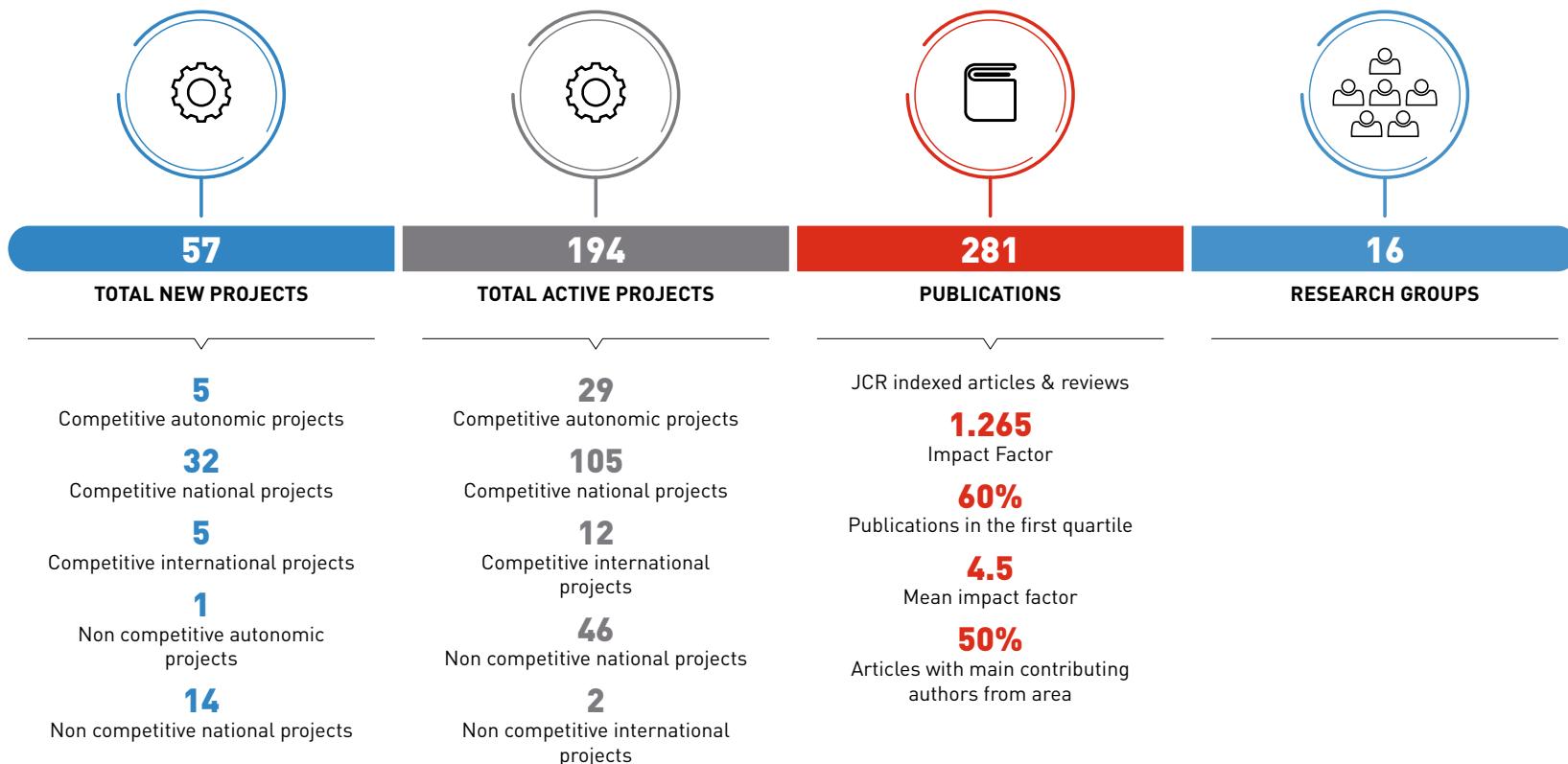
223.376 number of visits to pages



7

NEUROSCIENCE

Metabolic and mitochondrial medicine
Applied research in neuromuscular diseases
Pediatric neurometabolism: neural communication mechanisms and personalized therapies
Neurogenetics and Molecular Medicine
Neonatal brain
Neuropsychology
Cognitive neuroscience
Attention, Perception and Language Acquisition (APAL)
Human molecular genetics I
Human molecular genetics II
Etiopathogenesis and treatment of severe mental disorders (MERITT)
Research in child and adolescent mental health
Epidemiology of mental disorders and aging
Health technology assessment in primary care and mental health (PRISMA)
Psychological research group on fibromyalgia and chronic pain (AGORA GROUP)
Cerebral imprints of gender, development and pathology



METABOLIC AND MITOCHONDRIAL MEDICINE

Rafael Artuch Iribarri, MD, PhD

We have maintained a good level of scientific output, notably including the description of two new genes associated with human pathology for the first time (ADCK2 and collectrin), and the description of a new treatment option (AZATAX) for congenital disorders of glycosylation. We are in a process of technological renewal, which has led us for the first time to carry out a project on health technologies for the development of a biosensor to monitor the ammonium value in point-of-care and home formats. We have also developed new procedures for the metabolomic phenotyping of cellular and animal models.

Members

STAFF RESEARCHER

Jaume Campistol Plana, Didac Casas Alba, Rosa Gassió Subirachs, Laura Martí Sanchez, Silvia María Meavilla Olivas, Aida Ormazabal Herrero, Mercedes Serrano Gimaré, Cristina Sierra March, Roser Urreizti Frexedas, Délia Yubero Siles

POSTDOC - ASSOCIATE RESEARCHER

Mercedes Casado Rio, Juan Darío Ortigoza Escobar, Raquel Montero Sánchez

PHD STUDENT

Abraham José Paredes Fuentes

TECHNICIAN

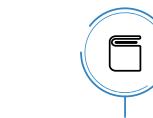
Yahel Calzadilla Borras, Judit Diaz Blanco, Aroa Fernández de Miguel, Juan Moreno García, Tania Pardal Chofle

Selected projects

- FIS 2017_Atrofia cerebelosa en la infancia: desarrollo de herramientas clínico-radiológicas para un fenotipado de precisión, algoritmo diagnóstico integral e identificación de nuevos genes. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación. PI17/00101. PI: Mercedes Serrabo Gimaré. 2018 - 2020.
- Biosensores para la monitorización de Enfermedades Metabólicas Hereditarias. Desarrollo y evaluación de prototipos funcionales para validación conceptual. Instituto de Salud Carlos III (ISCIII). DTS. DTS18/00075. PI: Rafael Artuch Iribarri. 2019-2020.
- Diagnóstico molecular de los defectos de la fosforización oxidativa mitocondrial: patogénesis de las deficiencias de CoQ10. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación. PI17/00109. PI: Rafael Artuch Iribarri. 2018-2020.

Selected publications

- Jou-Munoz C, Ortigoza-Escobar JD, O'Callaghan-Gordo M, Nascimento-Osorio A, Darling A, Pias-Peleteiro L, et al. Muscle Involvement in a Large Cohort of Pediatric Patients with Genetic Diagnosis of Mitochondrial Disease. *J Clin Med.* 2019; 8(1). FI: 5,688(Q1)
- Martinez-Monseny T, Cuadras-Palleja D, Bolasell-Girgas M, Muchart-Lopez J, Arjona-Fernandez C, Borregan M, et al. From gestalt to gene: early predictive dysmorphic features of PMM2-CDG. *J Med Genet.* 2019; 56(4): 236 - 245. FI: 5,899(Q1)
- Martinez-Monseny T, Bolasell-Girgas M, Callejón L, Cuadras-Palleja D, Freniche V, Itzep DC, et al. AZATAX: Acetazolamide safety and efficacy in cerebellar syndrome in PMM2 congenital disorder of glycosylation (PMM2-CDG). *Ann Neurol.* 2019; 85(5): 740 - 751. FI: 9,496(Q1)
- Montero-Sánchez R, Yubero-Siles D, Salgado MC, González MJ, Campistol-Plana J, O'Callaghan-Gordo M, et al. Plasma coenzyme Q 10 status is impaired in selected genetic conditions. *Sci Rep.* 2019; 9(1): 793 - 793. FI: 4,011(Q1)



27

PUBLICATIONS
WITH IF



66%

FIRST QUARTILE
PUBLICATIONS



11%

FIRST DECILE
PUBLICATIONS

APPLIED RESEARCH IN NEUROMUSCULAR DISEASES

Cecilia Jiménez Mallebrera, PhD

2019 was a turning point for our group since we have consolidated a Gene Therapy program which started with a project to correct mutations in collagen VI employing CRISPR/Cas9 technology with the support of public (CIBERER) and private funds (F. Noelia). To foster gene therapies we actively participate in an EU COST Action together with groups from over 27 countries. Clinical trials and new treatments for neuromuscular diseases are exploding and our group is part of this effort, participating in 15 clinical trials and delivering groundbreaking treatments such as Spinraza® for Spinal Muscular Atrophy (SMA). To optimize this therapy and based on our expertise in biomarker discovery we are investigating extracellular vesicles and long non-coding RNAs in SMA. We aim to provide 360-degrees answers to neuromuscular diseases, an example of this is our psychological support program in schools for children with muscular dystrophies and the investigation of innovative motor function monitoring devices using artificial intelligence. We celebrated the 5th open day for patients and families with hundreds of attendants where the Share4Rare platform was presented. The 7th edition of the Neuromuscular Diseases course that we offer every two-years focused on the latest therapeutic and scientific advancements.

Members

STAFF RESEARCHER

Julita Medina, Andrés Nascimento, Carlos Ignacio Ortez Gonzalez, Irene Beatriz Zschaeck Luzardo

POSTDOC - ASSOCIATE RESEARCHER

Daniel Natera de Benito, Selena Trifunov, Arístides López Márquez

PHD STUDENT

Cristina Jou Muñoz

ASSISTANT RESEARCHER

Maria del Carmen Badosa Gallego, Laura Carrera García, Anna Codina, Jessica Exposito Escudero, Raquel Gutiérrez, Sonia Segovia Simón

TECHNICIAN

Arístides López Márquez

Selected projects

- Biomarcadores precoces pronósticos y de respuesta a tratamiento en la Atrofia Muscular Espinal. Asociacion galiciAME. PRIMERA CONVOCATORIA PARA FOMENTAR LA INVESTIGACIÓN DE LA AME. V. PI: Cecilia Jiménez Mallebrera. 2019 - 2020.
- 6MWT+: The Six Minutes Walking Test PLUS System. EIT Health e.V. EIT- Innovations by Ideas (BP 2019). PI: Julita Medina. 2019 - 2020.
- Nueva aproximación terapéutica para las miopatías de Ullrich y Bethlem basada en la edición de mutaciones dominantes del colágeno VI en fibroblastos de pacientes. OSSJD - Obra Social Sant Joan de Déu. Somos Uno 2018. PI: Cecilia Jiménez Mallebrera. 2018 - 2021.
- Aplicación de la proteómica y biología de sistemas al estudio del matrísoma y miRNAs en las Distrofias Musculares Congénitas. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación en salud. PI16/00579. PI: Cecilia Jiménez Mallebrera. 2017 - 2020.

Selected publications

- Berciano J, Natera-de Benito D. Description of Restrictively Defined Acute Flaccid Myelitis. *JAMA Pediatr*; 2019;173(7): 701 - 702. FI: 12,004(Q1)
- Carrera-García L, Natera-de Benito D, Lleixà C, Ortez-Gonzalez CI, Colomer J, Nascimento-Osorio A, et al. Chronic inflammatory demyelinating polyneuropathy associated with contactin-1 antibodies in a child. *Neurol Neuroimmunol Neuroinflamm*. 2019; 6(5). FI: 7,353(Q1)
- Domínguez-González C, Madruga-Garrido M, Mavillard F, Garone C, Aguirre-Rodríguez FJ, Donati MA, et al. Deoxyribonucleoside Therapy for Thymidine Kinase 2-Deficient Myopathy. *Ann Neurol*. 2019; 86(2): 293 - 303. FI: 9,496(Q1)
- Gorozky HD, Naumenko S, Ramani AK, Nelakuditi V, Mashouri P, Wang P, et al. Expanding the Boundaries of RNA Sequencing as a Diagnostic Tool for Rare Mendelian Disease. *Am J Hum Genet*. 2019; 104(3): 466 - 483. FI: 9,924(Q1)
- Bazaga A, Roldan M, Badosa-Gallego MC, Jimenez-Mallebrera C, Porta JM. A Convolutional Neural Network for the Automatic Diagnosis of Collagen VI-related Muscular Dystrophies. *Appl Soft Comput*. 2019; 85: 150772. FI: 5,472(Q1)
- Milev MP, Stanga D, Schänzer A, Nascimento-Osorio A, Saint-Dic D, Ortez-Gonzalez CI, et al. Characterization of three TRAPPC11 variants suggests a critical role for the extreme carboxy terminus of the protein. *Sci Rep*. 2019; 9(1): 14036 - 14036. FI: 3,998(Q1)

Networks

- Neuromuscular European Reference Network (EURO-ERN): miembros del Management Committee and Education Board
- Treat-NMD
- CSUR
- CIBERER (U703)
- RETICS: Plataforma Nacional de Biobancos
- SGR-AGAUR Generalitat de Catalunya



PEDIATRIC NEUROMETABOLISM: NEURAL COMMUNICATION MECHANISMS AND PERSONALIZED THERAPIES

M^a Angels García Cazorla, MD, PhD

In 2019, our team began to develop a platform of individualised therapies for disorders altering neuronal communication, mainly including synaptopathies, by using such tools as metabolic and neuronal plasticity modulation. Likewise, in collaboration with international networks, we are defining new neurometabolic disorders, new pathophysiological classifications, and patient registers.

Members

STAFF RESEARCHER

Javier Aparicio, Jordi Muchart López
POSTDOC - ASSOCIATE RESEARCHER
Judit Armstrong, Roser Colomé,
Alejandra Darling, Alfonso Luis
de Oryarzabal Sanz, Carme Fons
Estupiña, Mar O'Callaghan

PHD STUDENT

Ines Fernanda Medina Rivera,
Natalia Alexandra Julia Palacios,
Alba Tristan Noguero

ASSISTANT RESEARCHER

Uliana Musokhranova

TECHNICIAN

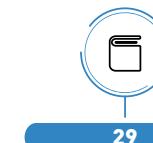
Cristina Grau

Selected projects

- Caracterización clínica y molecular del síndrome de Rett: elucidar los casos no resueltos. Instituto de Salud Carlos III [ISCIII]. FIS. PI15/01159. PI: Judith Silvia Armstrong Morón. 2016 - 2019;
- Aproximaciones terapéuticas en un modelo celular de síndrome de Rett. OSSJD - Obra Social Sant Joan de Déu. Mi Princesa Rett. PI: M^a Angels García Cazorla. 2014 - 2020.
- Medicina personalizada en los defectos genéticos de la neurotransmisión en pediatría. Nuevo enfoque basado en el metabolismo de la sinapsis neuronal. Instituto de Salud Carlos III [ISCIII]. PI. PI18/00111. PI: M^a Angels García Cazorla. 2019 - 2021.
- Therapeutic correction of tyrosine hydroxylase deficiency (THD): a neuropediatric disorder of dopamine synthesis and a model of parkinsonism". Hospital Sant Joan de Déu - Esplugues HSJD. Convocatòria de Beques de Recerca IRSJD - Carmen de Torres 2018. BR201802. PI: M^a Angels García Cazorla. 2019 - 2022.

Selected publications

- Castells AA, Gueraldi D, Balada R, Tristan-Noguero A, Cortés-Saladelafont E, Ramos F, et al. Discovery of Biomarker Panels for Neural Dysfunction in Inborn Errors of Amino Acid Metabolism. *Sci Rep.* 2019; 9(1): 9128 - 9128. FI: 4,011(Q1)
- Pillai NR, Yubero-Siles D, Shayota BJ, De Oyarzabal-Sanz AL, Ghosh R, Sun Q, et al. Loss of CLTRN function produces a neuropsychiatric disorder and a biochemical phenotype that mimics Hartnup disease. *Am J Med Genet A.* 2019; 179(12): 2459 - 2468. FI: 2,197(Q3)
- Saudubray JM, Mochel F, Lamari F and Garcia-Cazorla A. Proposal for a simplified classification of IMD based on a pathophysiological approach: A practical guide for clinicians. *J Inher Metab Dis.* 2019; 42(4): 706 - 727. FI: 4,287(Q1)
- Soto D, Olivella M, Grau C, Armstrong-Moron J, Alcon C, Gasull X, et al. L-Serine dietary supplementation is associated with clinical improvement of loss-of-function GRIN2B -related pediatric encephalopathy. *Sci Signal.* 2019; 12(586). FI: 6,565(Q1)



PUBLICATIONS
WITH IF



FIRST QUARTILE
PUBLICATIONS



FIRST DECILE
PUBLICATIONS

Networks

- 2007 - CIBERER
- 2017 - European Reference Network for Hereditary Metabolic Diseases (METABERN)
- 2014 - Connecting the growing brain
- 2015 - INTD - International Working Group on Neurotransmitter Related Disorders

NEUROGENETICS AND MOLECULAR MEDICINE

Janet Hoenicka, MD, PhD
Francesc Palau Martínez, MD, PhD

The NeuroGene research group studies neurological and psychiatric disorders of genetic origin with the aim to improve their etiologic diagnosis and to increase our knowledge of their pathophysiology and pharmacological screening. NeuroGene carries out its scientific and translational work in the field of experimental biomedicine, within the framework of the Paediatric Institute for Rare Diseases (IPER). The scientific milestones which we achieved and the activities which we carried out in 2019 included: (1) the demonstration of neuroinflammation in axonal forms of Charcot-Marie-Tooth disease caused by the GDAP1 gene (Fernandez-Lizarbe S et al, Exp Neurol 2019); (2) the study of the genetic architecture of Parkinson's disease in Spain (Bandrés-Ciga S et al, Mov Disord 2019); (3) the implementation of the "Translational Diagnosis" programme (Pijuan J et al., 2020 under revision) and the "Precision Medicine in Rare Diseases" programme (Palau F, SEBBM Revista 2020). Our training and dissemination activities included the coordination of the "Advances in Genetic Medicine, Genomic Medicine and Rare Diseases" course, and F. Palau's responsibility as editor-in-chief of Orphanet Journal of Rare Diseases.

Members

STAFF RESEARCHER

Guerau Fernandez Isern,
Joan Maynou Fernández,
Mónica Roldan Molina

POSTDOC - ASSOCIATE RESEARCHER

Lara Cantarero Abad, Esther
Cuatrecasas Capdevila, Laura
Dominguez Berzosa, Cristina
Hernando Davalillo, Antonio F
Martinez Monseny, Loreto Martorell
Sampol, Jordi Pijuan Marquilles,
Maria Rodriguez Sanz

PHD STUDENT

Elena Juárez Escoto

ASSISTANT RESEARCHER

Adrian Alcalá Sanmartín,
Arola Altimir Esquís,
Alba Pascual Rodríguez

TECHNICIAN

Daniel Castillo Mestres, Patricia
Fernández Pareja, Jordi Genovès
Escarré, Sara Manresa, Paola
Pacheco Fernández, Patricia Peral
García, Lluïsa Ramírez, Carlota
Ros Bonaventura, Johanna Troya
Balseca, Teresa Zabala Vidal

Selected projects

- El Paisaje de la Biología Axonal y las Membranas Asociadas a Mitochondrias en las Enfermedades Neurogenéticas. Ministerio de Economía Y Competitividad (MINECO). Retos colaboración 2015. SAF2015-66625-R. PI: Francesc Palau Martínez. 2016-2019.
- El paisaje entre el fenotipo y el genotipo de enfermedades neurológicas del desarrollo: Validación de un modelo de biología funcional clínica. Fundación Isabel Gemio Inv. De Distrofias Musculares y Enfermedades Raras. Fundación Isabel Gemio. PI: Francesc Palau Martínez. 2017 - 2020.
- El modelo de genómica clínica - genómica funcional en la innovación diagnóstica de las enfermedades neurogenéticas. Hospital Sant Joan de Déu - Esplugues HSJD. Beques de Recerca. BR201701. PI: Janet Hoenicka. 2018 - 2021

Selected publications

- Bandrés-Ciga S, Ahmed S, Sabir MS, Blauwendraat C, Adarnes-Gómez AD, Bernal-Bernal I, et al. The Genetic Architecture of Parkinson Disease in Spain: Characterizing Population-Specific Risk, Differential Haplotype Structures, and Providing Etiologic Insight. *Mov Disord.* 2019; 34(12): 1851 - 1863. FI: 8,222(Q1)
- Fernandez-Lizarbe S, Civera-Tregon A, Cantarero-Abad L, Herrer I, Juarez P, Hoenicka J and Palau-Martínez F. Neuroinflammation in the pathogenesis of axonal Charcot-Marie-Tooth disease caused by lack of GDAP1. *Exp Neurol.* 2019; 320: 113004 - 113004. FI: 4,562(Q1)
- Martinez-Monseny T, Cuadras-Palleja D, Bolasell-Girgas M, Muchart-Lopez J, Arjona-Fernandez C, Borregan M, et al. From gestalt to gene: early predictive dysmorphic features of PMM2-CDG. *J Med Genet.* 2019; 56(4): 236 - 245. FI: 5,899(Q1)
- Mollá B, Muñoz-Lasso DC, Calap P, Fernández-Vilata A, de la Iglesia-Vaya M, Pallardó FV, et al. Phosphodiesterase Inhibitors Revert Axonal Dystrophy in Friedreich's Ataxia Mouse Model. *Neurotherapeutics.* 2019; 16(2): 432 - 449. FI: 5,552(Q1)



24

PUBLICATIONS
WITH IF



66%

FIRST QUARTILE
PUBLICATIONS



29%

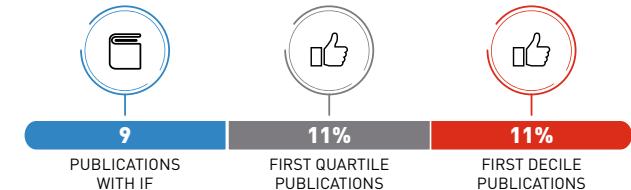
FIRST DECILE
PUBLICATIONS

Networks

- Centro de Investigación Biomédica en Red de Enfermedades Raras (CIBERER), desde 2006
- Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), desde 2007
- Orphanet, desde 2010. Coordinador de Orphanet-España, CIBERER
- ERN on Intellectual Disability and Congenital Anomalies – ITHACA (Unidad Afiliada)

NEONATAL BRAIN

Alfredo Garcia-Alix Pérez, MD, PhD



Members

STAFF RESEARCHER

Thais Agut Quijano, Ana Alarcón Allen, Nuria Carreras Blesa, Jonathan Francisco Olival Tremaria, Carla Skilham, Nuria Herranz Rubia

Selected projects

- Elaboración de un atlas morfométrico normalizado de la maduración cerebral del recién nacido prematuro y valoración del impacto de la patología cerebral en el proceso madurativo. Instituto de Salud Carlos III (ISCIII). PI: Thais Agut Quijano. 2019 - 2021.
- Contratos Rio Hortega. Instituto de Salud Carlos III (ISCIII). Rio Hortega. CM18/00258. PI: Alfredo García-Alix. 2019 - 2020.
- Rare Coding Genetic Variants Associated with neonatal arterial ischemic stroke. Fundació La Marató de TV3. Ictus i lesions medul·lars/cerebrals traumàtiques. 201714.10. PI: Alfredo García-Alix. 2018 - 2021.

Selected publications

- Batista Muñoz A, Hadley S, Iriondo-Sanz M, Agut-Quijano T and Camprubí-Camprubí M. Role of beta-2-microglobulin as a biomarker in very preterm and extremely preterm infants with CNS inflammation. *PLoS One*. 2019; 14(5): e0216498. FI: 2,776(Q2)
- Echeverría-Palacio CM, Agut-Quijano T, Arnaez-Solis J, Valls-Lafon A, Reyne M and García-Alix A. Neuron-Specific Enolase in Cerebrospinal Fluid Predicts Brain Injury After Sudden Unexpected Postnatal Collapse. *Pediatr Neurol*. 2019; 101: 71 - 77. FI: 2,326(Q2)
- Olivé G, Agut-Quijano T, Echeverría-Palacio CM, Arca-Díaz G and García-Alix A. Usefulness of Cranial Ultrasound for Detecting Neonatal Middle Cerebral Artery Stroke. *ULTRASOUND MED BIOL*. 2019; 45(3): 885 - 890. FI: 2,205(Q2)
- Núñez C, Arca G, Agut T, Stephan-Otto C, García-Alix A, Precise neonatal arterial ischemic stroke classification with a threedimensional map of the arterial territories of the neonatal brain. *Pediatric Research*. 2019;1-6.
- Arnaez-Solis J, Herranz Rubia N, García-Alix A, ESP-EHI Group. Perinatal hypoxic-ischaemic encephalopathy: a national survey of end-of-life decisions and palliative care. *BMJ Support Palliat Care*. 2019. FI: (Q)

NEUROPSYCHOLOGY

Roser Pueyo Benito, PhD

In 2019, the Neuropsychology group published 6 papers in international journals, four of which were 1st quartile journals and one was a 2nd quartile journal. Six research projects obtained in competitive calls are being directed. Our group also participated in a European project on transference and one of our members defended an international doctoral thesis. Likewise, our group contributed to the development of the European Dyskinetic Cerebral Palsy Network (EDCPN), and another of our members obtained the ICREA-Acadèmia Award.

Members**STAFF RESEARCHER**

Júlia Ballester Plané, Xavier Caldú Ferrús, María Ángeles Jurado, Olga Laporta Hoyos, Maria Mataró Serrat, Júlia Miralbell Blanch

POSTDOC - ASSOCIATE RESEARCHER

Mar Ariza Gonzalez, Cristina Sánchez Castañeda

PHD STUDENT

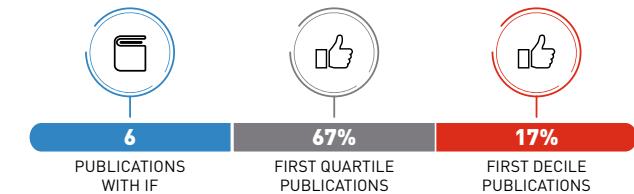
Montse Blasco Sierra, Adria Bermudo Ballaquet, Alba Castells Sánchez, María García Galant, Nomeí Lamonja Vicente, Sandra Luis Ruiz, Jonatan Ottino González, Xavier Prats Soteras, Francesca Roig Coll

Selected projects

- Executive function training in childhood obesity: food choice, quality of life and brain connectivity (TOUCH). Fundació La Marató de TV3. Ajuts econòmics a projectes de recerca de la Fundació Marató de TV3. 201616-10. PI: María Ángeles Jurado Luque. 2017-2020.
- Entrenamiento ejecutivo en parálisis cerebral: participación, calidad de vida y conectividad cerebral. Ministerio de Economía y Competitividad. Convocatòria d'ajuts del Programa Estatal d'Investigació, Desenvolupament i Innovació Orientada als reptes de la Societat. Modalitat Projectes I+D+I. PSI2016-75979-R. PI: Roser Pueyo Benito. 2016-2020.
- Ajut per incentivar i consolidar la recerca d'excel·lència ja existent a les universitats públiques de Catalunya. Programa ICREA Acadèmia 2018. Fundació Institució Catalana de Recerca i Estudis Avançats (ICREA). Convocatòria del Programa Icrea Acadèmia. PI: Maria Mataró Serrat. 2019-2023.

Selected publications

- de Lange SC, Scholtens LH, Alzheimers Disease Neuroimaging Initiative, van den Berg LH, Boks MP, Bozzali M, et al. Shared vulnerability for connectome alterations across psychiatric and neurological brain disorders. *Nat Hum Behav.* 2019; 3(9): 988 - 998. FI: 10,575(Q1)
- Laporta O, Ballester J, Leiva D, Ribas T, Miralbell J, Torroja-Nualart C, et al. Executive function and general intellectual functioning in dyskinetic cerebral palsy: Comparison with spastic cerebral palsy and typically developing controls. *Eur J Paediatr Neurol.* 2019; 23(4): 546 - 559. FI: 2,496(Q1)
- Caldú X, Ottino-González J, Sánchez-Garre C, Hernan I, Tor E, Sender-Palacios MJ, et al. Effect of the catechol-O-methyltransferase Val 158 Met polymorphism on theory of mind in obesity. *Eur Eat Disord Rev.* 2019; 27(4): 401 - 409. FI: 3,154(Q1)
- Ottino-González, J, Jurado MA, García-García I, Caldú X, Prats-Soteras X, Tor E, et al. Allostatic load and executive functions in overweight adults. *Psychoneuroendocrinology.* 2019; 106:165-170. FI: 4,013(Q1)

**Networks**

- European dyskinetic cerebral palsy network (EDCPN) des del. 2019; Roser Pueyo

COGNITIVE NEUROSCIENCE

Carles Escera Micó, PhD

2019 has been quite active and successful for the Cognitive Neuroscience Research Group. We published the first paper (Ribas-Prats et al., 2019, *Hear. Res.*) in collaboration with the Foetal Environment and Obstetrical Complication Research Group, establishing normative values for the use of the frequency-following response (FFR) as a biomarker for neurocognitive development. Likewise, we secured competitive funding from the Knowledge Generation Programme of the Spanish Ministry of Science for this project. Using the FFR, we described subcortical deficits in the suppression of repeating auditory information in autism as a potential mechanism for hypersensitivities in this disorder (Font-Alamillos et al., 2019, *Biol. Psychol.*). Furthermore, we continued our research on the neural mechanism of auditory cognition, highlighting the role of regularity encoding in human neuroimaging experiments (Cacciaglia et al., 2019, *Neuroimage*) and animal models (Malmierca et al., 2019, *Neuroimage*). Three PhD theses (International Diploma) have been defended, two of them dealing with the mechanisms generating the FFR. Lastly, we started our ERC-Advanced Grant

research, investigating the role of the soundscape (the acoustic signature of a particular location, with a focus on rock art sites) in driving auditory-induced emotions and mental states.

Members

STAFF RESEARCHER

Imma Clemente Lapena, María José Corral López, Jordi Costa Faidella, Maribel Nuñez Peña, Iria San Miguel Insúa, Hans Supèr, Marc Via García

POSTDOC - ASSOCIATE RESEARCHER

Natàlia Gorina

PHD STUDENT

Sonia Arenillas Alcón, Alejandro Lerer, Marta Puertollano Rodríguez, Teresa Ribas Prats

Selected projects

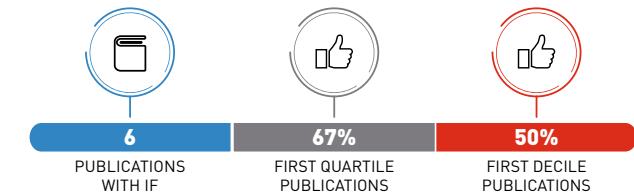
- The sound of special places: exploring rock art soundscapes and the sacred (role: Principal Investigator of Psychophysics [RL2] and Cognitive Neuroscience [RL3] work packages), 2018–2023. Budget: 316,000 €). European Research Council. ERC Advanced Grants. 787842. PI: Carles Escera Micó. 2018 – 2023
- Papel de los genes y de factores epigenéticos en la modulación de potenciales cerebrales asociados al procesamiento del lenguaje y de la música. Ministerio de Ciencia, Innovación y Universidades. Convocatoria d'ajuts del Programa Estatal de Foment de la Investigació Científica i Tècnica d'Excel·lència. Subprograma Estatal de generació del coneixement. Modalitat Projectes d'R+D de Generació del Coneixement. PGC2018-094765-B-I00. PI: Carles Escera Micó. 2019 – 2021.
- Ajut per incentivar i consolidar la recerca d'excel·lència ja existent a les universitats públiques de Catalunya. Programa ICREA Academia 2015. Fundació Institut Catalana de Recerca i Estudis Avançats (ICREA). Convocatoria del Programa Icrea Acadèmia. PI: Carles Escera Micó. 2016 – 2020.

of complex auditory regularities in the rat inferior colliculus. *Neuroimage* 2019; 184: 889 – 900. FI: 5,812(Q1)

- Ribas-Prats T, Almeida-Toledano L, Costa-Faidella J, Plana M, Corral MJ, Gómez-Roig MD and Escera C. The frequency-following response (FFR) to speech stimuli: A normative dataset in healthy newborns. *Hear Res.* 2019; 371: 28 – 39. FI: 2,952(Q1)

Selected publications

- Cacciaglia R, Costa-Faidella J, Zarnowiec K, Grimm S, Escera C. Auditory predictions shape the neural responses to stimulus repetition and sensory change. *Neuroimage*. 2019; 186: 200 – 210. FI: 5,812(Q1)
- Font-Alamillos M, Ribas-Prats T, Gorina N, Escera C. Emergence of prediction error along the human auditory hierarchy. *Hear Res.* 107954 – 107954. FI: (Q2)
- Malmierca MS, Niño-Aguillón BE, Nieto-Diego J, Porteros Á, Pérez-González D, Escera C. Pattern-sensitive neurons reveal encoding



ATTENTION, PERCEPTION AND LANGUAGE ACQUISITION (APAL)

Laura Bosch Galceran, PhD

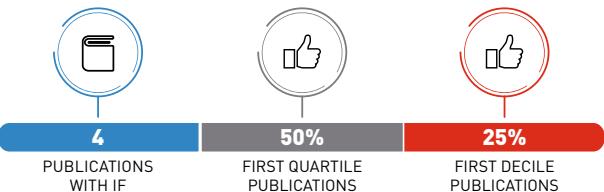
Our main research focus was on the assessment of different factors (linguistic environment, prematurity, and sensory and auditory integration) in the audiovisual processing of speech in the prelexical stage. Through the use of eye-tracking technology, we observed how the infant's attention is modulated by maturational and experiential factors in various tasks (speech perception and tracking of the adult's gaze), which are significant for learning in interactive contexts. We collaborated with Neonatology (N. Carreras, preterm infant population), and with ORL (M.A. Claveria) and Neuroradiology (M. Rebollo) on the project on biomarkers that impact the language learning process in pre-implantation deaf patients. Likewise, we completed a follow-up study of children born small for gestational age who were assessed at age 7 years in order to identify markers of school-age learning difficulties risk (Dr L. Ibáñez's team, Endocrinology).

Members

- STAFF RESEARCHER Ferran Pons Gimeno, Marta Ramon Casas
- POSTDOC - ASSOCIATE RESEARCHER Clément François
- PHD STUDENT Joan Birulés Muntané
- ASSISTANT RESEARCHER Jessica Sánchez-Galán Frauca

Selected projects

- Pròrroga del conveni de col·laboració per una recerca sobre cognició i percepció de llengües en nens. Fundació Privada Betània-Patmos. PI: Ferran Pons Gimeno. 2019-2023.
- Variabilidad en el procesamiento audiovisual del habla en la infancia: rol de la experiencia lingüística, maduración neurológica y capacidad sensorial. Ministerio de Ciencia, Innovación y Universidades. Convocatòria d'ajuts del Programa Estatal de Foment de la Investigació Científica i Tècnica d'Excel·lència. Subprograma Estatal de generació del coneixement. Modalitat Projectes d'R+D de Generació del Coneixement. PGC2018-097487-B-I00. PI: Ferran Pons Gimeno and Laura Bosch Galceran. 2019-2021.



Selected publications

- Pons F, Bosch L, Lewkowicz DJ. Twelve-month-old infants' attention to the eyes of a talking face is associated with communication and social skills. *Infant Behav Dev.* 2019; 54: 80 - 84. FI: 1,353(Q4)
- Birules J, Bosch L, Brieke R, Pons F and Lewkowicz DJ. Inside bilingualism: Language background modulates selective attention to a talker's mouth. *Dev Sci.* 2019; 22(3): e12755. FI: 4,096(Q1)

HUMAN MOLECULAR GENETICS I

Daniel Raúl Grinberg Vaismann, PhD

In 2019 we described new genes and mutations responsible for intellectual disability in patients originally diagnosed as C syndrome or Bohring-Opitz [PIGT, DPH1, ASXL1, TRAF7], and in other patients with rare diseases such as familial juvenile idiopathic arthritis (LACC1), intellectual disability (SETD1B) or microcephaly (TUBB5). We analysed the C7orf76 locus in relation to osteoporosis. We also took part in multi-centre studies on mutations in RASopathies, stroke and its recovery, and psychiatric disturbances, identifying for the first time genes causing predisposition to ADHD. We also conducted studies at genomic level on the genetics of autism, of cocaine dependence, and of aggressiveness, and on the epigenetics of ADHD. In the field of lysosomal disorders, we generated iPS cells for Sanfilippo syndrome type C by the CRISPR/Cas9 technique and we differentiated them into neurons. Likewise, we participated in the development of IT tools for exome analysis. Lastly, we launched a project aimed to generate and to study neuronal models based on iPS cells derived from patients with Williams-Beuren syndrome or 7q11.23 microduplication syndrome.

Members

STAFF RESEARCHER

Susana Balcells Comas, Bru Cormand Rifà, Roser Corominas Castiñeira, Raquel Rabionet Janssen

POSTDOC - ASSOCIATE RESEARCHER

Judit Cabana Domínguez, Noelia Fernández Castillo, Bárbara Torrico Avilés, Roser Urreizti Frexedas

PHD STUDENT

Ester Antón Galindo, Noelia Benetó Gandia, Laura Castilla Vallmanya, Nuria Martínez Gil, Laura Pineda Cirera, Neus Roca Ayats, Anu Shivalikanjli

TECHNICIAN

Mónica Cozar Morillo

Selected projects

- Sinergias en el estudio genético y la búsqueda de terapias para el síndrome de Opitz C, la fractura femoral atípica, la osteoporosis y enfermedades lisosomales. Ministerio de Economía y Competitividad. Convocatòria d'ajuts del Programa Estatal d'Investigació, Desenvolupament i Innovació Orientada als reptes de la Societat. Modalitat Projectes I+D+I. SAF2016-75948-R. PI: Susana Balcells Comas. 2016 - 2019.
- Effects of Nutrition and Lifestyle on Impulsive, Compulsive, and Externalizing behaviors (Eat2beNICE). Unió Europea. HORIZON 2020 (2014-2020). P2. SC2: SUSTAINABLE FOOD SECURITY - RESILIENT AND RESOURCE-EFFICIENT VALUE CHAINS (H2020-SFS-2016-2017). 728018. PI: Bru Cormand Rifà. 2017 - 2022.
- GENIUS: GENetic Influences on functional outcome after Stroke. Fundació La Marató de TV3. Ictus i lesions medul-lars/cerebrals traumàtiques. Reg. 70/307 Proj. 201726. PI: Raquel Rabionet Janssen. 2017 - 2019.

Selected publications

- Mason S, Castilla-Vallmanya L, James C, Andrews PI, Balcells S, Grinberg-Vaismann DR, et al. Case report of a child bearing a novel deleterious splicing variant in PIGT. Medicine (Baltimore). 2019; 98(8): e14524. FI: 1,870 (Q2)
- Roca N, Martínez N, Cozar M, Gerousi M, García-Giralt N, Ovejero D, et al. Functional characterization of the C7ORF76 genomic region, a prominent GWAS signal for osteoporosis in 7q21.3. Bone. 2019; 123: 39 - 47. FI: 4,360 (Q1)
- Pineda L, Shivalikanjli A, Cabana J, Demontis D, Rajagopal VM, Børglum AD, et al. Exploring genetic variation that influences brain methylation in attention-deficit/hyperactivity disorder. Transl Psychiatry. 2019; 9(1): 242 - 242. FI: 5,182 (Q1)
- Benito N, Cozar M, García-Morant M, Creus-Bachiller E, Vilageliu L, Grinberg-Vaismann DR and Canals I. Generation of two compound heterozygous HGSNAT-mutated lines from healthy induced pluripotent stem cells using CRISPR/Cas9 to model Sanfilippo C syndrome. Stem Cell Res. 2019; 41: 101616 - 101616. FI: 3,929 (Q1)



18

PUBLICATIONS WITH IF



89%

FIRST QUARTILE PUBLICATIONS



22%

FIRST DECILE PUBLICATIONS

Networks

- CIBERER, 2007
- GEFOS-GENOMOS, 2002
- GEMSTONE (COST ACTION), 2019
- DARTER (COST ACTION), 2018
- IMpACT, 2007
- PGC, 2009
- IHGC, 2007

HUMAN MOLECULAR GENETICS II

Gemma Marfany Nadal, PhD

This year our group consolidated its activity in rare disease research, ranging from genetic diagnosis to the creation of models, the analysis of gene networks and a possible therapy. We bolstered our line of genetic diagnosis of hereditary eye disorders by founding and strengthening a spin-off, DBGen Ocular Genomics. Likewise, we established collaborations addressed to advancing in the research on and treatment of rare diseases, with groups at the University of Oxford (specialists in nanoparticles for nanomedicine), at the CIPF in Valencia (specialists in generating iPSCs and in differentiation into retina), and at the University of Barcelona (UB) (bioinformatics groups, for the analysis of gene networks and complex systems).

Members

POSTDOC - ASSOCIATE RESEARCHER

Serena Mirra

PHD STUDENT

Izarbe Aisa Marin, Elena Borrego Domènech, Vasileios Toulis

Selected projects

- Modelos animales para las distrofias de retina: estrategias de edición genómica, fenotipado y nanoterapia. Ministerio de Economía y Competitividad. SAF2016-80937-R. Proyectos de I+D+I 2016, programa estatal de investigación, desarrollo e innovación orientada a los retos de la sociedad. PI: Gemma Marfany Nadal (coPI: Roser Gonzalez Duarte). 2016-2020.
- Enfermedades Raras. Ministerio de Sanidad y Consumo. Convocatòria d'ajuts destinats a finançar estructures estables d'investigació cooperativa, a l'àrea de biomedicina i ciències de la salut, en el marc del Programa Ingenio 2010, Programa Consolider, accions CIBER. CB06/07/0041. PI: Gemma Marfany Nadal (coPI: Roser Gonzalez Duarte). 2018-2020.
- Contractes KnowHow. DBGEN Ocular Genomics, S.L. Fundació spin-off de diagnòstic genètic de malalties hereditàries de la visió. 309710. PI: Gemma Marfany Nadal (coPI: Roser Gonzalez Duarte). 2018 - 2023.



8

PUBLICATIONS
WITH IF

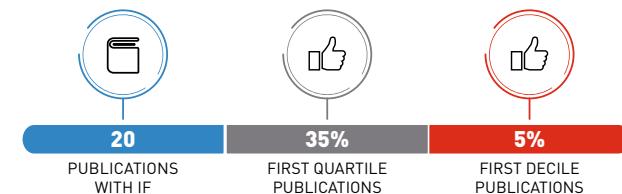
37%

FIRST QUARTILE
PUBLICATIONS**Selected publications**

- Trigueros S, Domènech EB, Toulis V and Marfany G. In Vitro Gene Delivery in Retinal Pigment Epithelium Cells by Plasmid DNA-Wrapped Gold Nanoparticles. *Genes (Basel)*. 2019; 10(4). FI: 3,331(Q2)
- Bolinches-Amorós A, León M, Del Buey Furió V, Marfany G, González-Duarte R, Erceg S and Lukovic D. Generation of an iPSC line from a retinitis pigmentosa patient carrying a homozygous mutation in CERKL and a healthy sibling. *Stem Cell Res.* 2019; 38: 101455 - 101455. FI: 3,929(Q1)
- Arenas-Galnares R, Castillo-Lara S, Toulis V, Boloc D, González-Duarte R, Marfany G, Abril JF. RPGeNet v2.0: expanding the universe of retinal disease gene interactions network. *Database, Database*. 2019; 2019, baz120, doi:10.1093/database/baz120. FI: 3,68(Q1)
- Mirra S and Marfany G. Mitochondrial gymnastics in retinal cells: a resilience mechanism against oxidative stress and neurodegeneration. *Adv Exp Med Biol.* 2019; 1185: 513 - 5179. FI: 2,126(Q2)

ETIOPATHOGENESIS AND TREATMENT OF SEVERE MENTAL DISORDERS (MERITT)

Susana Ochoa Güerre, MD, PhD
Judith Usall Rodié, MD, PhD



We continued to work on various financed research projects addressed to the study of protective and risk factors in first psychotic episodes, and of metacognition and social cognition in psychosis. In the field of biomarkers, we worked on various projects in coordination with the clinical area.

During 2019, our team obtained financing for predoctoral personnel assigned to research groups. A total of 4 persons are attached to our research groups thanks to predoctoral project grants.

Our group's impact factor and our number of publications remained at levels similar to those of previous years.

Members

STAFF RESEARCHER

Antonio Manuel Alba Muñoz, Hilari Andress Mora, Belén Arranz Martí, Emma Casas Anguera, Marta Coronona Sadurní, Ruth Cunill Clotet, María José Escandell Morcillo, Gemma Escartín Martín, Gemma Escuder Romeva, Mar García Franco, María Elena Huerta Ramos, Marcia Irazábal Giménez, Francisco Martínez Zambrano, Eva Miquel Fernández, María Trinidad Peláez Martínez, Belén Ramos Josemaría, Elena Rubio Abadal, Luis San Molina, Sonia Vilamala Anton

PHD STUDENT

Lucía Beatriz Díaz Cutraro, Silvia Marcó García, América Jennifer Vera Montecinos, Elia Vila Andreu

ASSISTANT RESEARCHER

Ana Butjosa Molines, Núria del Cacho Ortega, Marta Ferrer Quintero, Clara Serra Arumí, Marina Verdaguér Rodríguez

COLLABORATOR RESEARCHER

Joan Costa Escolà, Raquel López Carrilero, Alfonso Monje Hernández, Francisco Vidal Domenech, Regina Vila Badia

Selected publications

- Nuñez C, Stephan-Otto C, Usall J, Bioque M, Lobo A, González-Pinto A, et al. Neutrophil Count Is Associated With Reduced Gray Matter and Enlarged Ventricles in First-Episode Psychosis. *Schizophr Bull*. 2019; 45(4): 846 - 858. FI: 7,289(Q1)
- Siddi S, Ochoa S, Laroi F, Cella M, Raballo A, Saldivia S, et al. A Cross-National Investigation of Hallucination-Like Experiences in 10 Countries: The E-CLECTIC Study. *Schizophr Bull*. 2019; 45(45 Suppl 1): S43-S55. FI: 7,289(Q1)
- López-González I, Pinacho R, Vila È, Escanilla A, Ferrer I, Ramos B. Neuroinflammation in the dorsolateral prefrontal cortex in elderly chronic schizophrenia. *Eur Neuropsychopharmacol*. 2019; 29(3): 384 - 396. FI: 4,468(Q1)
- Dolz M, Tor J, De la Serna E, Pardo M, Muñoz Samons D, Rodríguez Pascual M, et al. Characterization of children and adolescents with psychosis risk syndrome: The Children and Adolescents Psychosis Risk Syndrome (CAPRIS) study. *Early Interv Psychiatry*. 2019; 13(5): 1062 - 1072. FI: 3,323(Q2)

Networks

- CIBERSAM
- GRUp de dona i salut mental. Societat Catalana de Psiquiatria i Salut Mental

RESEARCH IN CHILD AND ADOLESCENT MENTAL HEALTH

Montserrat Dolz Abadia, MD, PhD

The basic focus of our research group is clinical research on various psychiatric disturbances, with special emphasis on neurodevelopmental disorders. At present our efforts are centred on the study of childhood-onset psychoses (PI: Dr Dolz), attention deficit hyperactivity disorders (ADHD; PI: Dr Alda), and autism spectrum disorders (ASD; PI: Dr Mairena).

In recent years, our group has become consolidated through the performance of various projects financed by both public institutions (FIS projects) and private ones, and through collaborations with various stable research groups of the mental health biomedical research network CIBERSAM, such as Group G04 of the Hospital Clínic i Provincial de Barcelona and Group G01 of the Hospital Gregorio Marañón in Madrid. One of the highlights of 2019 was the grant of the European project SAVE, centred on the detection and treatment of trauma in children exposed to domestic violence (PI: Álvarez). In the national sphere, another highlight was the grant of a competitive project focused on the validation of a parenting programme for preschool children with autism and speech delay.

Members

STAFF RESEARCHER

José Ángel Alda Díez, Mar Alvarez Segura, Ester Camprodón Rosanas, María Díez Juan, Fernando Lacasa Saludes, Mª Ángeles Mairena García de la Torre, Josep Lluís Matalí Costa, Laia Mollà Cusí, Daniel Muñoz Samons, Marta Pardo Gallego, Eduardo Serrano Troncoso, Anna Sintes Estevez, Esther Via Virgili

PHD STUDENT

Ania Perez Racana, Jordina Tor Fabra

ASSISTANT RESEARCHER

Anna Martínez García, Sara Parrilla Carrasco, Almudena Ramírez Martín, Paula Resina Curado, Miriam Sanabria González, Berta Sanfeliú Salvà, Carlota Saumell Andreu, Ingrid Tortadès Arumí

COLLABORATOR RESEARCHER

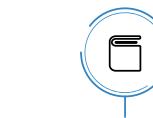
Laura Puigcerver Navarro

Selected projects

- SAVE_Support and treatment of traumatized children After ViolencE. European Commission. REC-RDAP-GBV-AG. 856677. PI: Mar Alvarez Segura. 2019 - 2021.
- First Steps: estudio piloto aleatorizado para la implementación del programa de parentalidad Incredible Years® en preescolares con autismo y retraso del lenguaje en España. Fundación Alicia Koplowitz. Ayudas a proyectos de investigación. PI: Laia Villalta Maciá. 2019 - 2021.
- Placebo-Controlled trial in Ultra-hihg Risk for Psychosis with Omega-3 fatty acids in Europe (PURPOSE). Stanley Medical Research Institute. EudraCT_2015-003503-39. PI: Montserrat Dolz Abadia. 2017 - 2021.

Selected publications

- Campodon-Rosanas E, Pujol J, Martínez-Vilavella G, Blanco-Hinojo L, Medrano-Martorell S, Batlle S, et al. Brain Structure and Function in School-Aged Children With Sluggish Cognitive Tempo Symptoms. *J Am Acad Child Adolesc Psychiatry*. 2019; 58(2): 256 - 266. FI: 6,391(Q1)
- Estrada-Prat X, Van Meter AR, Camprodón-Rosanas E, Batlle-Vila S, Goldstein BI, Birmaher B. Childhood factors associated with increased risk for mood episode recurrences in bipolar disorder-A systematic review. *BIPOLAR DISORD*. 2019; 21(6): 483 - 502. FI: 4,936(Q1)
- Dolz M, Tor J, De la Serna E, Pardo M, Muñoz Samons D, Rodríguez Pascual M, et al. Characterization of children and adolescents with psychosis risk syndrome: The Children and Adolescents Psychosis Risk Syndrome (CAPRIS) study. *Early Interv Psychiatry*. 2019; 13(5): 1062 - 1072. FI: 3,323(Q2)



13

PUBLICATIONS WITH IF



61%

FIRST QUARTILE PUBLICATIONS

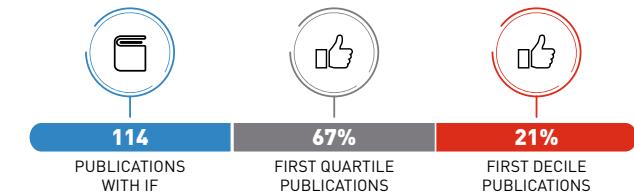


23%

FIRST DECILE PUBLICATIONS

EPIDEMIOLOGY OF MENTAL DISORDERS AND AGING

Josep Maria Haro Abad, MD, PhD
Ai Koyanagi, MD, PhD



Members

STAFF RESEARCHER

Paula Cristobal Narvaez, Andrea De La Garza Puentes, Mireia Félez Nóbrega, Albert Sánchez Niubó, Sara Siddi, Stefano Tyrovolas

POSTDOC - ASSOCIATE RESEARCHER

Beatriz Olaya Guzmán

ASSISTANT RESEARCHER

Ivet Bayes, Joan Domènech Abella, Daniel Fernández Martínez, Aina Gabarrell Pascuet, Iago Giné Vázquez, Desirée Gutiérrez Marin, Blanca Mellor Marsa, María Victoria Moneta, Anna Monistrol Mula, Agnès Montoya Rimbaud, Ziggi Santini, Teresa Torres Moral, Elisabeth Catharina Wilhelmina Vorstenbosch

MANAGEMENT

Carla Obradors Tarragó

Selected projects

- Epidemiología de los factores asociados con el envejecimiento saludable. Ministerio de Economía Y Competitividad (MINECO). Proyectos JIN_Jóvenes Investigadores. RTI2018-100927-J-I00. PI: Daniel Fernández Martínez. 2019 - 2022.
- Estudio bienestar y salud post migración: detección necesidades psicosoc. y sanitarias. Ministerio de Trabajo, Migraciones y Seguridad Social. Convocatoria FAMI. II IN 180803 EN 162 FA 01. PI: Josep Maria Haro Abad. 2019 - 2019.
- Ayudas Juan de la Cierva - Formación. Beneficiario: Paula Cristóbal. Ministerio de Economía Y Competitividad (MINECO).J uan de la Cierva-Formación. FJCI-2017-31655. PI: Josep Maria Haro Abad. 2019 - 2020.
- SYNCHROS: SYNergies for Cohorts in Health: integrating the ROle of all Stakeholders. European Commission. H2020-SC1-HCO-09. 82884. PI: Josep Maria Haro Abad. 2019 - 2021.
- Frailty and ageing assessment: Research of global patterns and determinants. Instituto de Salud Carlos III (ISCIII). Miguel Servet I (Proyecto). CP18/00006. PI: Stefanos Tyrovolas. 2019 - 2022.

Selected publications

- Burstein R, Henry NJ, Collison ML, Marczak LB, Sligar A, Watson S, et al. Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. *Nature*. 2019; 574(7778): 353 - 358. FI: 43,070(Q1)
- Vancampfort D, Firth J, Correll CU, Solmi M, Siskind D, De Hert M, et al. The impact of pharmacological and non-pharmacological interventions to improve physical health outcomes in people with schizophrenia: a meta-review of meta-analyses of randomized controlled trials. *World Psychiatry*. 2019; 18(1): 53 - 66. FI: 34,024(Q1)
- Kim JY, Son MJ, Son CY, Radua J, Eisenhut M, Gressier F, et al. Environmental risk factors and biomarkers for autism spectrum disorder: an umbrella review of the evidence. *Lancet Psychiatry*. 2019; 6(7): 590 - 600. FI: 18,329(Q1)
- Firth J, Siddiqui N, Koyanagi A, Siskind D, Rosenbaum S, Galletly Cet al. The Lancet Psychiatry Commission: a blueprint for protecting physical health in people with mental illness. *Lancet Psychiatry*. 2019; 6(8): 675 - 712. FI: 18,329(Q1)
- Degenhardt L, Bharat C, Glantz MD, Sampson NA, Al-Hamzawi A, Alonso J, et al. Association of Cohort and Individual Substance

Use With Risk of Transitioning to Drug Use, Drug Use Disorder, and Remission From Disorder: Findings From the World Mental Health Surveys. *JAMA Psychiatry*. 2019; 76(7): 708 - 720. FI: 15,916(Q1)

Networks

- CIBERSAM
- European Innovation Partnership on Active and Healthy Ageing (the Partnership)

HEALTH TECHNOLOGY ASSESSMENT IN PRIMARY CARE AND MENTAL HEALTH (PRISMA)

Maria Rubio Valera, PhD
Antoni Serrano Blanco, MD, PhD

The PRISMA research group has expanded its research on healthcare services with projects focused on cancer, stroke and preventive activities. Likewise, it has increased its line of initial medication non-adherence with paediatrics projects and the pilot test of the intervention, and it has kept up the collaboration with Barcelona Provincial Council for territorial diagnoses of mental health in Catalonia, while remaining active in the national research networks CIBERESP and redIAPP. In the clinical field, we lead an innovative public purchasing project for restraint-free hospitals, and we collaborated with EURECAT on the LiveIncite project for the development of an app that will minimise surgical complications. In the teaching sphere, we co-led the publication of the first Spanish-language psychiatric hospitalisation manual.

Members

STAFF RESEARCHER

Luisa Baladón Higuera, Vanessa Barneda, Víctor Chavarriá Romero, Laura González Suñer, Cristina López Ortiz

POSTDOC - ASSOCIATE RESEARCHER

Ignacio Aznar Lou, Elisabeth Parody Rua, Carlos Peña Salazar, Enric Vicens Pons

PHD STUDENT

Cristina Carbonell Duacastella, María Montserrat Gil Gibau, Carles Vilaplana Carnerero

ASSISTANT RESEARCHER

Claudia Costa Iracheta

COLLABORATOR RESEARCHER

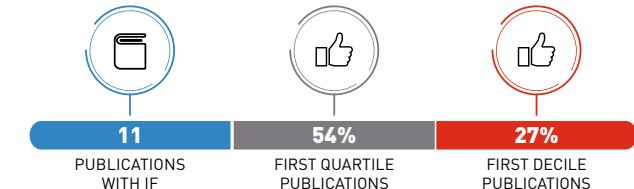
Ana Fernández Sánchez, Carme Gallardo González, María Iglesias González, Ana María Jové Massó, Martín Knapp, María Antonia March Pujol, Paul McCrone, Juan Manuel Mendive Arbeloa, María Teresa Peñarrubia María, Ramón Sabes Figuera, Lluís Salvador Carulla

Selected projects

- CIBER_Epidemiology and Public Health. Instituto de Salud Carlos III (ISCIII). CIBER. CB16/02/00322. PI: Antonio Serrano Blanco. 2017-2020.
- Evaluación económica de una intervención compleja multiriesgo para promover conductas saludables en personas de 45-75 años atendidas en Atención Primaria: estudio Econ-EIRA3. Instituto de Salud Carlos III (ISCIII). FIS. PI15/00519. PI: Antonio Serrano Blanco. 2016-2020.
- Prevalencia e impacto de la no iniciación del tratamiento farmacológico en población pediátrica: estudio No Iniciadores-Pediátrico. Universidad Europea de Madrid S.L.U. Proyectos de Investigación en Salud. 2018/UEM51. PI: María Rubio Valera. 2018 - 2020.

Selected publications

- Aznar Lou I, Carbonell Duacastella C, Rodríguez A, Mera I, Rubio-Valera M. Prevalence of Medication-Dietary Supplement Combined Use and Associated Factors. *Nutrients*. 2019; 11(10). FI: 4,171(Q1)
- Resurrección DM, Moreno-Peral P, Gómez-Herranz M, Rubio-Valera M, Pastor L, Caldas de Almeida JM, Motrico E. Factors associated with non-participation in and dropout from cardiac rehabilitation programmes: a systematic review of prospective cohort studies. *Eur J Cardiovasc Nurs*. 2019; 18(1): 38 - 47. FI: 2,497(Q1)
- Rubio-Valera M, Peñarrubia-María MT, Iglesias Gonzalez M, Knapp M, McCrone P, Roig M, et al. Cost-effectiveness of antidepressants versus active monitoring for mild-to-moderate major depressive disorder: a multisite non-randomized-controlled trial in primary care (INFAP study). *Eur J Health Econ*. 2019; 20(5): 703 - 713. FI: 2,169(Q1)
- Aznar-Lou I, Iglesias Gonzalez M, Rubio-Valera M, Peñarrubia-María MT, Mendive Arbeloa JM, Murruarraga-Centurión AG, et al. Diagnostic accuracy and treatment approach to depression in primary care: predictive factors. *Fam Pract*. 2019; 36(1): 3 - 11. FI: 1,986(Q2)



Networks

- Consorcio de Investigación Biomédica en Red de Epidemiología y Salud Pública (CIBERESP) des de 2017.
- Red de Investigación en actividades Preventivas y de Promoción de la Salud (redIAPP). Des de 2007.

PSYCHOLOGICAL RESEARCH GROUP ON FIBROMYALGIA AND CHRONIC PAIN (AGORA GROUP)

Juan Vicente Luciano Devis, PhD

Dr. Albert Feliu and Dr Juan V. Luciano (PI of the AGORA group), together with Dr Xavier Borràs, directed Elvira Reche Camba's doctoral thesis, which was defended at the Autonomous University of Barcelona (UAB), obtaining the highest rating. Aside from this, one of the most important aspects to be pointed out here is that five papers of the EUDAIMON project (mindfulness in the approach to fibromyalgia) were published in 1st decile journals (PAIN, Journal of Clinical Medicine, and Brain Behavior & Immunity). The ULTREYA project ("The effects of the pilgrimage to Santiago on mindfulness, mental health and well-being") was one of the winners of the 2019 edition of the Barcelona Magic Line. Two researchers of our group (Dr Adrián Pérez and Dr Albert Feliu) undertook a three-month research stay at the London School of Economics with Prof. Martin Knapp, and another researcher (Laura Andrés) undertook a research stay at Chulalongkorn University (Thailand), also for three months, with Dr Michael Maes, a world expert on psychoneuroimmunology applied to mood disturbances.

Members

STAFF RESEARCHER

Antoni Rozadilla Sacanell, Lluis Torruela Barraquer

POSTDOC - ASSOCIATE RESEARCHER

Albert Feliu Soler

PHD STUDENT

Laura Andrés Rodríguez, Adrián Pérez Aranda

ASSISTANT RESEARCHER

Claudia Costa Iracheta

COLLABORATOR RESEARCHER

Jaume Aguado Carné, Xavier Borràs Hernández, Eugenia Cardeñosa Valera

Selected projects

- Efectos neurobiológicos de una intervención basada en mindfulness (MBSR) vs. Psico-educativa (FibroQoL) en pacientes con fibromialgia (Proyecto EUDAIMON). Instituto de Salud Carlos III (ISCIII). FIS. PI15/00383. PI: Juan Vicente Luciano Devis. 2016-2019.
- Miguel Servet Tipo I (Proyecto Asociado) Cost-effectiveness of a Mindfulness-Based Stress Reduction (MBSR) treatment for fibromyalgia syndrome: A 12-month randomised, controlled trial. Instituto de Salud Carlos III (ISCIII). Miguel Servet tipo I. CP14/00087. PI: Juan Vicente Luciano Devis. 2015-2019.
- Andrés Rodríguez L, Borràs X, Feliu-Soler A, Pérez Aranda A, Rozadilla-Sacanell A, Montero-Marin J, et al. Immune-inflammatory pathways and clinical changes in fibromyalgia patients treated with Mindfulness-Based Stress Reduction (MBSR): A randomized, controlled clinical trial. Brain Behav Immun. 2019; 80: 109 - 119. FI: 6,170(Q1)
- Pérez-Aranda A, Andrés-Rodríguez L, Feliu-Soler A, Núñez C, Stephan-Otto C, Pastor-Mira MA, et al. Clustering a large Spanish sample of patients with fibromyalgia using the FIQR: differences in clinical outcomes, economic costs, inflammatory markers and gray matter volumes. Pain. 2019; 160(9): 908-921. FI: 6,029(Q1)

Selected publications

- Pérez Aranda A, Feliu-Soler A, Montero-Marin J, García-Campayo J, Andrés Rodríguez L, Borràs X, et al. A randomized controlled efficacy trial of Mindfulness-Based Stress Reduction compared to an active control group and usual care for fibromyalgia: the EUDAIMON study. Pain. 2019; 160(11): 2508 - 2523. FI: 6,029(Q1)
- Pérez Aranda A, D'Amico F, Feliu-Soler A, McCracken LM,



Networks

- The following members of the AGORA group participate in the RedIAPP (ISCIII; RD16/0007/0012): Laura Andrés Rodríguez, Albert Feliu Soler, Juan Vicente Luciano Devis, Adrián Pérez Aranda

CEREBRAL IMPRINTS OF GENDER, DEVELOPMENT AND PATHOLOGY

Christian Stephan-Otto Attolini, PhD

Our group has carried on with its research based on neuroimaging applied to various biomedical disciplines. For example, we reported, for the first time, that the brain of patients with a first psychotic episode shows a loss of grey matter associated with an increased blood concentration of neutrophils [an inflammation indicator]. We began to explore new lines of research, one of which is addressed to analysing the early structural changes in the brain of persons at risk of developing Alzheimer's disease.

Members

STAFF RESEARCHER

Christian Núñez Leánez,
Gildas Yanin Guillaume Brebion

PHD STUDENT

Ma. Rosa Cambra,
Federica Lombardini

Selected projects

- SGR 2017_Cerebral imprints of gender, development and pathology. Agaur - Agència de Gestió d'Àjuts Universitaris i de Recerca. SGR 2017-2019. 2017 SGR 1297. PI: Christian Stephan-Otto Attolini. 2017 - 2020.
- Bases neurofuncionales de la anomalía del discurso interior en las alucinaciones verbales. Instituto de Salud Carlos III (ISCIII). FIS. PI14/00047. PI: Gildas Yanin Guillaume Brebion. 2015 - 2019

Selected publications

- Nuñez C, Stephan-Otto C, Usall J, Bioque M, Lobo A, González-Pinto A, et al. Neutrophil Count Is Associated With Reduced Gray Matter and Enlarged Ventricles in First-Episode Psychosis. *Schizophr Bull.* 2019; 45(4): 846 - 858. FI: 7,289(Q1)
- Núñez C, Arca G, Agut T, Stephan-Otto C, García-Alix A, Precise neonatal arterial ischemic stroke classification with a three-dimensional map of the arterial territories of the neonatal brain. *Pediatric Research.* 2019;1-6.
- Siddi S, Nuñez C, Senior C, Preti A, Cuevas-Esteban J, Ochoa S, et al. Depression, auditory-verbal hallucinations, and delusions in patients with schizophrenia: Different patterns of association with prefrontal gray and white matter volume. *Psychiatry Res Neuroimaging.* 2019; 283: 55 - 63. FI: 2,270(Q3)
- Brebion G, Stephan-Otto C, Ochoa S, Cuevas-Esteban J, Núñez Navarro A and Usall J. Clinical and non-clinical hallucinations are similarly associated with source memory errors in a visual memory task. *Conscious Cogn.* 2019; 76: 102823 - 102823. FI: 1,855(Q3)



6
PUBLICATIONS
WITH IF



67%
FIRST QUARTILE
PUBLICATIONS



33%
FIRST DECILE
PUBLICATIONS

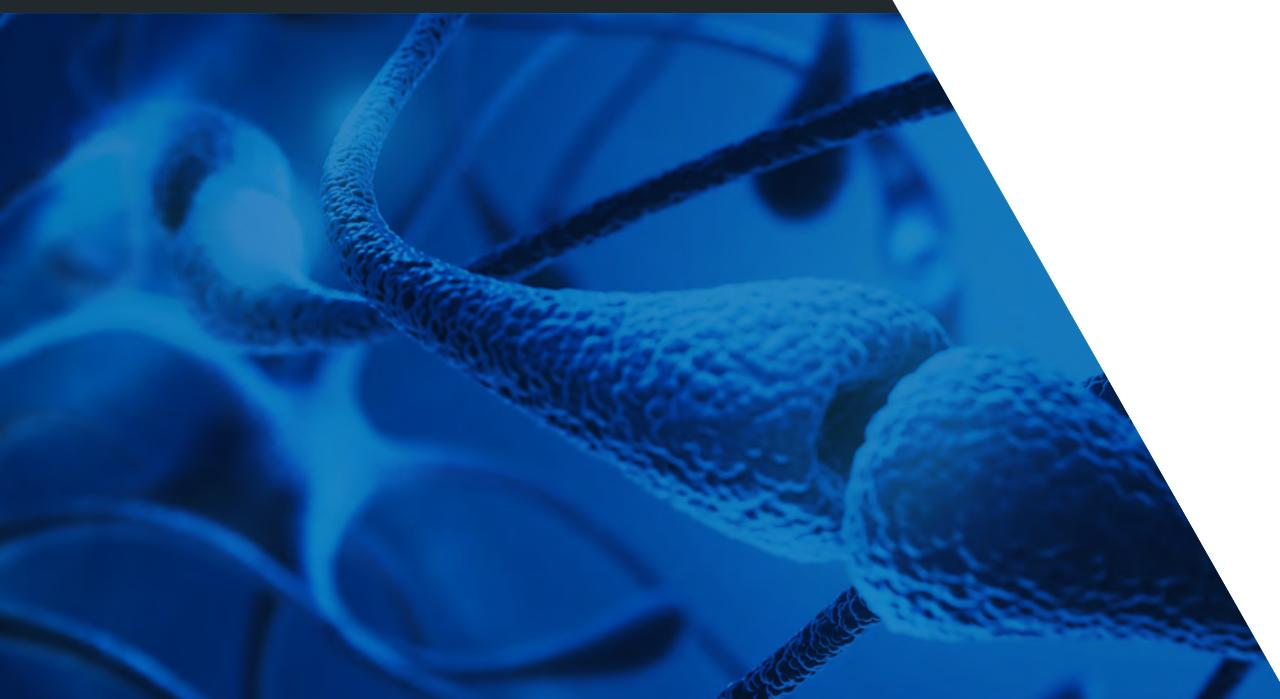
Networks

- Centro de Investigación Biomédica en Red de Salud Mental (CIBER-SAM)



SJD

Sant Joan de Déu
Institut de Recerca



8

ADAPTIVE RESPONSE, METABOLISM AND IMMUNOBIOLOGY

Metabolic endocrinology

Metabolic diseases of paediatric origin

Molecular biology and gene regulation of adipose tissue and its pathologies

Neonatology research group

Pharmacological targets in inflammation and metabolic diseases

Study of diseases due to immune dysfunction in pediatrics (GEMDIP)

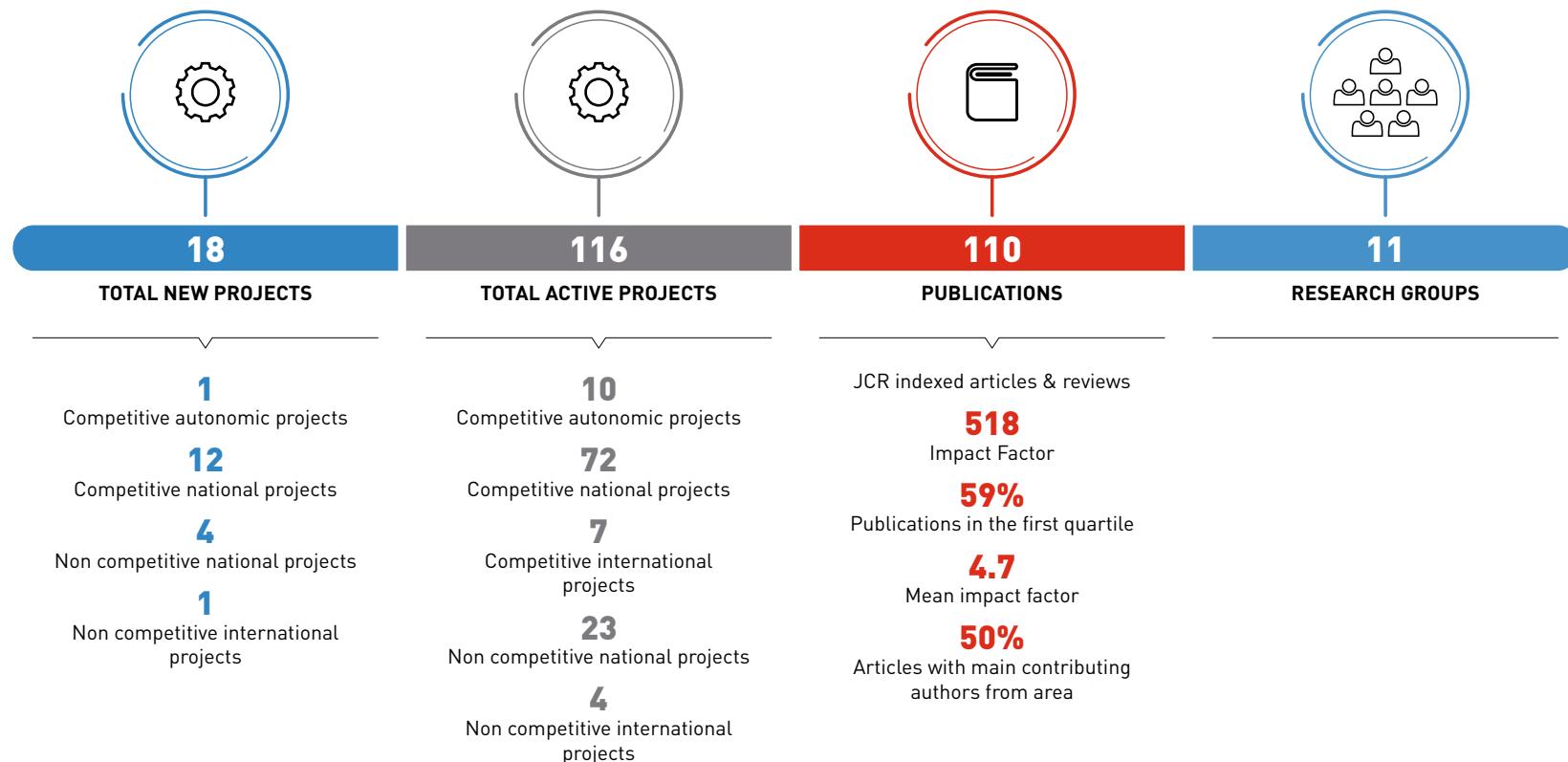
Infectious diseases and microbiome

Gut microbiota

Environment and complications in pregnancy

Cardiovascular diseases in development

Immune and respiratory dysfunction in the critical child



METABOLIC ENDOCRINOLOGY

Lourdes Ibáñez Toda, MD, PhD

In 2019, we finished the analysis of the FIS 2015 data, which have allowed the demonstration of the effectiveness of a new pathophysiological treatment for polycystic ovary syndrome in adolescents. We also identified new prognostic markers of the treatment's effectiveness.

Members

STAFF RESEARCHER

Paula Casano Sancho, Marta Díaz Silva, Silvia Xargay Torrent

ASSISTANT RESEARCHER

Cristina García Beltran, Esther Lizarraga Mollinedo, Rita María Martins de Sousa Maia Malpique, Cristina Plou Pérez

COLLABORATOR RESEARCHER

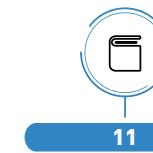
Judith Bassols Casadevall, Francis de Zegher, Abel López Bermejo

Selected projects

- Perfil longitudinal de exosomas circulantes y de su proteoma en niños nacidos con bajo peso y peso adecuado para la edad gestacional: Utilidad como biomarcador de síndrome metabólico. Instituto de Salud Carlos III (ISCIII). PI: PI18/00109. PI: Lourdes Ibáñez Toda. 2019-2021.
- Pioglitazona + espironolactona + metformina versus contracepción oral en adolescentes con hiperandrogenismo ovárico e hiperinsulinismo. Instituto de Salud Carlos III (ISCIII). FIS. PI15/01078. PI: Lourdes Ibáñez Toda. 2016-2019.
- Maternal diet, microbiome and infant feeding practice: roles in initializing the fetal gut microbiome and establishing the infant gut microbiome. Icahn School of Medicine at Mount Sinai. ICAHN – Microbiota. PI: Lourdes Ibáñez Toda. 2015-2019.

Selected publications

- de Sousa-Malpique RM, Gallego-Escuredo JM, Sebastiani G, Villarroya J, López-Bermejo A, de Zegher F, et al. Brown adipose tissue in prepubertal children: associations with sex, birthweight, and metabolic profile. *Int J Obes (Lond)*. 2019; 43(2): 384 - 391. FI: 4,514(Q1)
- Ibañez-Toda L and de Zegher F. Exploring the use of metformin in pregnant women with polycystic ovary syndrome: new evidence, new wisdom. *Lancet Diabetes Endocrinol*. 2019; 7(4): 242 - 243. FI: 24,540(Q1)
- Sebastiani G, García-Beltran C, Pie S, Guerra A, López-Bermejo A, Sanchez-de-Toledo J, et al. The sequence of prenatal growth restraint and postnatal catch-up growth: normal heart but thicker intima-media and more pre-peritoneal fat in late infancy. *Pediatr Obes*. 2019; 14(3): e12476. FI: 3,713(Q1)



11

PUBLICATIONS WITH IF



91%

FIRST QUARTILE PUBLICATIONS

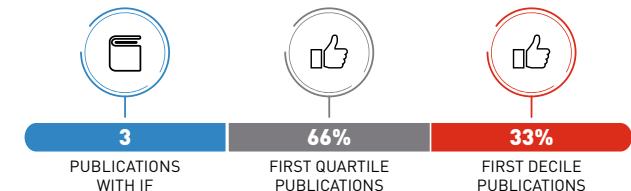


54%

FIRST DECILE PUBLICATIONS

METABOLIC DISEASES OF PAEDIATRIC ORIGIN

Josep Jiménez Chollarón, PhD
Carles Lerin Martínez, PhD



Members

STAFF RESEARCHER

Rubén Díaz Naderi, Marta Ramon Krauel, Montse Amat-Bou, Charlotte Juton

POSTDOC - ASSOCIATE RESEARCHER

Marcela Catalina Parra Vargas, Francesc Ribas Aulinas

COLLABORATOR RESEARCHER

Ivonne Palacios Marin, Marina Llobert

Selected projects

- BetAkk: Microbiota intestinal durante las primeras etapas de la vida y riesgo de obesidad y enfermedades metabólicas a largo plazo. Ministerio de Economía Y Competitividad (MINECO). Retos Investigación: Proyectos I+D+i. SAF2017-88005-R. PI: Carles Lerin Martínez. 2018-2020.
- Modifying maternal nutrition during lactation to improve offspring life-course health outcomes. Ajinomoto Co., Inc. Ajinomoto Innovation Alliance Program. Ajinomoto Innovation Alliance Program. PI: Carles Lerin Martínez. 2015-2019.
- TransEpiR: Herencia no-genómica de la obesidad mediante ARNs no codificantes de pequeño tamaño. Ministerio de Economía Y Competitividad (MINECO). Retos Investigación: Proyectos I+D+i. SAF2017-84542-R. PI: Josep Jiménez Chollarón. 2018-2020.
- Molecular determinants that link neonatal nutrition with late onset diabetes: epigenetic regulation of the circadian clock. European Foundation for the Study of Diabetes. Programme for Diabetes Research in Europe. EFSD/Lilly 2015. PI: Josep Jiménez Chollarón. 2016-2020.

Selected publications

- Corriño R, Giménez-Palop O, Ibañez-Toda L, Ramon-Krauel M, Rivero MJ, Vela A. Controversias del tratamiento con hormona de crecimiento en pacientes con síndrome de Prader-Willi. *Acta Pediatr Esp.* 2019; 77(1-2): 6 - 11. FI: (Q)
- Isganaitis E, Venditti S, Matthews TJ, Lerin C, Demerath EW, Fields DA. Maternal obesity and the human milk metabolome: associations with infant body composition and postnatal weight gain. *Am J Clin Nutr.* 2019; 110(1): 111 - 120. FI: 6,568(Q1)
- Madsen JOB, Casteels K, Fieuws S, Kristensen K, Vanbrabant K, Ramon-Krauel M, et al. No Effect of an Automated Bolus Calculator in Pediatric Patients with Type 1 Diabetes on Multiple Daily Injections: The Expert Kids Study. *Diabetes Technol Ther.* 2019; 21(6): 322 - 328. FI: 4,488(Q1)
- Taxeràs SD, Galán M, Campderrós L, Piquer-Garcia, Pellitero, Martínez E, et al. Differential association between S100A4 levels and insulin resistance in prepubertal children and adult subjects with clinically severe obesity. *Obes Sci Pract.* 2019; 1 - 9. FI: (Q)

MOLECULAR BIOLOGY AND GENE REGULATION OF ADIPOSE TISSUE AND ITS PATHOLOGIES

Francesc Villarroya Gombau, PhD

In 2019, our team continued its basic and translational research on the control mechanisms of adiposity and metabolism, and their changes under pathological conditions such as obesity, diabetes, and lipodystrophies, and also in cardiovascular pathology. We identified new adipokines which are predominantly produced by brown adipose tissue, and new intracellular control factors of adipose plasticity in response to hormonal stimuli. In the translational field, we analysed the activity of the brown adipose tissue and the variations in the levels of new metabolic biomarkers in connection with pathophysiological determinants in the paediatric population.

Members

STAFF RESEARCHER

Marta Giralt Oms, Roser Iglesias Coll, Teresa Mampel Astals, Marion Peyrou, Anna Planavila López

POSTDOC - ASSOCIATE RESEARCHER

Montserrat Cairó Calzada, Rubén Cereijo Téllez, Aleix Gavalda Navarro, Joan Villarroya Terrade

PHD STUDENT

Laura Campderrós Traver, Moisès Castellà Giner, Alejandro Delgado Anglés, Gemma Ferrer Curriu, Samantha Morón Ros, Tania Quesada López, Celia Helena Rupérez Gonzalo

TECHNICIAN

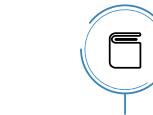
Mercedes Morales Rueda, Gemma Moreno Besora, Albert Però Garcia

Selected projects

- Cardioquinas y control de la función cardíaca: Nuevos actores y mecanismos, estrategias de terapia génica, y elucidación del secretoma cardíaco humano. Ministerio de Ciencia, Innovación y Universidades. Convocatòria d'ajuts del Programa Estatal d'Investigació, Desenvolupament i Innovació Orientada als reptes de la Societat. Modalitat Reptes. RTI2018-096137-B-I00. PI: Anna Planavila López. 2019 - 2021.
- Activar el tejido adiposo pardo: una nueva estrategia para la prevención/tratamiento de la hepatocarcinogénesis potenciada por la lipotoxicidad metabólica. Asociación Española Contra el Cáncer-Catalunya (AECC). Ideas Semilla. Ayudas Fundación Científica AECC a proyectos de investigación en cáncer. PI: Francesc Villarroya Gombau. 2019 - 2021.

Selected publications

- Cairo M, Campderros L, Gavalda A, Cereijo R, Delgado-Anglés A, Quesada T, et al. Parkin controls brown adipose tissue plasticity in response to adaptive thermogenesis. *Embo Rep.* 2019; 20(5). FI: 8,383(Q1)
- Quesada T, Gavalda A, Moron S, Campderros L, Iglesias R, Giralt M and Villarroya F. GPR120 controls neonatal brown adipose tissue thermogenic induction. *Am J Physiol Endocrinol Metab.* 2019; 317(5): E742-E750. FI: 4,125(Q1)
- Villarroya J, Cereijo R, Gavalda-Navarro A, Peyrou M, Giralt M, Villarroya F. New insights into the secretory functions of brown adipose tissue. *J Endocrinol.* 2019; 243(2):R19-R27. FI: 4,381 (Q1)
- Malpique R, Gallego-Escuredo JM, Sebastiani G, Villarroya J, López-Bermejo A, de Zegher F, et al. Brown adipose tissue in prepubertal children: associations with sex, birthweight, and metabolic profile. *Int J Obes (Lond.)*. 2019; 43(2):384-391. FI: 4,515 (Q1)



10

PUBLICATIONS WITH IF



80%

FIRST QUARTILE PUBLICATIONS



20%

FIRST DECILE PUBLICATIONS

Networks

- Red de Excelencia "Adipoplast". Ministerio de Economía y Competitividad. Desde 2017
- CIBERONB

NEONATOLOGY RESEARCH GROUP

Martin Iriondo Sanz, MD, PhD

We analysed and published the positive results of introducing donor milk on the in-hospital health of infants born at or before 32 weeks of gestation who were admitted to our unit. We recruited very preterm (VP) mother-infant pairs and started experimental work aimed at analysing in greater depth the mechanisms by which mother's milk favourably affects a range of prematurity outcomes. We also carried out and published a detailed analysis of growth assessment methods applied to the NUTRIPREM cohort of VP infants and we continued to follow up their physical and neurological development to assess the impact of early nutritional support.

Likewise, we developed a mortality calculator for Spanish preterm infants based on data from the SEN-1,500 Network, and we defined three predictive models for neonatal death (prenatal, first 24 hours of life, and during admission).

A grant has been requested for a prospective validation project on the mortality calculator.

Members

STAFF RESEARCHER

Carla Balcells Esponera, Marta Camprubí Camprubí, Beatriz Del Rey Hurtado De Mendoza, Isabel Iglesias Platas, Montserrat Izquierdo Renau, Africa Pertierra Cortada

COLLABORATOR RESEARCHER

Marta Thió Lluch, Josep Figueras Aloy, Mattia Bosio, Albert Batista, Cristina Durán

Selected projects

- Predicción de supervivencia sin morbilidad neonatal y sin discapacidad moderada-grave del neurodesarrollo en recién nacidos prematuros de la red española SEN1500. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación en salud. PI16/00748. PI: Martin Iriondo Sanz. 2017-2020.
- Leche humana: Nutrientes y factores bioactivos. Relación con el desarrollo de la microbiota intestinal, el crecimiento y la salud del recién nacido prematuro. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación. PI17/00107. PI: Isabel Iglesias Platas. 2018-2020.
- Estrés oxidativo y mielinización en pacientes con cardiopatía congénita: nuevos horizontes terapéuticos. Asociación Española de Pediatría. Beca de Investigación AEP. Ayuda a la Investigación, clínica o básica en Pediatría. PI: Marta Camprubí Camprubí. 2019-2021.



8

PUBLICATIONS
WITH IF



50%

FIRST QUARTILE
PUBLICATIONS



12%

FIRST DECILE
PUBLICATIONS

Selected publications

- Batista Muñoz A, Hadley S, Iriondo-Sanz M, Agut-Quijano T, Camprubí-Camprubí M. Role of beta-2-microglobulin as a biomarker in very preterm and extremely preterm infants with CNS inflammation. *PLoS One.* 2019; 14(5): e0216498. FI: 2,776(Q2)
- Cañizo Vázquez D, Salas García S, Izquierdo Renau M, Iglesias-Platas I. Availability of Donor Milk for Very Preterm Infants Decreased the Risk of Necrotizing Enterocolitis without Adversely Impacting Growth or Rates of Breastfeeding. *Nutrients.* 2019; 11(8). FI: 4,171(Q1)
- Izquierdo Renau M, Aldecoa-Bilbao V, Balcells Esponera C, Del Rey Hurtado de Mendoza B, Iriondo-Sanz M, Iglesias-Platas I. Applying Methods for Postnatal Growth Assessment in the Clinical Setting: Evaluation in a Longitudinal Cohort of Very Preterm Infants. *Nutrients.* 2019; 11(11). FI: 4,171(Q1)

Networks

- Several members of the group belong to the SAMID network (RD16 / 0022/0002. IP: Óscar García Algar), since April 2018

PHARMACOLOGICAL TARGETS IN INFLAMMATION AND METABOLIC DISEASES

Manuel Vázquez Carrera, PhD

In 2019 we demonstrated that the activation of HRI (heme-regulated eukaryotic translation initiation factor 2 α kinase) by a new compound which we developed may become a pharmacological target for the treatment of type 2 diabetes and other associated disorders such as non-alcoholic steatohepatitis. These new HRI activators increase FGF21 (fibroblast growth factor 21) levels and may be an alternative to the FGF21 analogues that are being studied for the treatment of non-alcoholic steatohepatitis, with the advantage of being suitable for oral administration, helping to avoid some of the adverse effects of such substances in this way.

Members

STAFF RESEARCHER

F. Xavier Palomer Tarridas

POSTDOC - ASSOCIATE RESEARCHER

Emma Barroso Fernández, Marta Montori Grau, Lucía Peña Moreno, Javier Pizarro Delgado

PHD STUDENT

David Aguilar Recarte

Selected projects

- New HRI activators for the treatment of type 2 Diabetes Mellitus. Fundació Caixa de Pensions "La Caixa". Caixa Impulse Programme 2018. C18-00006. PI: Manuel Vazquez Carrera. 2018-2020.
- Activación de PPAR β/δ y HRI: explorando nuevos mecanismos compensatorios para el tratamiento de la inflamación, la resistencia a la insulina y la esteatohepatitis no alcohólica. Ministerio de Ciencia, Innovación y Universidades. Convocatòria d'ajuts del Programa Estatal d'Investigació, Desenvolupament i Innovació Orientada als reptes de la Societat. Modalitat Reptes. RTI2018-093999-B-I00. PI: Manuel Vazquez Carrera. 2019 - 2021.

Selected publications

- Busquets O, Eritja À, López BM, Ettcheto M, Manzine PR, Castro-Torres RD, et al. Role of brain c-Jun N-terminal kinase 2 in the control of the insulin receptor and its relationship with cognitive performance in a high-fat diet pre-clinical model. *J NEUROCHEM.* 2019; 149(2): 255 - 268. FI: 4,870(Q1)
- Zarei M, Pujol E, Quesada T, Villarroya F, Barroso E, Vázquez S, et al. Oral administration of a new HRI activator as a new strategy to improve high-fat-diet-induced glucose intolerance, hepatic steatosis, and hypertriglyceridaemia through FGF21. *Br J Pharmacol.* 2019; 176(13): 2292 - 2305. FI: 6,583(Q1)
- Rodríguez-Calvo R, Girona J, Rodríguez M, Samino S, Barroso E, de Gonzalo-Calvo D, et al. Fatty acid binding protein 4 (FABP4) as a potential biomarker reflecting myocardial lipid storage in type 2 diabetes. *Metabolism.* 2019; 96: 12 - 21. FI: 6,513(Q1)
- Márquez A, Aymerich J, Dei M, Rodríguez-Rodríguez R, Vazquez M, Pizarro J, et al. Reconfigurable multiplexed point of Care System for monitoring type 1 diabetes patients. *Biosens Bioelectron.* 2019; 136: 38 - 46. FI: 9,518(Q1)



Networks

- 2007 CIBERDEM

STUDY OF DISEASES DUE TO IMMUNE DYSFUNCTION IN PEDIATRICS (GEMDIP)

Laia Alsina Manrique de Lara, MD, PhD
Jordi Antón López, MD, PhD

Dr. Antón's group participated in clinical trials of key importance for the handling of autoinflammatory disorders, juvenile idiopathic arthritis, and systemic lupus erythematosus, as well as in the analysis of the safety profiles with biological drugs. It is also a national reference group in the study of such disorders as juvenile dermatomyositis, juvenile idiopathic arthritis associated uveitis, and Kawasaki disease.

The group led by Dr. Alsina centres its research on primary/congenital and secondary immunodeficiencies, focusing on: 1) primary immunodeficiencies of the Toll-IL-1 R pathway (susceptibility to pneumococcus and herpes simplex encephalitis) and of the IL-12 /IFN- γ pathway, which generate susceptibility to intracellular infections (mycobacteria and Leishmania species, among others); 2) primary immunodeficiencies with a predominant component of immune deregulation (inflammation, lymphoproliferative disorders, autoimmunity), with special interest in the study of the cells with a regulatory role (regulatory T and B lymphocytes) and in the use of sirolimus in their treatment; and 3) immunodeficiencies secondary to

the use of monoclonal antibodies, especially anti-TNF- α agents during pregnancy and B-lymphocyte depletion therapies (CART19 and rituximab, among others).

Our goal is to learn about the basis of immune dysfunction in the various pathology groups, and to identify biomarkers and new therapeutic targets.

Members

STAFF RESEARCHER

Rosa Bou i Torrent, Joan Calzada Hernández, Àngela Deyà Martínez, Estibaliz Iglesias Jimenez, Juan Manuel Mosquera Angarita, Mónica Piquer Gibert, Ana Mª Plaza Martín, Ana Pilar Garcia Garcia, Judith Sánchez Manubens

POSTDOC - ASSOCIATE RESEARCHER

Anna Esteve Solé

PHD STUDENT

Yiyi Luo

ASSISTANT RESEARCHER

Violeta Bittermann, Clara Isabel Giménez Roca, Lucia Rodríguez Díez

COLLABORATOR RESEARCHER

Juan Ignacio Arostegui Gorospe, Anna Mensa, Alexandru Vlagea

Selected projects

- ImmunAID_Immunome project consortium for AutoInflammatory Disorders. European Commission. H2020-SC1-PM-03-2017. 779295. PI: Jordi Antón López. 2018 - 2023.
- Estudio del efecto de la exposición intrauterina a fármacos anti-TNF- α en el sistema inmunitario de hijos de madres con enfermedades reumáticas inflamatorias. Instituto de Salud Carlos III (ISCIII). PI: PI18/00223. PI: Laia Alsina Manrique de Lara. 2019 - 2021.
- MDRTBNet_Host-pathogen interactions in MultidrugResistant Tuberculosis Study of the Molecular Epidemiology, Host Immune Responses and GenomeBased Prediction and Early Identification of MDR-TB in High Tuberculosis Burden Settings. Instituto de Salud Carlos III (ISCIII). Acciones complementarias. AC16/00025. PI: Laia Alsina Manrique de Lara. 2017 - 2020.
- Patterson K, Iglesias-Jimenez E, Nasrallah M, González V, Suñol M, Anton-Lopez J, et al. Anti-MOG encephalitis mimicking small vessel CNS vasculitis. *Neurology Neuroimmunol Neuroinflamm.* 2019; 6(2): e538. FI: 7,353(Q1)
- Gattorno M, Hofer M, Federici S, Vanoni F, Bovis F, Aksentijevich I, et al. Ann Rheum Dis. 2019; 78(8): 1025 - 1032. FI: 14,299(Q1)
- Mensa-Vilaró A, García-Morato MB, de la Calle-Martín O, Franco-Jarava C, Martínez-Saavedra MT, González-Granado LI, et al. Unexpected relevant role of gene mosaicism in patients with primary immunodeficiency diseases. *J Allergy Clin Immunol.* 2019; 143(1): 359 - 368. FI: 14,110(Q1)



16

PUBLICATIONS WITH IF



69%

FIRST QUARTILE PUBLICATIONS



31%

FIRST DECILE PUBLICATIONS

INFECTIOUS DISEASES AND MICROBIOME

Carmen Muñoz Almagro, MD, PhD

In 2019 we demonstrated that the activation of HRI (heme-regulated eukaryotic translation initiation factor 2 α kinase) by a new compound which we developed may become a pharmacological target for the treatment of type 2 diabetes and other associated disorders such as non-alcoholic steatohepatitis. These new HRI activators increase FGF21 (fibroblast growth factor 21) levels and may be an alternative to the FGF21 analogues that are being studied for the treatment of non-alcoholic steatohepatitis, with the advantage of being suitable for oral administration, helping to avoid some of the adverse effects of such substances in this way.

Members

STAFF RESEARCHER

Pedro Brotons de los Reyes, Clàudia Fortuny Guasch, Vicky Fumadó, Juan José García García, Cristian Launes Montaña, María Goretti López Ramos, Antoni Noguera Julián

POSTDOC - ASSOCIATE RESEARCHER

Cristina Esteva Afonso, Mariona Fernández de Sevilla Estrach

PHD STUDENT

Sara Bobillo Perez, Ferran Bossacoma Busquets, Desíre Henares Bonilla, Míriam Triviño Rodríguez, Eneritz Velasco, Joan Vinent Genestar

ASSISTANT RESEARCHER

Susana Hernández Bou, Alba Redin Alonso, Silvia Simó Nebot

TECHNICIAN

Carles Cisneros Camps, Amaresh Pérez Argüello, Jesica Saucedo Verdes

COLLABORATOR RESEARCHER

Emilia Sánchez Ruiz

Selected projects

- Sol·licitud de subvencions en l'àmbit de la recerca i la innovació en salut per a la intensificació de professionals amb formació sanitària especialitzada: medicina, farmàcia, química, biologia, bioquímica, psicologia clínica, radiofísica hospitalària i infermeria, corresponents als anys 2019-2021. Departament de Salut - Generalitat de Catalunya. Intensificació facultatius. SLT008/18/00193. PI: Antoni Noguera Julián. 2019 - 2021.
- Contratos Río Hortega. Instituto de Salud Carlos III (ISCIII). CM18/00054. PI: Carmen Muñoz Almagro. 2019 - 2020.
- Serotype and clonal distribution of streptococcus pneumoniae in Catalonia (Spain) before and after introduction of PCV13 vaccine in children. Pfizer, S.L.U. PI: Carmen Muñoz Almagro. 2019 - 2021.
- Microbiota infantil en els primers 2 anys de vida: relació amb el patró de creixement post-natal i el posterior desenvolupament de la síndrome de l'ovari poliquístic. Hospital Sant Joan de Déu - Esplugues HSJD. Convocatòria de Beques de Recerca IRSJD - Carmen de Torres 2018. BR201801. PI: Carmen Muñoz Almagro. 2019 - 2022.

• Rinovirus humano (HRV) en niños menores de 5 años, del resfriado común a la unidad de intensivos: rol de la microbiota. Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD. Convocatòria d'Intensificació de l'Activitat Investigadora de facultatius. BI201901. PI: Cristian Launes Montaña. 2019 - 2020.

• Microbiota de riesgo o resiliente a la infección respiratoria aguda en niños y su utilidad en el diagnóstico diferencial entre neumonía/bronconeumonía bacteriana e infección viral respiratoria. SEIMC. Ayudas Movilidad. PI: Desíre Henares Bonilla. 2019.

Selected publications

- Brotons-de los Reyes P, Nogueras MM, Valls-Lafon A, Larrauri A, Dominguez A, Launes-Montaña C, et al. Impact of Rapid On-demand Molecular Diagnosis of Pediatric Seasonal Influenza on Laboratory Workflow and Testing Costs: A Retrospective Study. Pediatr Infect Dis J. 2019; 38(6): 559 - 563. FI: 2,317(Q2)
- González-Sanz R, Casas-Alba D, Launes-Montaña C, Muñoz-Almagro C, Ruiz-García MM,



PUBLICATIONS WITH IF



FIRST QUARTILE PUBLICATIONS



FIRST DECILE PUBLICATIONS

Alonso M, et al. Molecular epidemiology of an enterovirus A71 outbreak associated with severe neurological disease, Spain, 2016. Euro Surveill. 2019; 24(7): 21 - 29. FI: 7,421(Q1)

• Banquet G, Krizova P, Valentiner-Branth P, Ladhani SN, Nuorti JP, Lepoutre A, et al. Effect of childhood pneumococcal conjugate vaccination on invasive disease in older adults of 10 European countries: implications for adult vaccination. Thorax. 2019; 74(5): 473 - 482. FI: 10,307(Q1)

• Valero-Rello A, Henares-Bonilla D, Acosta L, Jane M, Jordán-García I, Godoy P and Muñoz-Almagro C. Validation and Implementation of a Diagnostic Algorithm for DNA Detection of *Bordetella pertussis*, *B. parapertussis*, and *B. holmesii* in a Pediatric Referral Hospital in Barcelona, Spain. J Clin Microbiol. 2019; 57(1): UNSP e01231. FI: 4,959(Q1)

GUT MICROBIOTA

Laura Baldomà Llavinés, PhD

Gut microbiota secreted vesicles (MVs) mediate communication with the host:

- MVs are used by gut microbiota to steadily prime the innate immune system, activating dendritic cells (DCs) in a strain-specific manner. MVs from probiotic and commensal *E. coli* strains drive complex Th responses that include a combination of Th2, Th22 and Th17. The main differences detected were in the ability to promote Th1 (protective immunity towards intracellular pathogens) and Treg (immunological tolerance) responses.

- MVs from probiotic and *E. coli* strains (phylogenetic group B) protect the barrier integrity against EPEC infection by activating compensatory mechanisms at various levels targeted to: (i) mRNA expression of the TJ proteins occludin and claudin-14, (ii) redistribution of ZO-1 and occludin from the cytoplasm to TJ structures, and (iii) maintenance of the F-actin cytoskeleton structure.

Members

STAFF RESEARCHER

Josefa Badia Palacin, Rosa Giménez Claudio

POSTDOC - ASSOCIATE RESEARCHER

Rodrigo Vera

PHD STUDENT

Natalia Diaz-Garrido

Selected projects

- Vesículas de membrana externa de microbiota y probióticos Gram-negativos como agentes modulares de la barrera intestinal y la respuesta inmunitaria. Ministerio de Economía y Competitividad. Convocatòria d'ajuts del Programa Estatal d'Investigació, Desenvolupament i Innovació Orientada als reptes de la Societat. Modalitat Projectes I+D+I. AGL2016-79113-R. PI: Laura Baldomà Llavinés. 2016 - 2020.

Selected publications

- Gonzalez-Pizarro R, Parrotta G, Vera R, Sánchez-López E, Galindo R, Kjeldsen F, et al. Ocular penetration of fluorometholone-loaded PEG-PLGA nanoparticles functionalized with cell-penetrating peptides. *Nanomedicine (Lond)*. 2019; 14(23): 3089 - 3104. FI: 4,717(Q1)
- Alvarez CS, Gimenez R, Canas MA, Vera R, Díaz-Garrido N, Badia J and Baldoma L. Extracellular vesicles and soluble factors secreted by *Escherichia coli* Nissle 1917 and ECOR63 protect against enteropathogenic *E. coli*-induced intestinal epithelial barrier dysfunction. *BMC Microbiol*. 2019; 19(1): 166 - 166. FI: 3,287(Q2)
- Diaz-Garrido N, Fabrega MJ, Vera R, Gimenez R, Badia J and Baldoma L. Membrane vesicles from the probiotic Nissle 1917 and gut resident *Escherichia coli* strains distinctly modulate human dendritic cells and subsequent T cell responses. *J Funct Foods*. 2019; 61: 103495. FI: 3,197(Q1)



3

PUBLICATIONS
WITH IF



67%

FIRST QUARTILE
PUBLICATIONS

ENVIRONMENT AND COMPLICATIONS IN PREGNANCY

Maria Dolores Gómez Roig, MD, PhD

An intervention study to reduce alcohol consumption among pregnant women (EMOTIVE) was started in 2019. This project arose from the observation, made in one of our group's previous studies, that the serious problem of alcohol consumption during pregnancy is revealed by the presence of an alcohol metabolite in the hair. At the time of this writing, the recruitment phase of the study is being completed, with over 400 participants.

We also took part in the BiSC (Barcelona Life Study Cohort) project, which is aimed to provide an understanding of the effect of air pollution on placental function, foetal growth, and the cardiovascular and cerebral development of the foetus. At present our group is working on the recruitment phase and on the performance of echocardiograms and neurosonograms on 600 volunteers who live in the metropolitan area of Barcelona.

Likewise, our group is beginning a study which will involve the performance of a follow-up of the development of 100 babies (50 controls and 50 babies with growth restriction) from the 32nd week of pregnancy to the first year of life. The goal is to validate a cerebral response of the auditory

system called the "frequency-following response", which may be registered from birth and which provides information on the development and maturation of the auditory system, and on its relation to language development. For this purpose, we will perform an electroencephalogram on each baby on three occasions (0 months, 6 months and 12 months of life), a neurosonogram on each mother in the 32nd week of pregnancy, and a magnetic resonance on each baby at 0 and 6 months of life.

Lastly, our group will be participating in the ATHLETE (Advancing Tools for Human Early Lifecourse Exposome Research and Translation) study. The goal of this project is to develop advanced tools for the study of the exposome. A study will be made of a prospective exposure cohort, which will be used to quantify systematically, at both community and individual level, the effects of environmental risk factors on mental, cardiometabolic and respiratory health, as well as the health of the associated biological pathways, in the first two decades of life. In this way, acceptable and feasible exposome interventions may be implemented and the resulting evidence may be translated into prevention strategies and recommendations.

Members

POSTDOC - ASSOCIATE RESEARCHER

Edurne Mazarico Gallego, Miriam Pérez Cruz

PHD STUDENT

Marc Cahuana, Laura Almeida Toledano, Paz Ahumada, Mariona Serra, Diana Lip

COLLABORATOR RESEARCHER

Marta Muniesa, Giulia Casu

TECHNICIAN

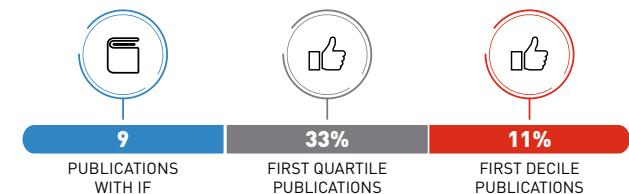
Erica Muñoz Sanz

Selected projects

- Traffic-related air pollution and birth weight: the roles of noise, placental function, green space, diet, physical activity, and socioeconomic status (FRONTIER). Health Effects Institute (HEI). RFA 17-1: Assessing adverse health effects of exposure to traffic-related air pollution, noise, and their interactions with socio-economic status. CR-83590201. PI: Maria Dolores Gómez Roig (PARTNER). 2018 - 2022.
- Efectividad de la entrevista motivacional repetida durante el embarazo en el abandono del consumo de alcohol. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación. PI17/00105. PI: Maria Dolores Gómez Roig. 2018 - 2020.

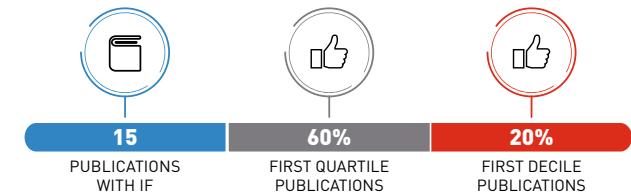
Selected publications

- Ribas-Prats T, Almeida-Toledano L, Costa-Faidella J, Plana M, Corral MJ, Gómez-Roig MD and Escera C. The frequency-following response (FFR) to speech stimuli: A normative dataset in healthy newborns. *Hear Res.* 2019; 371: 28 - 39. FI: 2,952(Q1).
- Mazarico-Gallego E, Llurba E, Cabero L, Sanchez O, Valls-Lafon A, Martín-Ancel A, et al. Associations between neural injury markers of intrauterine growth-restricted infants and neurodevelopment at 2 years of age. *J Matern Fetal Neonatal Med.* 2019; 32(19): 3197 - 3203. FI: 1,569(Q3)
- Fernández Arias M, Mazarico-Gallego E, Gonzalez A, Muniesa M, Molinet C, Almeida-Toledano L and Gómez-Roig MD. Genetic risk assessment of thrombophilia in patients with adverse obstetric outcomes. *PLoS One.* 2019; 14(2): e0211114. FI: 2,776(Q2)



CARDIOVASCULAR DISEASES IN DEVELOPMENT

Joan Sánchez de Toledo, MD, PhD
Georgia Sarquella Brugada, MD, PhD



Members

STAFF RESEARCHER

Esther Carro Fernandez, Sergio
César Diaz, Isaac Moll Adrian

TECHNICIAN

Miriam López Abad

Selected projects

- Identification of predictors of cardiac arrhythmias and sudden death in pediatric patients affected with laminopathies. Medtronic Iberica S.A. PI: Georgia Sarquella Brugada. 2019 - 2020.
- ECG neonatal sistemático para la detección precoz de enfermedades cardíacas relacionadas con la muerte súbita del lactante. Sociedad Española de Cardiología. PI: Georgia Sarquella Brugada. 2019 - 2019.
- Utilidad de la neuromonitorización integrada como predictor del neurodesarrollo en pacientes sometidos a cirugía cardíaca en edad pediátrica: de la clínica al modelo animal pediátrico. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación. PI17/02198. PI: Joan Sanchez de Toledo. 2018 - 2020.

Selected publications

- Campuzano O, Fernandez-Falgueras A, Lemus X, Sarquella-Brugada G, César Diaz, Sergio, et al. Short QT Syndrome: A Comprehensive Genetic Interpretation and Clinical Translation of Rare Variants. *J Clin Med.* 2019; 8(7). FI: 5,688(Q1)
- Conte G, Belhassen B, Lambiase P, Ciccone G, de Asmundis C, Arbelo E, et al. Out-of-hospital cardiac arrest due to idiopathic ventricular fibrillation in patients with normal electrocardiograms: results from a multicentre long-term registry. *Europace.* 2019; 21(11): 1670 - 1677. FI: 5,047(Q1)
- Michowitz Y, Milman A, Andorin A, Sarquella-Brugada G, Gonzalez Corcic MC, Gourraud JB, et al. Characterization and Management of Arrhythmic Events in Young Patients With Brugada Syndrome. *J Am Coll Cardiol.* 2019; 73(14): 1756 - 1765. FI: 18,639(Q1)
- Milman A, Andorin A, Postema PG, Gourraud JB, Sacher F, Mabo P, et al. Ethnic differences in patients with Brugada syndrome and arrhythmic events: New insights from Survey on Arrhythmic Events in Brugada Syndrome. *Heart Rhythm.* 2019; 16(10): 1468 - 1474. FI: 5,225(Q1)

IMMUNE AND RESPIRATORY DYSFUNCTION IN THE CRITICAL CHILD

Francisco José Cambra Lasaosa, MD, PhD

During 2019 the researchers participated in 3 clinical trials of the industry as principal investigators and in 2 as collaborators. We have also written 7 book chapters, as well as the drafting of protocols of the Spanish Society of Pediatric Intensive Care (SECIP). For the scientific dissemination and dissemination, we participated in the Science Festival, organized by Barcelona City Council, at the end of October. We are also members of scientific societies: SECIP and ESPNIC.

This 2019 we have started our participation in the 2-year long-term international multicenter study Long Term Ventilation Kids in the context of the collaboration of the European Network ResPNIC and the PALISI network (USA-Canada). And also in the organization of the 4th International Conference on Pediatric and Neonatal Non-Invasive Ventilation.

Members

STAFF RESEARCHER

Mónica Balaguer Gargallo, Elisabeth Esteban Torne, Iolanda Jordán García, Martí Pons Òdena

ASSISTANT RESEARCHER

Carme Alejandre Galobardes, Sergio Benito Fernández, Sara Bobillo Pérez, Patricia Corniero Alonso, Aida Felipe Villalobos, Elena Fresán Ruiz, Mónica Girona Alarcón, Carmina Guitart Pardellans, Lluisa Hernandez Platero, Nuria Millán García del Real, Susana Segura Matute, Anna Sole Ribalta, David Vila Pérez

COLLABORATOR RESEARCHER

Montserrat Esquerda Areste

Selected projects

- Contratos predoctorales de formación en investigación en salud. Beneficiari: Sara Bobillo. Instituto de Salud Carlos III (ISCIII). PFIS. FI17/00253. PI: Iolanda Jordán García. 2018 - 2022.
- Valoración del efecto neuroprotector de la dexmedetomidina en el modelo animal pediatrico de circulación extracorporea y parada circulatoria. Sociedad y Fundación Española de Cuidados Intensivos Pediátricos (SECIP). BECA FRANCISCO RUZA. PI: Sergio Benito Fernández. 2018 - 2020.
- Análisis de un algoritmo diagnóstico de neumonía grave en pacientes críticos pediátricos, mediante ecografía pulmonar y procalcitonina, como plan de mejora de la calidad asistencial. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación en salud. PI16/01040. PI: Iolanda Jordán García. 2017 - 2020.

Selected publications

- Bobillo-Perez S, Jordán-García I, Corniero-Alonso P, Balaguer-Gargallo M, Sole-Ribalta A, Esteban ME, et al. Prognostic value of biomarkers after cardiopulmonary bypass in pediatrics: The prospective PANCAP study. *PLoS One*. 2019; 14(6): e0215690. FI: 2,776(Q2)
- Flores-González JC, Valladares CM, Yun Castilla C, Mayordomo-Colunga J, Quesada SP, Martín Delgado CM, et al. Association of Fluid Overload With Clinical Outcomes in Critically Ill Children With Bronchiolitis: Bronquiolitis en la Unidad de Cuidados Intensivos Pediátricos (BRUCIP) Study. *Pediatr Crit Care Med*. 2019; 20(3): 130 - 136. FI: 2,798(Q1)
- Pons-Odena M, Medina A, Modesto-Alapont V. Treachery on the Rocks in the Pediatric Intensive Care Unit. *JAMA Pediatr*. 2019; 173(7): 699 - 699. FI: 12,004(Q1)
- Valero-Rello A, Henares-Bonilla D, Acosta L, Jane M, Jordán-García I, Godoy P, Muñoz-Almagro C. Validation and Implementation of a Diagnostic Algorithm for DNA Detection of *Bordetella pertussis*, *B. parapertussis*, and *B-holmesii* in a Pediatric Referral Hospital in



13

PUBLICATIONS WITH IF



38%

FIRST QUARTILE PUBLICATIONS



7%

FIRST DECILE PUBLICATIONS

Barcelona, Spain. *J Clin Microbiol*. 2019; 57(1): UNSP e01231. FI: 4,959(Q1)

Networks

- 2017. Red de Investigación Translacional en Infectología Pediátrica (RITIP). Translational Research Network in Pediatric Infectious Diseases. IP: Pilar Calvo.



SJD

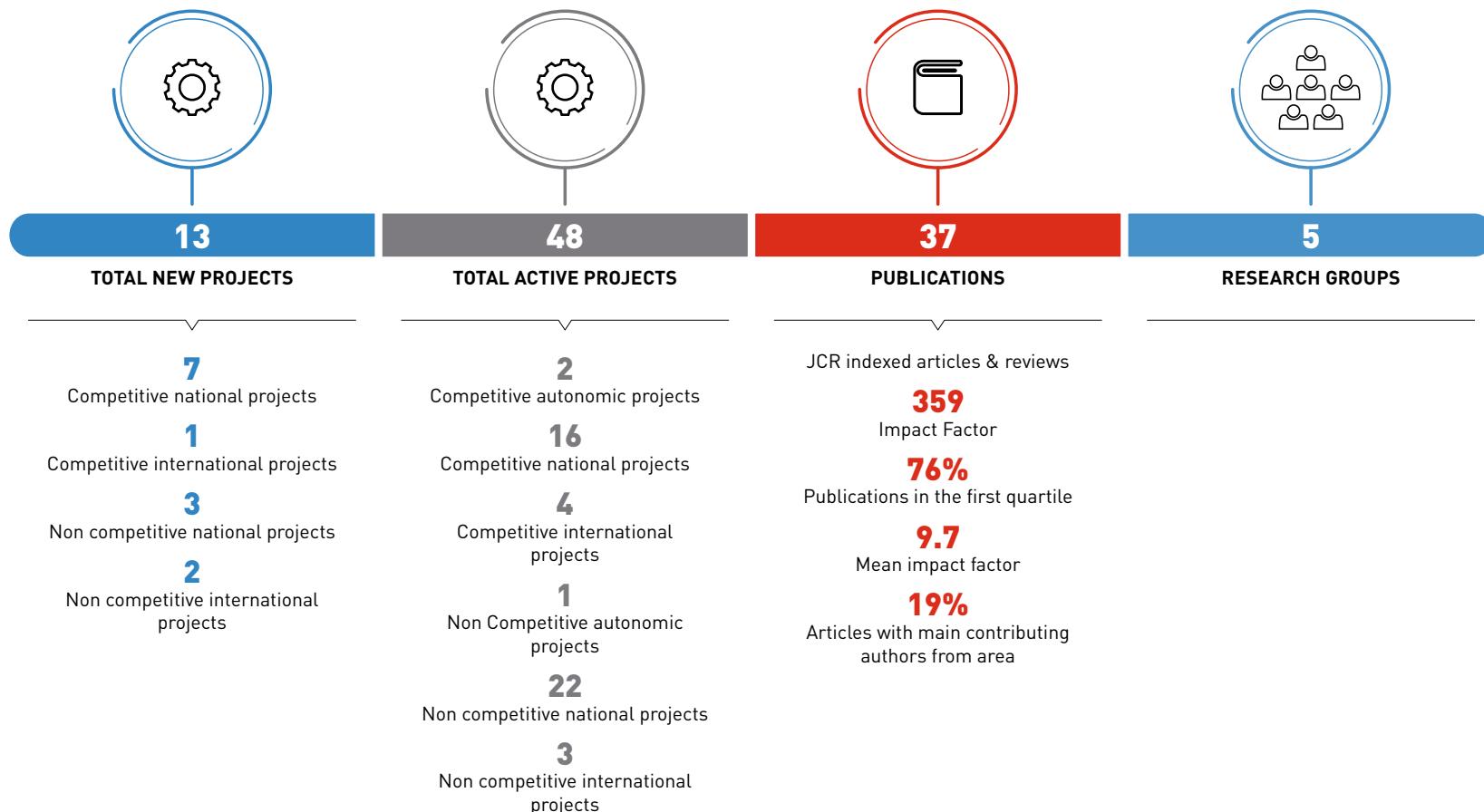
Sant Joan de Déu
Institut de Recerca



9

PAEDIATRIC CANCER

Translational genomics
Sarcomas and histiocytosis
Therapy development in pediatric oncology
Paediatric leukaemia and haematopoiesis
Molecular pharmacology and experimental therapies



TRANSLATIONAL GENOMICS

Cinzia Emilia Lavarino, PhD

The Translational Genomic Group has begun to develop a digital platform for the molecular classification of paediatric tumours. This digital platform will consist of a controlled-access web service that will allow the rapid and precise classification of paediatric tumours on the basis of an analysis of methylation values of epigenetic biomarkers' panels uploaded by users. The primary goal is to provide tools (classifiers and digital platform) allowing the majority of the centres to classify patients, to assign them to the respective clinical risk groups, and to quickly individualise candidate patients for targeted therapies.

Members

STAFF RESEARCHER

Héctor Salvador Hernández

POSTDOC - ASSOCIATE RESEARCHER

Soledad Gomez Gonzalez, Marta García López

PHD STUDENT

Laura Garcia Gerique, Alícia Garrido Garcia

TECHNICIAN

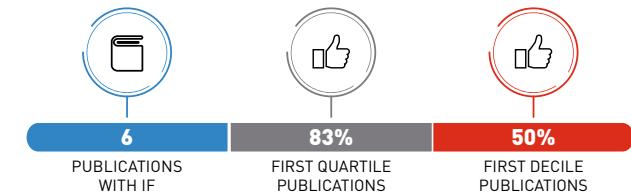
Isadora Lemos

Selected projects

- Método para la clasificación en subgrupos moleculares de pacientes con Medulloblastoma. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación. PI17/00353. PI: Cinzia Emilia Lavarino. 2018 - 2020.
- La epigenética en la patogénesis del neuroblastoma: nuevas perspectivas moleculares para el desarrollo de estrategias terapéuticas. Instituto de Salud Carlos III (ISCIII). FIS. PI14/00038. PI: Cinzia Emilia Lavarino. 2015 - 2019.

Selected publications

- Campbell K, Rossi F, Adams J, Pitsidianaki I, Barriga FM, García-Gerique L, et al. Collective cell migration and metastases induced by an epithelial-to-mesenchymal transition in Drosophila intestinal tumors. *Nat Commun.* 2019; 10(1): 2311 - 2311. FI: 11,878(Q1)
- D'Angelo F, Ceccarelli M, Tala Garofano L, Zhang J, Frattini V, Caruso FP, et al. The molecular landscape of glioma in patients with Neurofibromatosis 1. *Nat Med.* 2019; 25(1): 176 - 187. FI: 30,641(Q1)
- Garcia-López M, Rodriguez-Hernandez CJ, Mateo-Lozano S, Pérez-Jaume S, Gonçalves-Alves E, Lavarino C, et al. Parathyroid hormone-like hormone plays a dual role in neuroblastoma depending on PTH1R expression. *MOL ONCOL.* 2019; 13(9): 1959 - 1975. FI: 5,962(Q1)
- Pascual-Pastó G, Bazan-Peregrino M, Gene-Olaciregui N, Restrepo-Perdomo CA, Mato-Berciano A, Ottaviani D, et al. Therapeutic targeting of the RB1 pathway in retinoblastoma with the oncolytic adenovirus VCN-01. *SCI TRANSL MED.* 2019; 11(476). FI: 17,200(Q1)
- Perez-Somarriba M, Andión M, López-Pino MA, Lavarino C, Madero L and Lassaletta A. Old



drugs still work! Oral etoposide in a relapsed medulloblastoma. *Childs Nerv Syst.* 2019; 35(5): 865 - 869. FI: 1,327(Q3)

SARCOMAS AND HISTIOCYTOSIS

Jaume Mora Graupera, MD, PhD

As a result of the work of all the researchers, of the groups of families who give us their unconditional support, and of the translational nature of the group, all three of the projects for which applications were submitted to the year 2018 call of the telethon on cancer organised by the Catalan TV (La Marató) were awarded grants at the end of 2019. This is the first time that paediatric oncology projects have obtained financing at this event.

Lastly, the bid submitted by our centre won Barcelona's designation as the venue of the international congress of the International Society of Paediatric Oncology (SIOP) for 2022. This meeting has never been held before in Spain and our city's designation bears witness to the international recognition which our centre has achieved in the field of paediatric oncology.

Members

STAFF RESEARCHER

Veronica Celis Passini, Moira Garraus Oneca, Alicia Castañeda Heredia, Maite Gorostegui Obanos, Lucas Krauel Gimenez-Salinas, Maria Inmaculada Hernandez Muñoz

POSTDOC - ASSOCIATE RESEARCHER

Anastasia Herrero, Maria Sanchez Jimenez, Silvia Mateo Lozano, Carlos Javier Rodriguez Hernandez, Sara Sánchez Molina

PHD STUDENT

Elisabet Figuerola Bou

ASSISTANT RESEARCHER

Irene Cuervas Oliveras, Alejandro Manzanares Quintela, Jara Martin Serrano, Sara Pérez Jaume, Estela Prada Varela

TECHNICIAN

Soraya Morales Moreno, Óscar Muñoz Aznar

Selected projects

- Ipatasertib in Rhabdomyosarcoma. F. Hoffmann- La Roche Ltd. PI: Jaume Mora Graupera. 2019 - 2020.
- Modelo de terapia de precisión: tratamientos personalizados de rescate para cada paciente (en base a las anomalías genéticas del tumor y el test de fármacos en modelo animal). Fundación Inocente Inocente. Proyectos en cáncer infantil. PI: Jaume Mora Graupera. 2018 - 2019.

Selected publications

- Durham BH, Lopez Rodrigo E, Picarsic J, Abramson D, Rotemberg V, De Munck S, et al. Activating mutations in CSF1R and additional receptor tyrosine kinases in histiocytic neoplasms. *Nat Med.* 2019; 25(12): 1839 - 1842. FI: 30,641(Q1)
- Janin M, Ortiz-Barahona V, de Moura MC, Martínez-Cardús A, Llinàs-Arias P, Soler Vila M, et al. Epigenetic loss of RNA-methyltransferase NSUN5 in glioma targets ribosomes to drive a stress adaptive translational program. *ACTA NEUROPATHOL.* 2019; 138(6): 1053 - 1074. FI: 18,174(Q1)
- Pascual-Pastó G, Bazan-Peregrino M, Gene-Olaciregui N, Restrepo-Perdomo CA, Mato-Berciano A, Ottaviani D, et al. Therapeutic targeting of the RB1 pathway in retinoblastoma with the oncolytic adenovirus VCN-01. *Sci Transl Med.* 2019; 11(476). FI: 17,200(Q1)



9
PUBLICATIONS
WITH IF



100%
FIRST QUARTILE
PUBLICATIONS



66%
FIRST DECILE
PUBLICATIONS

THERAPY DEVELOPMENT IN PEDIATRIC ONCOLOGY

Angel Montero Carcaboso, PhD

Our group's output for 2019 has included the publication entitled "Therapeutic targeting of the RB1 pathway in retinoblastoma with the oncolytic adenovirus VCN-01" (<http://stm.sciencemag.org/content/11/476/eaat9321>), published in the journal *Science Translational Medicine* on 23 January 2019. This study was commented on in the scientific journals *Science* and *Nature*.

Members

STAFF RESEARCHER

Guillermo Chantada, Ofelia Cruz Martínez, Andrés Morales La Madrid

POSTDOC - ASSOCIATE RESEARCHER

Sonia Paco Mercader

PHD STUDENT

Helena Castillo Ecija, María Cuadrado Vilanova, Nagore Gene Olaciregui

ASSISTANT RESEARCHER

Leire Balaguer Lluna, Mercè Baulenas Farrés, Víctor Burgueño Sandoval, Francisco Javier Vicario Torre

TECHNICIAN

Ana Jiménez Cabaco, Mònica Vilà Ubach

Selected projects

- Miguel Servet II. Instituto de Salud Carlos III (ISCIII). Miguel Servet II. MSII18/00009. PI: Angel Montero Carcaboso. 2019 - 2022.
- Angel Montero Carcaboso renovó su contrato con el programa Miguel Servet del Instituto de Salud Carlos III obteniendo la primera posición del ranking de su promoción Miguel Servet II de la convocatoria 2018.
- Cure4RB. Ministerio de Economía Y Competitividad (MINECO). Retos colaboración 2015. RTC-2015-4319-1. PI: Angel Montero Carcaboso. 2015 - 2019.
- Proyecto finalizado con éxito en 2019, ha permitido llevar a un ensayo clínico fase I la terapia avanzada con adenovirus VCN-01 para el tratamiento del retinoblastoma en pacientes resistentes a los tratamientos.
- Inmunoterapia del glioma difuso de protuberancia (DIPG) Instituto de Salud Carlos III (ISCIII). FIS. PI15/01161. PI: Angel Montero Carcaboso. 2016 - 2019.
- Proyecto finalizado con éxito en 2019, ha permitido llevar a un ensayo clínico fase I la terapia avanzada con vacunas de células dendríticas autólogas cargadas con lisados heterólogos de cultivos celulares de DIPG.

Selected publications

- Pascual-Pastó G, Bazan-Peregrino M, Gene-Olaciregui N, Restrepo-Perdomo CA, Mato-Berciano A, Ottaviani D, et al. Therapeutic targeting of the RB1 pathway in retinoblastoma with the oncolytic adenovirus VCN-01. SCI TRANSL MED. 2019; 11(476). FI: 17,200(Q1). Selected as cover article and featured in Science and in Nature.
- Zaritski A, Castillo-Ecija H, Kumarasamy M, Peled E, Sverdlov Arzi R, Montero-Carcaboso A and Sosnik A. Selective Accumulation of Galactomannan Amphiphilic Nanomaterials in Pediatric Solid Tumor Xenografts Correlates with GLUT1 Gene Expression. ACS Appl Mater Interfaces. 2019; 11(42): 38483 - 38496. FI: 8,456(Q1)
- Carvalho D, Taylor KR, Gene-Olaciregui N, Molinari V, Clarke M, Mackay A, et al. ALK2 inhibitors display beneficial effects in preclinical models of ACVR1 mutant diffuse intrinsic pontine glioma. Commun Biol. 2019; 2(1): 156 - 156. FI: (Q)
- Munier FL, Beck-Popovic M, Chantada G, Cobrinik D, Kivelä TT, Lohmann D, et al. Conservative management of retinoblastoma: Challenging orthodoxy without compromising the state of metastatic grace. "Alive, with good



15

PUBLICATIONS
WITH IF



73%

FIRST QUARTILE
PUBLICATIONS



66%

FIRST DECILE
PUBLICATIONS

PAEDIATRIC LEUKAEMIA AND HAEMATOPOIESIS

Mireia Camós Guijosa, MD, PhD

Dr. Mireia Camós coordinates the project "CLOSER. Childhood Leukemia: Overcoming distance between South America and Europe", financed by the European Union within the Horizon 2020 programme (Grant Agreement 825749). CLOSER is a multidisciplinary collaborative international project that seeks to harmonise the handling of children with leukaemia and to reduce the inequalities in survival between Latin America and Europe. The project will be carried out between 2019 and 2023.

Within the framework of the implementation of NGS technology at our centre, in 2019 we completed a national collaborative project coordinated by Sant Joan de Déu Barcelon Children's Hospital. The project was awarded an Unoentrecienmil Foundation grant and has dealt with the usefulness of various NGS approaches with directed panels in paediatric leukaemia. The results of the study have been presented in a paper which has been submitted to a scientific journal for its publication.

Members

STAFF RESEARCHER

Anna Alonso Saladrígues, Isabel Badell Serra, Rubén Buerueco Moreno, Albert Català Temprano, Izaskun Elorza Alvarez, Susanna Gassiot Riu, Julia Marsal Ricoma, Montserrat Mesegue Meda, Susana Rives Solà, Anna Ruiz Llobet, Montserrat Torrebadell Burriel, María Trabazo del Castillo

POSTDOC - ASSOCIATE RESEARCHER

Nerea Vega García

PHD STUDENT

Elena Esperanza Cebollada, Sandra Pont Martí

ASSISTANT RESEARCHER

Clara Vicente Garcés

TECHNICIAN

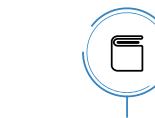
Marina Camino Estella Aguado, Soraya Morales Moreno, Celia Portillo Bog, Mercé Richarte Franqués, Lidia Ruiz Bocanegra, Warda Suleman

Selected projects

- CLOSER: Childhood Leukemia: Overcoming distance between South America and Europe Regions. European Commission. H2020-SC1-BHC-18. 825749. PI: Mireia Camós Guijosa. 2019 - 2023.
- Hacia la personalización de la profilaxis de la trombosis venosa profunda en pacientes pediátricos afectos de leucemia linfoblástica aguda: uso de test de generación de trombina. Instituto de Salud Carlos III (ISCIII). Proyectos de investigación. PI17/00356. PI: Rubén Buerueco Moreno. 2018 - 2020.
- Ingeniería fotónica para el diagnóstico, seguimiento y tratamiento de enfermedades oculares y sanguíneas. Ministerio de Economía, Industria y Competitividad. Proyectos de investigación. DPI2017-89414-R. PI Global: Vilaseca Ricart, Meritxell. PI-SJD: Gassiot Riu, Susanna. 2018 - 2020

Selected publications

- Laetsch TW, Myers GD, Baruchel A, Dietz AC, Pulsipher MA, Bittencourt H, et al. Patient-reported quality of life after tisagenerleucel infusion in children and young adults with relapsed or refractory B-cell acute lymphoblastic leukemia: a global, single-arm, phase 2 trial. Lancet Oncol. 2019; 20(12): 1710 - 1718. FI: 35,386(Q1)
- Martínez-Monseny T, Bolasell-Girgas M, Callejón L, Cuadras-Palleja D, Freniche-Rodríguez V, Itzep DC, et al. AZATAK: Acetazolamide safety and efficacy in cerebellar syndrome in PMM2 congenital disorder of glycosylation (PMM2-CDG). Ann Neurol. 2019; 85(5): 740 - 751. FI: 9,496(Q1)
- Río P, Navarro S, Wang W, Sánchez-Domínguez R, Pujol RM, Segovia JC, et al. Successful engraftment of gene-corrected hematopoietic stem cells in non-conditioned patients with Fanconi anemia. Nat Med. 2019; 25(9): 1396 - 1401. FI: 30,641(Q1)
- Sánchez-Martínez D, Baroni ML, Gutierrez-Agüera F, Roca-Ho H, Blanch-Lombarte O, González-García S, et al. Fratricide-resistant CD1a-specific CAR T cells for the treatment of cortical T-cell acute



12

PUBLICATIONS
WITH IF



66%

FIRST QUARTILE
PUBLICATIONS



58%

FIRST DECILE
PUBLICATIONS

lymphoblastic leukemia. Blood. 2019; 133(21): 2291 - 2304. FI: 16,601(Q1)

Networks

- Innovative Therapies for Children with Cancer
- Grup clinic vinculat CIBER malalties rares (CIBERER), Institut de Salud Carlos III

MOLECULAR PHARMACOLOGY AND EXPERIMENTAL THERAPIES

Marçal Pastor-Anglada, PhD

In the course of this year, our group made two significant contributions in the field of biomedical research. From a more clinical standpoint, we identified the first case of dysfunction of a gene of the SLC28 family, encoding the pyrimidine nucleoside transporter hCNT1, which is responsible for an error of metabolism which, among others, is associated with pyrimidinuria. We also identified a new regulatory mechanism of the hENT1 and hENT2 proteins, which are responsible for the nucleoside recovery paths that are essential in both physiological and pathological situations of cell proliferation.

Members

STAFF RESEARCHER

Sandra Perez-Torras

POSTDOC - ASSOCIATE RESEARCHER

Nerea Urtasun Plans

PHD STUDENT

Clara Boces Pascuals, Aida Mata Ventosa, Eduard Mas Marín, Catalina Perelló Reus

Selected projects

- Proteínas transportadoras de nucleósidos (NT), metabolismo de nucleótidos y cáncer. Ministerio de Ciencia, Innovación y Universidades. Convocatoria d'ajuts del Programa Estatal d'Investigació, Desenvolupament i Innovació Orientada als reptes de la Societat. Modalitat Reptes. RTI2018-094655-B-I00. PI: Marçal Pastor-Anglada. 2019 - 2021.
- Contractes de recerca/serveis. Modis Therapeutics, Inc. 310320. PI: Marçal Pastor-Anglada. 2019.
- Contracte de recerca/serveis. Cytes Biotechnologies, S.L. 310131. PI: Marçal Pastor-Anglada. 2018 - 2020.
- Farmacología Molecular i Teràpies Experimentals (MPET). Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Convocatoria d'ajuts per donar suport a les activitats dels grups de recerca (SGR). PI: Marçal Pastor-Anglada. 2018 - 2020.



3
PUBLICATIONS
WITH IF



67%
FIRST QUARTILE
PUBLICATIONS



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PUBLICATIONS

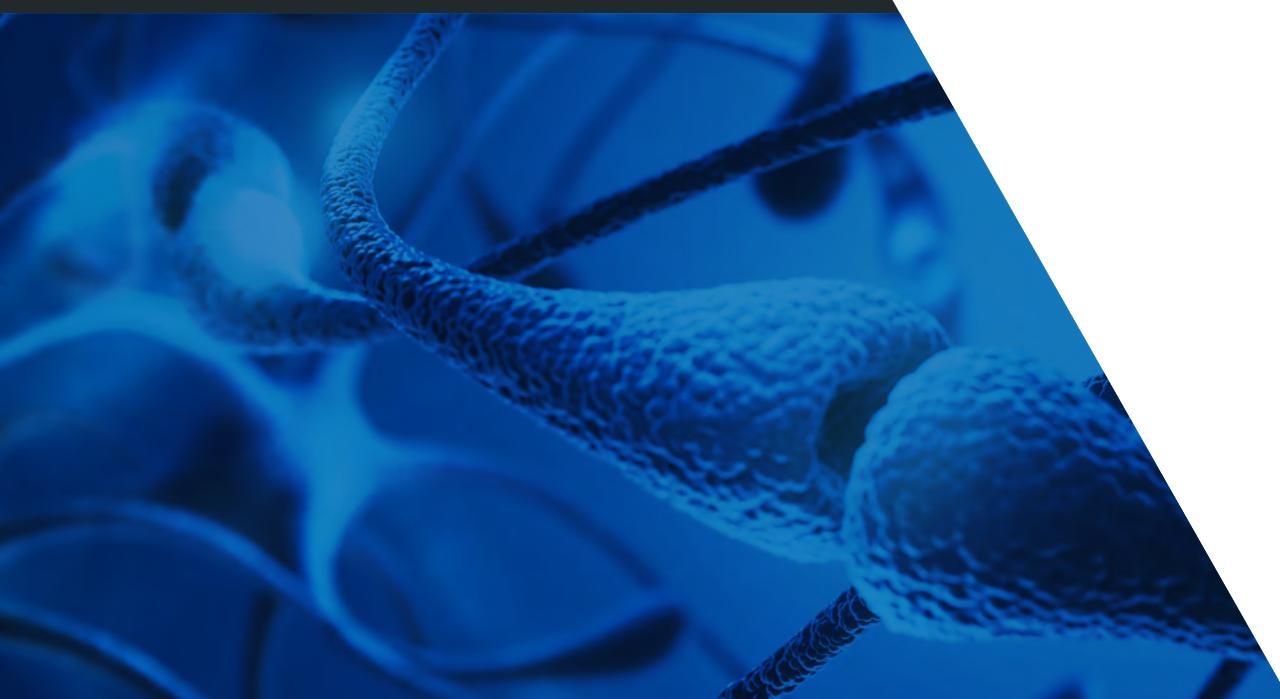
Networks

- CIBER EHD 2006



SJD

Sant Joan de Déu
Institut de Recerca



10

HEALTH TECHNOLOGIES AND INNOVATION

Medical technologies: Bioinformatics and biomedical signals

Medical technologies: Biomaterials and tissue engineering

Medical technologies: Analysis for rehabilitation

Medical technologies: Instrumentation and eHealth

Medical technologies: Graphic computing: serious games and gamification

Medical technologies: Robotics and vision

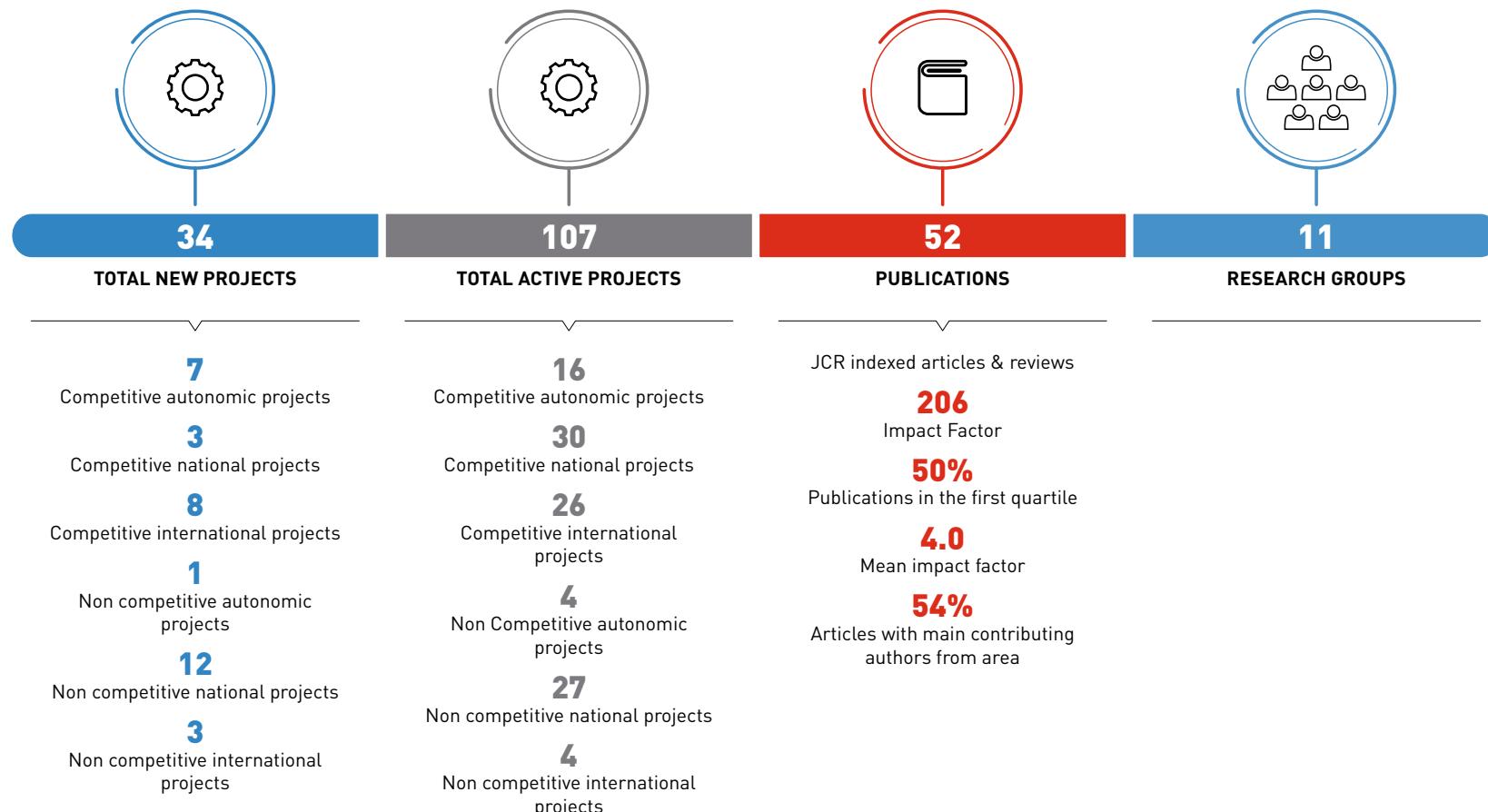
Medical technologies: Medical imaging

Medical technologies: Biomechanical

Patients engagement in research

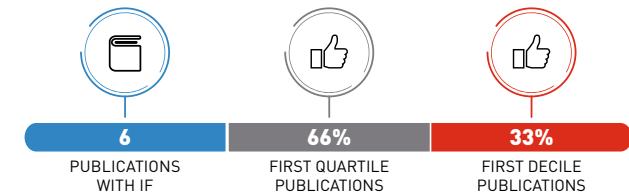
Innovation in health technologies

Diagnostic and therapeutic image



MEDICAL TECHNOLOGIES: BIOINFORMATICS AND BIOMEDICAL SIGNALS

Alexandre Perera Lluna, PhD



Members

STAFF RESEARCHER

Maria Barranco Altirriba, Pol Canal Noguer, Jesús Escrivá Muñoz, Jordi Fonollosa Magrinyà, Jon Garrido Aguirre, Giovana Elizabeth Gavidia Bovadilla, Pol Gil Figuerola, Pedro Gomis Román, Samir Kanaan Izquierdo, Oleksii Leonovich, Joshua Llano Viles, Ángela López del Río, Enrico Manzini, Imanol Morata Martínez, Joana Palés Huix, Flavio Palmieri, Pol Solà de los Santos, Alexander Vallmitjana Lees, Helena Vallverdú Cartié, Maria Montserrat Vallverdú Ferrer

PHD STUDENT

Xavier Marimon Serra, Sergi Picart Armada

TECHNICIAN

Maria Maqueda

Selected projects

- Diacare: Desarrollo de un sistema de clusterización/segmentación de pacientes diabéticos tipo 2, según su adherencia al plan terapéutico. Pulso Ediciones SL. PI: Alexandre Perera Lluna. 2019 - 2020.
- EMPOC: Segmentación y predicción de episodios con pacientes de EMPOC. Pulso Ediciones SL. PI: Alexandre Perera Lluna. 2019 - 2020.
- AudioTec: Desarrollar un sistema de audiometría verbal con la capacidad de disponer de reconocimiento de voz automático. Devimetrics. PI: Alexandre Perera Lluna. 2019 - 2020.
- RCS: Impacte de la formació en l'Acadèmia de Ciències Mèdiques en termes d'indicadors de responsabilitat social. Acadèmia de les Ciències Mèdiques. PI: Alexandre Perera Lluna. 2019 - 2021.
- RCS: Anàlisi estadístic, bigdata i data mining. Universal Diagnostics SL. PI: Alexandre Perera Lluna. 2019 - 2019.
- Sistema basat en sensors de gas pel monitoratge i seguretat dels ancians a casa. AGAUR. PI: Jordi Fonollosa. 2019 - 2020.

Selected publications

- Kanaan-Izquierdo S, Ziyatdinov A, Burgueño MA and Perera A. Multiview: a software package for multiview pattern recognition methods. Bioinformatics. 2019; 35(16): 2877 - 2879. FI: 4,531(Q1)
- Lopez-Del Rio A, Nonell-Canals A, Vidal D, Perera A. Evaluation of Cross-Validation Strategies in Sequence-Based Binding Prediction Using Deep Learning. J Chem Inf Model. 2019; 59(4): 1645 - 1657. FI: 3,966(Q1)
- Lupón J, Gavidia G, Ferrer Vidal-Barraquer E, de Antonio M, Perera A, López-Ayerbe J, et al. Heart Failure With Preserved Ejection Fraction Infrequently Evolves Toward a Reduced Phenotype in Long-Term Survivors. Circ Heart Fail. 2019; 12(3): e005652. FI: 6,526(Q1)
- Picart S, Barrett SJ, Willé DR, Perera A, Gutteridge A, Dessailly BH. Benchmarking network propagation methods for disease gene identification. Plos Comput Biol. 2019; 15(9): e1007276. FI: 3,955(Q1)

MEDICAL TECHNOLOGIES: BIOMATERIALS AND TISSUE ENGINEERING

Maria Pau Ginebra Molins, PhD

The Biomaterials, Biomechanics and Textile Engineering research group (BBT) obtained 6 European, national and regional projects with public financing in 2019. During the year, our group's members published a total of 27 papers in high-impact indexed journals, and they presented 21 papers at international conferences, as well as 18 guest lectures. During this period, a number of agreements were signed with different organisations, notably including the UPC-Klockner Chair and the UPC-AMES Chair.

Members

STAFF RESEARCHER

Cristina Canal Barnils, Montserrat Español Pons, José Manuel García Torres, Jose María Manero Planella, Carles Mas Moruno, Mònica Ortiz Hernández, Marta Pegueroles Neyra, Miquel Punset Fusté, Alejandra Rodríguez Contreras, Daniel Rodríguez Rius, Elisa Rupérez de Gracia

POSTDOC - ASSOCIATE RESEARCHER

Judit Buxadera Palomero, Laura Córdoba Román, Jordi Guillem Martí, Osnat Hakimi, Cédric Labay, Irene Lodoso Torrecilla, Helena Martín Gómez, Francesco Tampieri, Juan Tornín Cavielles

PHD STUDENT

Mar Bonany Mariñosa, Victor Chausse Calbet, Laura del Mazo Barberà, Claudia García Mintegui, Inès Hamouda, Joanna Magdalena Konka, Miguel Mateu Sanz, Joaquim Minguela Díaz, Lluís Oliver Cervelló, Santiago Raymond Llorens, Xavier Solé Martí, Diego Torres Garrido, Èlia Vidal Girona

TECHNICIAN

Meritxell Molmeneu Trias, Meritxell Sánchez Hervàs

PROJECT MANAGER

Nelia Aparicio Bádenas

Selected projects

- Atmospheric Pressure plAsma meets biomaterials for bone Cancer HEaling (APACHE). European Commission. ERC Starting Grants. ERC-2016-STG 714793. PI: Cristina Canal Barnils. 2016 - 2021.
- Print4Life: "Novel bioprinting strategies for bone regeneration cáncer therapies". Ministerio de Economía, Industria y Competitividad. MINECO. MAT2015-65601- R. PI: Maria Pau Ginebra Molins and Cristina Canal Barnils. 2016 - 2019.
- Duality: "Recubrimientos de biomateriales de doble acción para infecciones bacterianas e integración de tejidos". Agencia Estatal de Investigación, Ministerio de Ciencia, Innovación y Universidades. RTI2018-098075-B-C21. PI: José M. Manero and Marta Pegueroles. 2019 - 2021.

Selected publications

- Barba A, Díez Escudero A, Español M, Bonany M, Sadowska JM, Guillem J, et al. Impact of Biomimicry in the Design of Osteoinductive Bone Substitutes: Nanoscale Matters. *ACS Appl Mater Interfaces*. 2019; 11(9): 8818 - 8830. FI: 8,456(Q1)
- Guillem J, Gelabert M, Heras-Parets A, Pegueroles M, Ginebra MP, Manero JM. RGD Mutation of the Heparin Binding II Fragment of Fibronectin for Guiding Mesenchymal Stem Cell Behavior on Titanium Surfaces. *ACS Appl Mater Interfaces*. 2019; 11(4): 3666 - 3678. FI: 8,456(Q1)
- Sadowska JM, Guillem J, Ginebra MP. The Influence of Physicochemical Properties of Biomimetic Hydroxyapatite on the In Vitro Behavior of Endothelial Progenitor Cells and Their Interaction with Mesenchymal Stem Cells. *Adv Healthc Mater*; 2019. 8(2): e1801138. FI: 6,270(Q1)
- Sadowska JM, Wei F, Guo J, Guillem J, Lin Z, Ginebra MP, Xiao Y. The effect of biomimetic calcium deficient hydroxyapatite and sintered β-tricalcium phosphate on osteoimmune reaction and osteogenesis. *Acta Biomater*. 2019; 96: 605 - 618. FI: 6,638(Q1)



PUBLICATIONS
WITH IF



FIRST QUARTILE
PUBLICATIONS



FIRST DECILE
PUBLICATIONS

Networks

- Red Temática de BIOMATERIALES BACTERICIDAS PARA LA LUCHA CONTRA LA PERIIMPLANTITIS. 2019
- AMICI: Anti-Microbial Coating Innovations to prevent infectious diseases. 2015

MEDICAL TECHNOLOGIES: ANALYSIS FOR REHABILITATION

Miquel Angel Mañana Villanueva, PhD



Members

STAFF RESEARCHER

Joan Francesc Alonso Lopez, Sergio Romero Lafuente

POST-DOC ASSOCIATION RESEARCHER

Leidy Y. Serna Higuita, Carolina Falcone Migliorelli, Mislav Jordanic, Alejandro Bachiller Matarranz, Marjan Mansourian Gharakozlou

PHD STUDENT

Mehdi Shirzadi, Ana Tost Abadias

ASSISTANT RESEARCHER

Elena Condomines Casanoves, David Ivernón Garrido

TECHNICIAN

Isidre Solé Ramon

PROJECT MANAGER

Anna Nicolau Torra

COLLABORATOR RESEARCHER

Hamid R. Marateb

Selected projects

- Multimodal analysis for assessment and rehabilitation of disabling neurological disorders. MINECO. 2017. DPI2017-83989-R. PI: Miguel Ángel Mañanas and Sergio Romero. 2018 - 2020.
- Cost effective self-management of urinary incontinence addressed to women across Europe (WOMEN-UP). Programa Europeu. H2020. H2020-PHC-2014. Ref. 643535. PI: Miguel Ángel Mañanas. 2015 - 2019.
- An online expert-based intelligent hybrid system to predict and assess motor rehabilitation outcomes in neurological disorders: NEURASSESS. Generalitat de Catalunya / European Commission. TECSPR18-1-0017. PI: Miguel Ángel Mañanas. 2019 - 2021.

Selected publications

- Molina V, Bachiller A, de Luis R, Lubeiro A, Poza J, Hornero R, et al. Topography of activation deficits in schizophrenia during P300 task related to cognition and structural connectivity. *Eur Arch Psychiatry Clin Neurosci.* 2019; 269(4): 419 - 428. FI: 3,192(Q2)
- Rojas M, Alonso Lopez JF, Jordanic M, Mañanas MA and Chaler J. Analysis of Muscle Load-Sharing in Patients With Lateral Epicondylitis During Endurance Isokinetic Contractions Using Non-linear Prediction. *Front Physiol.* 2019; 10: 1185. FI: 3,201(Q2)
- Salazar M, Hernández AM, Mañanas MA, Zuluaga A. Potential clinical application of surface electromyography as indicator of neuromuscular recovery during weaning tests after organophosphate poisoning. *Revista Brasileira de Terapia Intensiva.* 2017; 29(2): 253 - 258. FI: (Q)
- Migliorelli C, Bachiller A, Andrade AG, Alonso Lopez JF, Mañanas MA, Borja C, Giménez S, Antonijaoan RM, Varga AW, Osorio RS, Romero S. Alterations in EEG connectivity in healthy young adults provide an indicator of sleep depth. *Sleep.* 2019; 42(6). FI: 4,5

Networks

- 2008 Centros de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN)

MEDICAL TECHNOLOGIES: INSTRUMENTATION AND eHEALTH

Xavier Rosell Ferrer, PhD



Members

STAFF RESEARCHER

Ramon Bragos Barcia, Pere Riu Costa

Selected projects

- Integrating CARTo and multi-frequency impedance system. BiosenseWebster. PI: Xavier Rosell Ferrer. 2019 - 2019.
- Electronic biopsy of in-vivo lung tissue based on electrical impedance spectroscopy. Agencia Estatal de Investigación. RTI2018-098116-B-C21. PI: Ramon Bragos

Bardia. 2019 - 2021. Grups de recerca consolidats. AGAUR. 2017 SGR 419. PI: Xavier Rosell. 2017 - 2020.

- A novel myocardial impedance mapping system for ablation of post-infarction ventricular arrhythmias in humans. Fundació La Marató de TV3. MARATO 20150830. PI: Xavier Rosell. 2016 - 2020.

Selected publications

- Ontanilla-Clavijo G, Ampuero J, Borreguero S, Rosell Ferrer X, Romero-Gómez M. Usefulness of bioelectrical impedance analysis for monitoring patients with refractory ascites. Rev Esp Enferm Dig. 2019;111(3): 223 - 227. FI: 1,858(Q4)

MEDICAL TECHNOLOGIES: GRAPHIC COMPUTING: SERIOUS GAMES AND GAMIFICATION

Daniela Tost Pardell, PhD

Members

STAFF RESEARCHER

Dolors Ayala Vallespí, Jose Luis Eguía Gómez, Robert Joan Arinyó, Núria Pla García, Lluís Solano Albages, Marc Vigo Anglada

PHD STUDENT

Núria Bonet Codina, Ariel von Barnekow

Selected projects

- BEST: Bienestar y Salud mental en el puesto de trabajo. IRSJD. 2018. C11230. PI: Dani Tost. 2019 - 2020.

MEDICAL TECHNOLOGIES: ROBOTICS AND VISION

Alicia Casals Gelpí, PhD

A new Marie Curie European Project on endoluminal robotic surgery has been started. This project is along the line of the projects underway on robotic surgery applicable in foetal and laparoscopic procedures. Specifically, this research project focusses on the processing of images and of sensory information for the intelligent control of robots. One of the assistance robots in progress, the "roller" (an intelligent walker) has been certified and transferred to an international enterprise.

Members

STAFF RESEARCHER

Josep Amat Girbau, Joan Aranda López, Josep Fernández Ruzafa, Manel Frigola Bourlon, Albert Hernansanz Prats, Enric Xavier Martín Rull, Antonio Benito Martínez Velasco, Luis Miguel Muñoz Morgado

PHD STUDENT

Marina Farahi, Maria Farahi, Martina Finocchiaro, Marien Cristina Narvaez Morata, Narcís Sayols Baixeras

ASSISTANT RESEARCHER

Tomás Pieras Morell, Laureano Tinoco, Alejandro Veiga

Selected projects

- Autonomous Intraluminal Surgery (ATLAS). H2020. H2020-ITN 2018 REF: 813782. PI: Alícia Casals. 2019 - 2023.
- Smart Autonomous RoboticAssistant Surgeon (SARAS). H2020. H2020-ICT-2017 Ref 779813. PI: Alícia Casals. 2018 - 2020.
- Agreement Regarding Purchase of R&D. PI: Antonio B. Martínez. 2018 - 2019.
- Caminadors elèctrics. TOPRO Industry. PI: Antonio B. Martínez. 2018 - 2020.

Selected publications

- Marbán A, Srinivasan V, Samek W, Fernandez J, Casals-Gelpí A. A recurrent convolutional neural network approach for sensorless force estimation in robotic surgery. Biomedical Signal Processing and Control. 2019; 50: 134 - 150. PI: 2,943(Q2)
- Sayols N, Hernansanz A, Parra J, Eixarch E, Gratacós E, Amat J, Casals-Gelpí A. Vision Based Robot Assistance in TTS Fetal Surgery. Conf Proc IEEE Eng Med Biol Soc. 2019; 2019: 5855 - 5861. PI: (Q)



Networks

- 2019 - DIH-Hero Digital Innovation Hub
- 2017 - Cluster de Salut Mental

MEDICAL TECHNOLOGIES: MEDICAL IMAGING

Mercè Ginjaume Egido, PhD

Members

STAFF RESEARCHER

Maria Amor Duch Guillen

PHD STUDENT

Marina Farahi, Maria Farahi, Martina Finocchiaro, Marien Cristina Narvaez Morata, Narcís Sayols Baixeras

ASSISTANT RESEARCHER

Tomás Pieras Morell, Laureano Tinoco, Alejandro Veiga

Selected projects

- Calibratge d'equips de mesura de radiacions ionitzants - Trescal S.L. TRESCLAL, S.A. C-11045 (UPC). PI: Mercè Ginjaume. 2019 - 2019.
- Realización de una intercomparación destinada a valorar el grado de fiabilidad de los servicios de dosimetría personal externa autorizados en

Espanya. Consejo de Seguridad Nacional. PI: Mercè Ginjaume. 2019 - 2020.

- Estimaciones de dosis ocupacionales en cristalino en instalaciones sanitarias y de investigación (EDOCIL). Propuestas de vigilancia radiológica individual. Consejo de Seguridad Nacional. PI: Mercè Ginjaume. 2019 - 2022.
- Irradiació de dosímetres

Vandellòs. Asociación Nuclear Ascó Vandellòs. PI: Mercè Ginjaume. 2019 - 2019.

- Calibración equipos. ACPRO S.L. PI: Mercè Ginjaume. 2019 - 2019.
- Transversal Programme in Medical Image PostProcess, Training Professionals: 3D Printing. European Institute of Innovation and Technology (EIT). PI: Mercè Ginjaume. 2019 - 2019.

MEDICAL TECHNOLOGIES: BIOMECHANICAL

Josep Maria Font Llagunes, PhD

In 2019, the Biomechanical Engineering Lab (BIOMEC) research group of CREB-UPC has received three competitive projects (ET Health Innovation, AGAUR Product, and MICINN National Project). Likewise, it has received financing from the Duchenne Parent Project to carry out projects on assistance robotics for paediatric patients with Duchenne. Seven papers were published in the journal JCR, and the spin-off of the ABLE Human Motion group won various prizes, including the Best Young Business Initiative Prize 2019 awarded by the management association CECOT.

Members

STAFF RESEARCHER

Ana Barjau Condomines, Rosa Pàmies Vilà, Daniel Clos Costa

POSTDOC - ASSOCIATE RESEARCHER

Joan Lobo Prat

PHD STUDENT

Míriam Febrer Nafría, Mireia Claramunt Molet, Antonio Rodríguez Fernández, Jesús de Miguel Fernández

ASSISTANT RESEARCHER

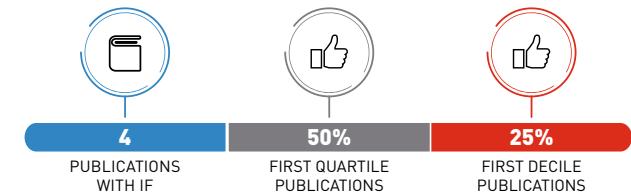
Víctor Antonio Carmona Ortiz

Selected projects

- Personalized robotic exoskeleton for gait rehabilitation. Fundació BBVA. PI: Josep Maria Font. 2018 - 2020.
- ABLE: exoesquelet robòtic que permet tornar a caminar de forma natural i intuitiva després de patir una lesió medul·lar. AGAUR. 2018-PROD-00059. PI: Josep Maria Font. 2019 - 2020.
- Design of personalized robotic and neuroprosthetic wearable systems for walking assistance using a predictive simulation framework (TAILOR). Spanish Ministry of Science, Innovation and Universities (MICINN). RTI2018-097290-B-C33. PI: Josep Maria Font. 2019 - 2021.

Selected publications

- Gomez-Perez C, Font Llagunes JM, Martori JC and Vidal Samso J. Gait parameters in children with bilateral spastic cerebral palsy: a systematic review of randomized controlled trials. *Dev Med Child Neurol.* 2019; 61(7): 770 - 782. FI: 3,532(Q1)
- Pallarès-López R, Costa-Alvim F, Febrer Nafría M, Luporini L, Font Llagunes JM. Assessment of residual reduction procedures for high-speed tasks. *Gait Posture.* 2019; 73: 116 - 119. FI: 2,414(Q2)
- Stuhlenmüller F, Clos D, Rinderknecht S, Beckerle P, Font Llagunes JM. Impact of friction and gait parameters on the optimization of series elastic actuators for gait assistance. *Mech Mach Theory.* 2019; 133: 737 - 749. FI: 3,535(Q1)
- Tassani S, Font Llagunes JM, Gonzalez Ballester MA, Noaill J. Muscular tension significantly affects stability in standing posture. *Gait Posture.* 2019; 68: 220 - 226. FI: 2,414(Q2)



PATIENTS ENGAGEMENT IN RESEARCH

Joana Claverol Torres
Begonya Nafria Escalera

In 2019, the Patients Engagement in Research group focussed its activity on two strategic areas: the fostering of the participation of paediatric patients and their parents in the design of clinical trials, and the performance of various collaborative research projects with patients/carers affected by a rare disease. The group's mission over the course of 2019 was to provide a suitable context and an optimum methodology for patients' contribution to research, with the aim of ensuring that their collaboration will have a significant impact. The analysis of the pertinent results and the dissemination of the respective initiatives formed part of each project's activities.

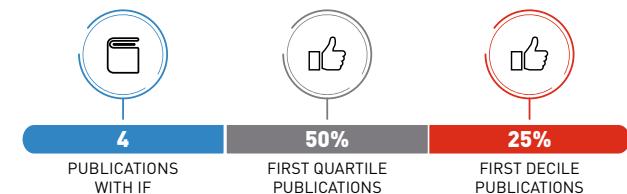
Members

STAFF RESEARCHER

Sara Hernández Ortega, Estibaliz Iglesias Jimenez, Nuria Noel Palacio, Francesco Schiraldi

Selected projects

- EJP RD: European Joint Programme on Rare Diseases. European Commission. H2020-SC1-BHC-04. 825575. PI: Joana Claverol Torres. 2019 - 2023.
- PARADIGM_Patients Active in Research and Dialogues for an Improved Generation of Medicines: Advancing meaningful patient engagement in the life cycle of medicines for better health outcomes. European Commission. H2020-JTI-IMI2-2016-10-two-stage-Topic10-2nd stage. PI: Begona Nafria Escalera. 2018 - 2020.
- SHARE4RARE: Social media platform dedicated to rare diseases, using collective intelligence for the generation of awareness and advanced knowledge on this large group of diseases. European Commission. H2020-ICT-11-2017. PI: Begona Nafria Escalera. 2018 - 2020.
- c4c_connect4children (Collaborative Network for European Clinical Trials For Children). European Commission. H2020-JTI-IMI2-2016-10-two-stage-Topic 4- 2nd stage. 777389. PI: Joana Claverol Torres. 2018 - 2024
- PFE00035_ID-EPTRI (GA nº 777554). European Commission.



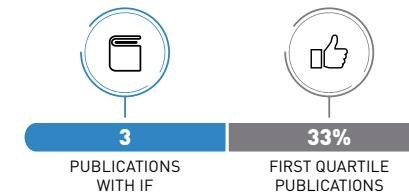
H2020-INFRADEV-01-2017.
777554. PI: Joana Claverol Torres.
2018 - 2020

Selected publications

- Badia X, Aguarón A, Fernández A, Gimón A, Nafria-Escalera B, Gaspar B, et al. Patient involvement in reflective multicriteria decision analysis to assist decision making in oncology. Int J Technol Assess Health Care. 2019; 35(1): 56 - 63. FI: 1,418(Q3)
- Deane K, Delbecque L, Gorbenko O, Hamoir AM, Hoos A, Nafria-Escalera B, et al. Co-creation of patient engagement quality guidance for medicines development: an international multistakeholder initiative. BMJ Innov. 2019; 5(1): 43 - 55. FI: (Q)
- Nordenmalm S, Kimland E, Ligas F, Lehmann B, Claverol J, Nafria-Escalera B, et al. Children's views on taking medicines and participating in clinical trials. Arch Dis Child. 2019; 104(9): 900 - 905. FI: 3,158(Q1)
- Tsang VWL, West L, Woods C, Koh CJ, McCune S, Mullin T, et al. Role of Patients and Parents in Pediatric Drug Development. Ther Innov Regul Sci. 2019;53(5): 601 - 608. FI: 0,901(Q4)

INNOVATION IN HEALTH TECHNOLOGIES

Jaume Pérez Payarols, MD, PhD



Members

STAFF RESEARCHER

Marta Ayats Soler, Carmen De la Gala Otero, Lucas Krauel Giménez-Salinas, José M. Quintillá Martínez, Josep Rubio Palau, Arian Tarbal Roquer, Arnau Valls Esteve

ASSISTANT RESEARCHER

María Garau Rolandi, Alessandra Zoccali

MANAGEMENT

Ariadna Ballesteros Herruzzo, Paula Cañal Vega, Alex Rigol Reyes

Selected projects

- Using indicators to influence consumer behaviour and prevent pre-disease through food and lifestyle-related interventions (STOP MetSyn). EIT Health e.V. Food4Health. 19967. PI: Arian Tarbal Roquer. 2019 - 2019.
- Allfonce: Training professionals and families for a healthier childhood. EIT Health e.V. EIT-CAMPUS- Citizens (BP 2019). PI: Arian Tarbal Roquer. 2019 - 2019.
- P2 - FUSE3D: Tecnologies per a deposició de material semifos. Departament de Salut - Generalitat de Catalunya. Technologies emergents. PI: Arnau Valls Esteve. 2019 - 2022.
- Starship_Fellowship Network (19218). EIT Health e.V. CAMPUS, Citizens, Summer School. 19218. PI: Arnau Valls Esteve. 2019 - 2019.

Selected publications

- Duque P, Quintillá Martínez JM, Varela JA, Garrido P, Valencia Ó, Maestre JM. Emotional response to a high-fidelity trauma simulation: An observational study. Rev Esp Anestesiol Reanim. 2019; 66(10): 521 - 527. FI: (Q)
- Fenollosa F, Gomà JR, Buj-Corral I, Tejo-Otero A, Minguela-Canela J, Uceda R, et al. Foreseeing new multi-material FFF-Additive Manufacturing concepts meeting mimicking requirements with living tissues. Procedia Manufacturing. 2019; 41: 1063 - 1070. FI: (Q)
- Lezama-Del Valle P, Krauel L, LaQuaglia MP. Error traps and culture of safety in pediatric surgical oncology. Semin Pediatr Surg. 2019; 28(3): 164 - 171. FI: 2,462(Q1)
- Parri F, Alonso V, Albert A, Bejarano M, Vicario F, Rubio Palau J. Auricular Reconstructive Surgery Improvement to the Firmin Technique for Placing an Earring. Cleft Palate Craniofac J. 2019; 56(9): 1260 - 1262. FI: 1,471(Q3)
- Salcedo-Gil CA, Prieto Gundin A, Alberola Ferranti M, Rubio Palau J. Lymphoepithelial carcinoma of the accessory parotid gland. Br J Oral Maxillofac Surg. 2019; 57(4): 365 - 367. FI: 1,164(Q3)

DIAGNOSTIC AND THERAPEUTIC IMAGE

Jose Luis Munuera del Cerro, MD, PhD

Members

STAFF RESEARCHER

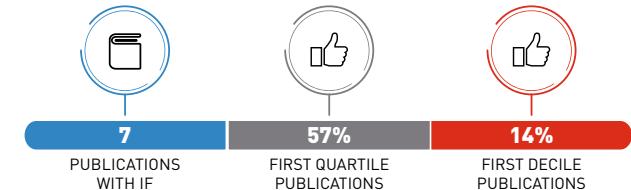
Marta Gómez Chiari, Emilio Inarejos Clemente, Marta Maristany Cucurella, Mónica Rebollo Polo

Selected projects

- EXPERT3D_Transversal programme in medical image post-process, training professionals: 3D printing to research. EIT Health e.V. 02/04/2019. 19787. PI: Jose Luis Munuera del Cerro. 2019.
- Resonancia magnética funcional e imagen de tensor de difusión en la valoración prequirúrgica del paciente pediátrico con hipoacusia prelingual neurosensorial profunda bilateral de detección en el cribado neonatal como potenciales biomarcadores de desarrollo de lenguaje oral tras la colocación de un implante coclear. Sociedad Española de Neurorradiología (SENR). 05/10/2017. PI: Mónica Rebollo Polo. 2017 - 2020.

Selected publications

- Alonso-Lana S, Moro N, McKenna PJ, Sarró S, Romaguera A, Monté GC, et al. Longitudinal brain functional changes between mania and euthymia in bipolar disorder. *Bipolar Disord.* 2019; 21(5): 449 - 457. FI: 4,936(Q1)
- Madre M, Canales-Rodríguez EJ, Fuentes-Claramonte P, Alonso-Lana S, Salgado-Pineda P, Guerrero-Pedraza A, et al. Structural abnormality in schizophrenia versus bipolar disorder: A whole brain cortical thickness, surface area, volume and gyration analyses. *Neuroimage Clin.* 2019; 25: 102131 - 102131. FI: 3,943(Q1)
- Navallas M, Inarejos E, Iglesias-Jimenez E, Rebollo M, Anton-Lopez J, Navarro OM. Connective Tissue Disorders in Childhood: Are They All the Same?. *Radiographics.* 2019; 39(1): 229 - 250. FI: 3,923(Q1)
- Pérez-Grijalba V, Arbizu J, Romero J, Prieto E, Pesini P, Sarasa L, et al. Plasma A β 42/40 ratio alone or combined with FDG-PET can accurately predict amyloid-PET positivity: a cross-sectional analysis from the AB255 Study. *Alzheimers Res Ther.* 2019; 11(1): 96 - 96. FI: 6,142(Q1)





SJD

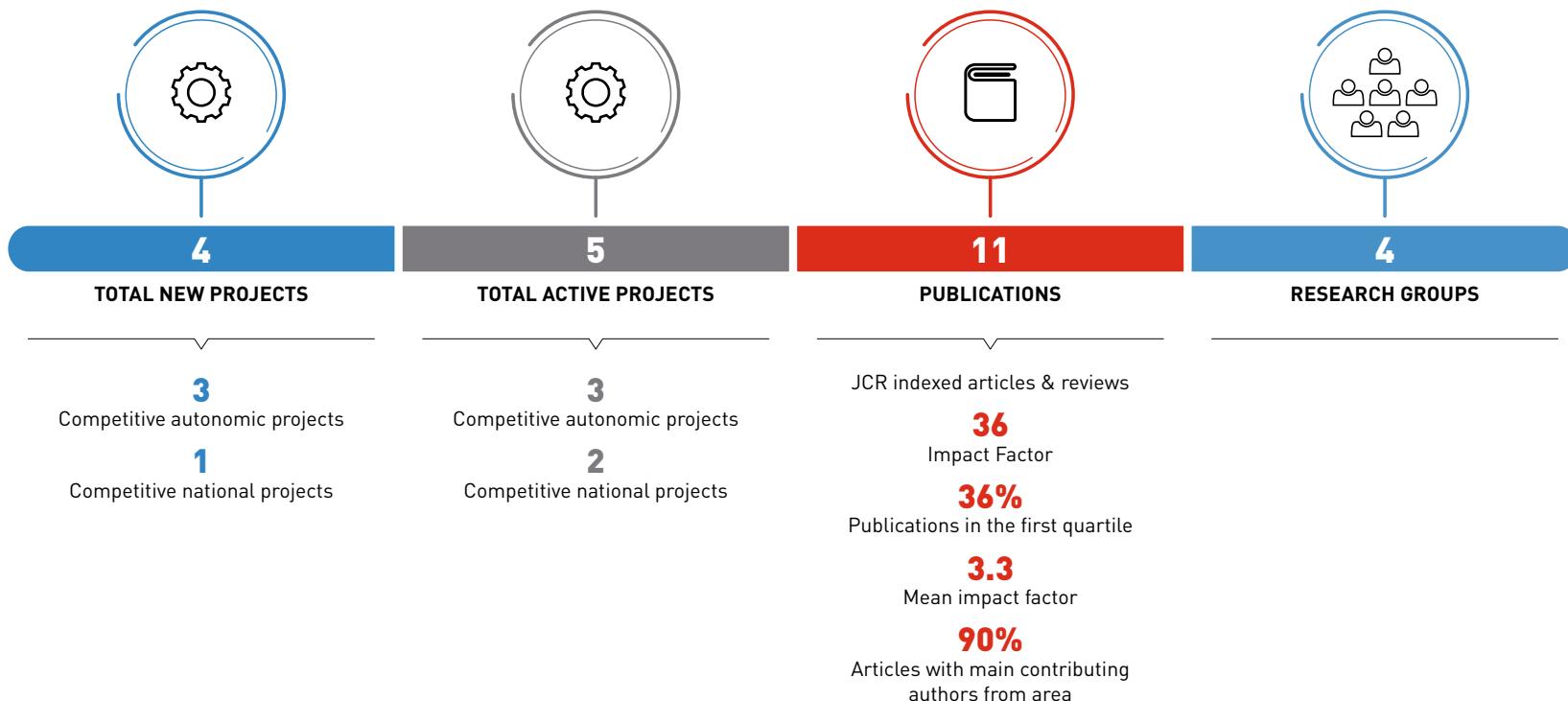
Sant Joan de Déu
Institut de Recerca



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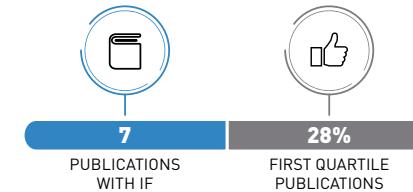
APPLIED CLINICAL RESEARCH

Influence of the environment on child and adolescent welfare
Paediatric ophthalmology
Hospital dentistry and periodontal medicine
Research in nursing



INFLUENCE OF THE ENVIRONMENT ON CHILD AND ADOLESCENT WELFARE

Carles Luaces Cubells, MD, PhD



Contribution to the development and dissemination of the protocol of action for mistreatments in childhood and adolescence in healthcare field (published by the Secretariat for Public Health, Catalan Department of Health, Barcelona, March 2019: http://salutpublica.gencat.cat/.content/minisite/aspcat/promocio_salut/infancia-i-adolescencia/05maltractamentinfantojuvenil/protocolo-actuacio-maltractaments-infancia.pdf)

Coordination of telemedicine sessions (1 monthly) with Spanish and Latin American centres aimed to facilitate the exchange of experiences relating to clinical situations specific to the sphere of paediatric patients.

Members

STAFF RESEARCHER

Andrea Aldemira Liz, Vanessa Arias Constantí, Gemma Claret Teruel, Ana Isabel Curcoy Barcenilla, Eva Gargallo Burriel, Lidia Martínez Sánchez, David Muñoz Santanach, Sergi Navarro Vilarrubi, Cristina Parra Cotanda, Marta Simó Nebot, Victoria Trenchs Sainz de la Maza

Selected projects

- Estudio prospectivo observacional sobre la hidratación y nutrición en pacientes pediátricos con enfermedad avanzada. Sociedad Española de cuidados paliativos pediátricos (PEDPAL). Beca Nutricia. PI: Sergi Navarro Vilarrubi. 2019-2020.

Selected publications

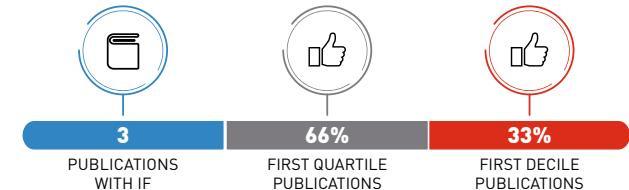
- Brotóns-de los Reyes P, Nogueras MM, Valls-Lafon A, Larrauri A, Domínguez A, Launes-Montaña C, Luaces-Cubells C and Muñoz-Almagro C. Impact of Rapid On-demand Molecular Diagnosis of Pediatric Seasonal Influenza on Laboratory Workflow and Testing Costs: A Retrospective Study. *Pediatr Infect Dis J.* 2019; 38(6): 559 - 563. FI: 2,317(Q2)
- Cristina Parra Cotanda, Trenchs-Sainz de la Maza V, Sabater Sabaté A and Luaces-Cubells C. Perceived quality in a pediatric emergency department: what does the mother think about?. *Emergencias.* 2019; 31(2): 136 - 138. FI: 3,350(Q1)
- Faura Morros A, Cuaresma González A, Hernández-Bou S, Trenchs-Sainz de la Maza V, Camacho Díaz JA and Luaces-Cubells C. Rentabilidad diagnóstica de la ecografía renal tras la primera infección de orina en los lactantes. *An Pediatr (Barc).* 2019; 90(4): 232 - 236. FI: 1,166(Q3)
- Sarria-Guerrero JA, Luaces-Cubells C, Jiménez-Fàbrega FX, Villamor-Ordozgoiti A, Isla Pera P and Guix-Comellas EM. Pediatric televisits and telephone triage: impact on use of a hospital emergency department. *Emergencias.* 2019; 31(4): 257 - 260. FI: 3,350(Q1)

Networks

- Research in pediatric emergency medicine (REPEM) network (The European Paediatric Emergency Medicine Research Network. Pediatric Section of the European Society for Emergency Medicine)
- Red De Investigación De La Sociedad Española De Urgencias De Pediatría / Spanish Pediatric Emergency Research Group (RISeuP/SPERG), 2012
- Red de investigación y desarrollo de la emergencia pediátrica latinoamericana (RIDEPLA)

PAEDIATRIC OPHTHALMOLOGY

Joan Prat Bartomeu, MD, PhD



Members

STAFF RESEARCHER

Ester Casas Gimeno, Jaume Català Mora, Ana Isabel Díaz Cortés, Carlos Fresno Cañada, Carmen García de Vicuña Muñoz, Enrique Jiménez Gañan, Marta Morales Ballús, Mª Josep Planas Tapias, Enric Puigventós, Alicia Serra Castanera, Gemma Romeu Cerrillo, Ana Llorca Cardeñoso, Begoña Yeste Mayoral, Núria Planas Doménech, Simone Down Suh, Jesús Díaz Cascajosa, Elisa Carreras Bertrán

Selected publications

- Foeldvari I, Klotsche J, Simonini G, Edelsten C, Angeles-Han ST, Bangsgaard R, et al. Proposal for a definition for response to treatment, inactive disease and damage for JIA associated uveitis based on the validation of a uveitis related JIA outcome measures from the Multinational Interdisciplinary Working Group for Uveitis in Childhood (MIWGUC). *Pediatr Rheumatol Online J.* 2019; 17(1): 66 - 66. FI: 2,673(Q1)
- Koch CR, Kara-Junior N, Santhiago MR and Morales-Ballus M. Comparison of different surgical approaches for pediatric cataracts: complications and rates of additional surgery during long-term follow-up. *Clinics (Sao Paulo).* 2019; 74: e966. FI: 1,127(Q3)
- Pascual-Pasto G, Bazan-Peregrino M, Gene-Olaciregui N, Restrepo-Perdomo CA, Mato-Berciano A, Ottaviani D, et al. Therapeutic targeting of the RB1 pathway in retinoblastoma with the oncolytic adenovirus VCN-01. *SCI TRANSL MED.* 2019; 11(476). FI: 17,200(Q1)

HOSPITAL DENTISTRY AND PERIODONTAL MEDICINE

Alejandro Rivera Baró, MD, PhD

Members

STAFF RESEARCHER

Lluís Brunet Llobet, Jordi Moncunill Mira, Maria Lluïsa Tobella Camps, Jaume Miranda Rius, Mireia Aznar Gómez

Selected projects

- SGR 2017_Hospital Dentistry & Periodontal Medicine Research Group. Agaur - Agència de Gestió d'Àjuts Universitaris i de Recerca. SGR 2017-2019. 2017 SGR 00453. PI: Lluís Brunet Llobet. 2017 - 2020.

Selected publications

- Brunet-Garcia A, Costa-Climent MD, Pujol-Rodríguez M, Lluís Brunet Llobet and Faubel-Serra M. Sphenoid sinus mucocele: an unusual complication of head and neck irradiation in a North African woman. *J Clin Exp Dent.* 2019; 11(2): e208-e212. FI: (Q)
- Lluís Brunet Llobet, Lahor-Soler E, Mashala El and Miranda-Rius J. Continuous Surgical Decompression for Solitary Bone Cyst of the Jaw in a Teenage Patient. *Case Rep Dent.* 2019; 2019: 9137507 - 9137507. FI: (Q)

RESEARCH IN NURSING

Laura Lahuerta Valls, PhD

The research conducted by our group is addressed to providing the best care to our patients and their families. Our goal is to give the best possible personal, holistic and integral care based on scientific evidence, in order to empower them and to achieve a quick reintegration into their customary setting, improving their quality of life as well as the experience of their stay at our institution.

In 2019, the Nursing research group carried out the following activities:

1. We developed a care research strategy to promote and coordinate translational and interdisciplinary research in the nursing field.
2. Evidence-based practice was strengthened with the aim to provide safer and better care of the highest quality to our patients and their families.
3. We have created a clinical practice environment in which nurses can apply scientific evidence to improve the care which is provided and the results of their professional activity.
4. Wealth has been generated in the healthcare sphere through innovation and the implementation of various initiatives addressed to improving the quality of life of our patients and their families.

Members

STAFF RESEARCHER

Silvia Cíprés Roig, Encarna Gómez Gamboa, Carmen Jerez Molina, Jordi Mitjà Costa, Gemma Pérez Acevedo, Concepción Agustí Mata, Dolors Navarro

Selected projects

- Sol·licitud de subvencions per a la intensificació de professionals d'infermeria, llevaduria, fisioteràpia, dietètica i nutrició, àptica i optometria, podologia i protètica dental en l'àmbit de la recerca i la innovació en salut. Departament de Salut - Generalitat de Catalunya. Intensificació Competitivo infermeria. SLT008/18/00170. PI: Encarna Gómez Gamboa. 2019 - 2020.
- Sol·licitud de subvencions per a la intensificació de professionals d'infermeria, llevaduria, fisioteràpia, dietètica i nutrició, àptica i optometria, podologia i protètica dental en l'àmbit de la recerca i la innovació en salut. Departament de Salut - Generalitat de Catalunya. Intensificació infermeria. SLT008/18/00164. PI: Gemma Pérez Acevedo. 2019 - 2020.
- Eficacia y seguridad de los ácidos grasos hiperoxigenados en la microcirculación de la púrpura fulminante en pacientes pediátricos con sepsis. Fundació Infermeria i Societat. Ajudes a la Recerca en Infermeria. PR-242/17. PI: Gemma Pérez Acevedo. 2018 - 2019.



Selected publications

- Pérez-Acevedo G, Torra-Bou JE, Marisa Manzano Canillas and Bosch-Alcaraz A. Management of purpura fulminans skin lesions in a premature neonate with sepsis: a case study. J WOUND CARE. 2019; 28(4): 198 - 203. FI: 1,948(Q3)

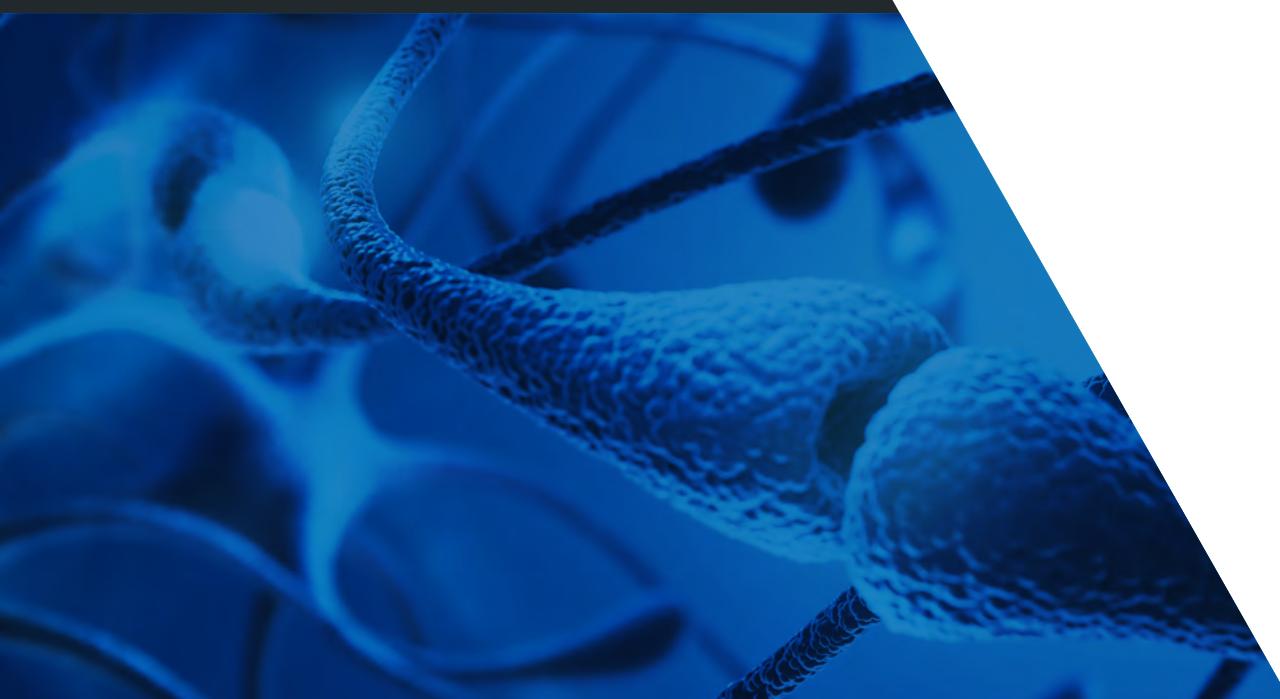


ANNUAL SCIENTIFIC
REPORT
2019

SJD

Sant Joan de Déu
Institut de Recerca

ANNEX 1



Active clinical trials and observational studies during 2019

TMC278HTX2002

A Phase 2, Open-label, Single-arm, Multicenter Study to Evaluate the Pharmacokinetics, Safety, Tolerability, and Efficacy of Switching to RPV Plus Other ARVs in HIV-1-infected Children (Aged 2 to <12 years) who are Virologically Suppressed. Phase II. Promoter: Janssen - Cilag, S. A. Pl: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 19/12/2019. Commercial

I4V-MC-JAHU

A Randomized, Double-Blind, Placebo-Controlled, Withdrawal, Safety and Efficacy Study of Oral Baricitinib in Patients from 1 Year to Less Than 18 Years Old with Systemic Juvenile Idiopathic Arthritis. Phase III. Promoter: Lilly S. A. Pl: Jordi Antón López. Service: Paediatrics. Start: 11/12/2019. Commercial

6MWT

Hospital Sant Joan de Déu - Esplugues HSJD. 1 (FSJD). Prod. Sanitario. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. Pl: Julieta Medina. Service: Rehabilitation and physical medicine. Start: 9/12/19. Non Commercial

G040871

A phase I/II, multicenter, open label, multi arm study evaluating the safety, tolerability, pharmacokinetics, and preliminary activity of idasanutlin in combination with either chemotherapy or venetoclax in the treatment of pediatric and young adult patients with relapsed/refractory acute leukemias or solid tumors. Phase I. Promoter: F. Hoffmann- La Roche Ltd. Pl: Jaume Mora Graupera. Service: Oncology. Start: 06/12/2019. Commercial

INTERFANT-06

Guia de recomendaciones de la sehop para el tratamiento de la leucemia

linfoblástica aguda o bifenotípica del lactante menor de 1 año. No EPA. Promoter: Sociedad Española de Hematología y Oncología Pediátricas. Pl: José Luis Dapena Díaz. Service: Oncology. Start: 04/12/2019. Non Commercial

NS-065/NCNP-01-301

A Phase 3 Randomized, Double-blind, Placebo-controlled, Multicenter Study to Assess the Efficacy and Safety of Viltolarsen in Ambulant Boys with Duchenne Muscular Dystrophy (DMD). Phase III. Promoter: Medpace Clinical Research, LLC. Pl: Andrés Nascimento Osorio. Service: Neurology. Start: 03/12/2019. Commercial

I4V-MC-JAHW

Estudio sin enmascaramiento, comparativo con un tratamiento activo, en el que se evalúan la seguridad y la eficacia del tratamiento con baricitinib por vía oral en pacientes de entre 2 y menos de 18 años que presentan uveítis asociada con artritis idiopática juvenil activa o uveítis anterior crónica y anticuerpos antinucleares. Phase III. Promoter: Lilly S. A. Pl: Jordi Antón López. Service: Paediatrics. Start: 15/11/2019. Commercial

MT-12

A one-year placebo-controlled phase III trial evaluating the efficacy and safety of the house dust mite (HDM) SLIT-tablet in children [5-11 years of age] with HDM allergic rhinitis/rhinoconjunctivitis with or without asthma. Phase III. Promoter: ALK-ABELLÓ A/S. Pl: Mònica Piquer Gibert. Service: Allergy and clinical immunology. Start: 14/11/2019. Commercial

GWEP1560

A Randomized, Double-blind, Placebo-controlled Single-ascending Dose Trial to Evaluate the Safety, Tolerability, and Pharmacokinetics of GWP42003-P in

Conjunction with Hypothermia in Neonates with Moderate or Severe Hypoxic Ischemic Encephalopathy. Phase I. Promoter: GW Research. Pl: Ana Alarcon Allen. Service: Neonatology. Start: 14/11/2019. Commercial

WTX101-301

Phase 3, Randomised, Rater-Blinded, Multi-Centre Study to Evaluate the Efficacy and Safety of WTX101 Administered for 48 Weeks Versus Standard of Care in Wilson Disease Subjects Aged 18 and Older with an Extension Phase of up to 60 Months. Phase III. Promoter: Alexion Pharmaceuticals Inc. Pl: Cristina Molera Busoms. Service: Gastroenterology, hepatology and nutrition. Start: 12/11/2019. Commercial

ZX008-1900

An Open-Label Extension Trial to Assess the Long-Term Safety of ZX008 (Fenfluramine Hydrochloride) Oral Solution as an Adjunctive Therapy for Seizures in Patients with Rare Seizure Disorders Such as Epileptic Encephalopathies Including Dravet Syndrome and Lennox- Gastaut Syndrome. Phase III. Promoter: Zogenix, Inc. Pl: Alia Ramírez Camacho. Service: Neurology. Start: 07/11/2019. Commercial

CSEG101B2201

Estudio de fase 2, multicéntrico, abierto para evaluar la dosis adecuada y la seguridad de crizantimab, con o sin hidroxiumea/hydroxicarbamida, en grupos secuenciales de edad descendente de pacientes pediátricos con Enfermedad de Células Falciformes con crisis vaso-occlusivas. Phase II. Promoter: Novartis Farmacéutica, S. A. Pl: Anna Ruiz Llobet. Service: Clinical haematology. Start: 05/11/2019. Commercial

GWND18064

A randomized, double-blind, placebo-controlled, trial to investigate the efficacy

and safety of cannabidiol oral solution (GWP42003-P, CBD-OS) in patients with rett syndrome. Phase III. Promoter: GW Research. Pl: Mªdel Mar O'Callaghan Gordo. Service: Neurology. Start: 04/11/2019. Commercial

I4V-MC-JAHX

A Phase 3 Multicenter Study to Evaluate the Long-Term Safety and Efficacy of Baricitinib in Patients from 1 Year to <18 Years of Age with Juvenile Idiopathic Arthritis (JIA). Phase III. Promoter: Lilly S. A. Pl: Jordi Antón López. Service: Paediatrics. Start: 25/10/2019. Commercial

20170534

Estudio de extensión abierto, multicéntrico y de un solo brazo para evaluar la seguridad y eficacia a largo plazo del tratamiento actual o anterior con denosumab en niños / adultos jóvenes con osteogénesis imperfecta. Phase III. Promoter: Amgen Inc. Pl: Rosa Bou i Torrent. Service: Paediatrics. Start: 16/10/2019. Commercial

MK-7625A-036

A Phase 1, open-label, non-comparative, multicenter clinical trial to evaluate the safety, tolerability, and pharmacokinetics of ceftolozane/tazobactam (MK-7625A) in pediatric participants with nosocomial pneumonia. Phase I. Promoter: Merck, Sharp & Dohme de España, S. A. Pl: Iolanda Jordán García. Service: UCI. Start: 08/10/2019. Commercial

105-MS306

An Open-Label, Randomized, Multicenter, Active-Controlled, Parallel-Group Study to Evaluate the Safety, Tolerability, and Efficacy of BIIB017 in Pediatric Subjects Aged 10 to Less Than 18 Years for the Treatment of Relapsing Remitting Multiple Sclerosis, With Optional Open-Label



Extension. Phase III. Promoter: Biogen IDEC Research LTD. PI: Thais Armangue Salvador. Service: Neurology. Start: 10/09/2019. Commercial

MT-2-02

An exploratory, open-label, multicenter study in male pediatric patients with cerebral X-Linked adrenoleukodystrophy (CALD) to assess the effects of min 102 treatment on the progression of cerebral lesions. Phase II. Promoter: Minoryx Therapeutics S. L. PI: Mª Angels García Cazorla. Service: Neurology. Start: 09/09/2019. Commercial

GC-LTFU-001

Protocolo para el seguimiento a largo plazo de pacientes tratados con linfocitos T modificados genéticamente. Phase III. Promoter: Celgene International II S. à. r. l. PI: Susana Rives Solà. Service: Oncology. Start: 23/08/2019. Commercial

ARQ-092-103

A Phase 1/2 Study of ARQ 092 in Patients with PIK3CA-related Overgrowth Spectrum and Proteus Syndrome. Phase I. Promoter: ARQULE, INC. PI: Jaume Mora Graupera. Service: Oncology. Start: 20/08/2019. Commercial

UKM17_0023

LBL 2018 – International cooperative treatment protocol for children and adolescents with lymphoblastic lymphoma. Phase II. Promoter: Universitätsklinikum Münster. PI: Veronica Celis Passini. Service: Oncology. Start: 02/08/2019. Non Commercial

M15-340

An Open-label Multiple Dose Study to Evaluate the Pharmacokinetics, Safety, and Tolerability of Upadacitinib in Pediatric Subjects with Polyarticular

Course Juvenile Idiopathic Arthritis. Phase I. Promoter: "Abbvie Deutschland GmbH & Co. KG ""Abbvie""". PI: Jordi Antón López. Service: Paediatrics. Start: 24/07/2019. Commercial

VBP15-004

A Phase IIb Randomized, Double-blind, Parallel Group, Placebo- and Active-controlled Study with Double-Blind Extension to Assess the Efficacy and Safety of Vamorolone in Ambulant Boys with Duchenne Muscular Dystrophy (DMD). Phase II. Promoter: Reveragen Biopharma Inc. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 22/07/2019. Commercial

TMC114FD2HTX1006

Ensayo para evaluar la aceptabilidad de comprimidos ranurados recubiertos con película de darunavir/cobicistat/emtricitabina/tenofovir alafenamida (D/C/F/TAF) a dosis fija en participantes pediátricos infectados con VIH-1 de edad ≥6 a <12 años, usando comprimidos equivalentes de placebo. Phase I. Promoter: Jassen Science Ireland UC. PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 19/07/2019. Commercial

CC-10004-PPSO-003

A phase 3, multi-center, randomized, double- blind, placebo controlled study to assess the efficacy and safety of apremilast (CC-10004) in pediatric subjects from 6 through 17 years with moderate to severe plaque psoriasis. Phase III. Promoter: Celgene Corporation. PI: Mª Asunción Vicente Villa. Service: Dermatology. Start: 12/07/2019. Commercial

SRK-015-002

Estudio de fase 2 con tratamiento activo para evaluar la eficacia y la seguridad

de SRK-015 en pacientes con atrofia muscular espinal de inicio tardío. TOPAZ. Phase II. Promoter: Scholar Rock Inc. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 11/07/2019. Commercial

gangliosidosis GM1, gangliosidosis GM2 o enfermedad de Gaucher tipo 2 (RETRIEVE). No EPA. Promoter: Idorsia Pharmaceuticals Ltd. PI: Mª del Mar O'Callaghan Gordo. Service: Neurology. Start: 02/07/2019. Commercial

CQAW039B2201

A multicenter, open-label, 8 day treatment study to assess the pharmacokinetics, safety and tolerability of fevipiprant delivered via a once daily chewable tablet in children aged 6 to <12 years with asthma. Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Jaime Lozano Blasco. Service: Allergy and clinical immunology. Start: 17/06/2019. Commercial

MT1621-102

Estudio abierto en fase II del tratamiento de continuación con una combinación de nucleótidos de pirimidina en pacientes con deficiencia de timidina quinasa 2 (TK2). Phase II. Promoter: Modis Therapeutics, Inc. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 03/06/2019. Commercial

CLCZ696B2319

Estudio multicéntrico, abierto, para evaluar la seguridad, tolerabilidad, farmacocinética y farmacodinámica de LCZ696, seguido de un estudio de 52 semanas, aleatorizado, doble ciego, paralelo controlado con fármaco activo para evaluar la eficacia y seguridad de LCZ696 comparado con enalapril en pacientes pediátricos con edades desde 1 mes hasta < 18 años, con insuficiencia cardiaca debida a disfunción sistólica del ventrículo izquierdo sistémico. Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Joan Sanchez de Toledo. Service: Cardiology. Start: 15/05/2019. Commercial

MT-2-03

A double-blind, placebo-controlled study on the effects of min-102 on biochemical, imaging, neurophysiological, and clinical markers in patients with Friedreich's ataxia. Phase II. Promoter: Minoryx Therapeutics BE SA. PI: Alejandra Darling. Service: Neurology. Start: 26/04/2019. Commercial

DSC/14/2357/51

Estudio abierto, de seguridad a largo plazo, de tolerabilidad y de eficacia de GIVINOSTAT en todos los pacientes con distrofia muscular duchenne que hayan sido tratados previamente en uno de los estudios de GIVINOSTAT. Phase IV. Promoter: Italfarmaco, S. A. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 24/04/2019. Commercial

I4V-MC-JAHV

A Randomized, Double-Blind, Placebo-Controlled, Withdrawal, Safety and Efficacy Study of Oral Baricitinib in Patients from 2 Years to Less Than 18 Years Old with Juvenile Idiopathic Arthritis (JIA). Phase III. Promoter: Lilly S. A. PI: Jordi Antón López. Service: Paediatrics. Start: 24/04/2019. Commercial

BST-LT-01

Ensayo clínico fase Ib-II, prospectivo, multicéntrico, abierto y no controlado para evaluar la seguridad y eficacia inmunológica de la infusión de linfocitos T específicos frente a virus a partir del mejor donante disponible en receptores de un trasplante alógénico de progenitores hematopoyéticos. Phase II. Promoter: Banc de Sang i Teixits. PI: Julia Marsal Ricoma. Service: Oncology. Start: 11/04/2019. Non Commercial

OBS15333

Estudio longitudinal, observacional y prospectivo en pacientes pediátricos con

dermatitis atópica de moderada a grave, cuya enfermedad no está controlada adecuadamente con tratamientos tópicos prescritos o cuando dichos tratamientos no son aconsejables desde el punto de vista médico. EPA-SP. Promoter: Sanofi-Aventis S. A. PI: Mº Asunción Vicente Villa. Service: Dermatology. Start: 10/04/2019. Commercial

SNT-III-012-E

A Phase III Open-Label Extension Study to Assess the Long-Term Safety and Efficacy of Idebenone in Patients with Duchenne Muscular Dystrophy (DMD) who Completed the SIDEROUS Study. Phase III. Promoter: Santhera Pharmaceuticals (Switzerland) Ltd., PI: Andrés Nascimento Osorio. Service: Neurology. Start: 09/04/2019. Commercial

B7451015

Estudio en fase III, multicéntrico y de extensión a largo plazo para evaluar la eficacia y la seguridad de PF-04965842, en monoterapia o en combinación con medicamentos tópicos, administrado a pacientes de 12 años o más con dermatitis atópica moderada o grave. Phase III. Promoter: PFIZER INC. PI: Mº Asunción Vicente Villa. Service: Dermatology. Start: 01/04/2019. Commercial

B7451014

A phase 3 randomized withdrawal, double-blind, placebo-controlled, multi-center study investigating the efficacy and safety of PF-04965842 in subjects aged 12 years and over, with moderate to severe atopc dermatitis with the option of rescue treatment in flaring subjects. Phase III. Promoter: PFIZER INC. PI: Mº Asunción Vicente Villa. Service: Dermatology. Start: 18/03/2019. Commercial

AZP01-CLI-003

A Phase 2b/3 study to evaluate the safety, tolerability, and effects of Livoletide [AZP-531], an unacylated ghrelin analog, on food-related behaviors in patients with Prader-Willi syndrome. Phase II. Promoter: Millendo Therapeutics SAS. PI: Marta Ramon Krauel. Service: Endocrinology. Start: 07/03/2019. Commercial

paralelos, en el que se evalúa la farmacocinética, la eficacia y la seguridad de baricitinib en niños enfermos ambulatorios con dermatitis atópica moderada o grave. Phase III. Promoter: Lilly S. A. PI: Mº Asunción Vicente Villa. Service: Dermatology. Start: 12/02/2019. Commercial

I8B-MC-ITSB

Estudio prospectivo, aleatorizado y con enmascaramiento doble, en el que se compara LY900014 con Humalog, con un grupo en el que se administra LY900014 posprandial sin enmascaramiento, en niños y adolescentes con diabetes de tipo 1: PRONTO-Peds. Phase III. Promoter: Lilly S. A. PI: Larisa Suarez Ortega. Service: Endocrinology. Start: 12/02/2019. Commercial

BMN111-302

Estudio de extensión de fase III, abierto, para evaluar la seguridad y la eficacia a largo plazo de BMN 111 en pacientes pediátricos con acroosteolisis. Phase III. Promoter: BioMarin Pharmaceutical Inc. PI: Rosendo Ullot Font. Service: Orthopaedics and traumatology. Start: 11/02/2019. Commercial

CP-NVK002-0001

Atropina para la progresión de la miopía en niños (CHAMP): un estudio de fase 3 con tres grupos, aleatorizado, con doble enmascaramiento, controlado con placebo, sobre una solución oftálmica de atropina sulfato al 0,01% y 0,02%. Phase III. Promoter: NEVAKAR INC. PI: Isabel Ayet Roger. Service: Ophthalmology. Start: 08/02/2019. Commercial

CL1-68587-001

Estudio abierto, no comparativo, de fase 1 para evaluar la seguridad y la capacidad de UCART19 de inducir una remisión molecular en pacientes pediátricos con

leucemia linfoblástica aguda de células B recurrente/refractaria. Phase I. Promoter: Laboratorios Servier, S. L. PI: Susana Rives Solà. Service: Oncology. Start: 07/02/2019. Commercial

CP40617

A Phase III, Multicenter, Randomized, Double-Blind, Active-Controlled Study to Assess the Efficacy and Safety of Baloxavir Marboxil in Combination with a Neuraminidase Inhibitor Versus a Neuraminidase Inhibitor Alone in Hospitalized Patients with Severe Influenza. Phase III. Promoter: F. Hoffmann- La Roche Ltd. PI: Iolanda Jordán García. Service: UCI. Start: 31/01/2019. Commercial

EFC13738

Open label, two cohort (with and without imiglucerase), multicenter study to evaluate pharmacokinetics, safety, and efficacy of eliglustat in pediatric patients with Gaucher disease type 1 and type 3. Phase III. Promoter: Sanofi-Aventis S. A. PI: Mªdel Mar O'Callaghan Gordo. Service: Neurology. Start: 14/01/2019. Commercial

GET-PEN-2016-01

Estudio prospectivo español de pacientes hematológicos pre- y posttrasplante hematopoyético que ingresan en unidades de cuidados intensivos: análisis de la práctica clínica, resultados en salud, factores pronósticos y utilización de recursos sanitarios. EPA-SP. Promoter: Grupo Español de Transplantes Hematopoyéticos y Terapia Celular. PI: Julia Marsal Ricoma. Service: Oncology. Start: 02/01/2019. Non Commercial

Y-mAbs 101

A Multicenter Phase 2/3 Trial of the Efficacy and Safety of Intracerebroventricular

Radioimmunotherapy using 131I-burtomab for Neuroblastoma Central Nervous System/Leptomeningeal Metastases. Phase II. Promoter: Y-mAbs Therapeutics A/S. PI: Jaume Mora Graupera. Service: Oncology. Start: 20/12/2018. Commercial

CCTL019G2201J

A phase II trial of tisagenlecleucel in first-line high-risk (HR) pediatric and young adult patients with B-cell acute lymphoblastic leukemia (B-ALL) who are minimal residual disease (MRD) positive at the end of consolidation (EOC) therapy. Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Susana Rives Solà. Service: Oncology. Start: 18/12/2018. Commercial

I-CML-Ped Study

International study of chronic myeloid leukemia (CML) treatment and outcomes in children and adolescents. EPA-SP. Promoter: Poitiers University Hospital. PI: Anna Alonso Saladrígues. Service: Oncology. Start: 28/11/2018. Non Commercial

ESKETINSUI2002

A Double-blind, Randomized, Psychoactive Placebo-controlled, Study to Evaluate the Efficacy and Safety of 3 Fixed Doses (28 mg, 56 mg and 84 mg) of Intranasal Esketamine in Addition to Comprehensive Standard of Care for the Rapid Reduction of the Symptoms of Major Depressive Disorder, Including Suicidal Ideation, in Pediatric Subjects Assessed to be at Imminent Risk for Suicide. Phase II. Promoter: Janssen - Cilag, S. A. PI: Montserrat Dolz Abadía. Service: Psychiatry and psychology. Start: 27/11/2018. Commercial

PFI-ADA-2018-01/B1801403

Uso de recursos sanitarios e impacto en la productividad laboral relacionada

con la Artritis Idiopática Juvenil: estudio Retrospectivo. EPA-OD. Promoter: Pfizer, S. L. U. PI: Jordi Antón López. Service: Paediatrics. Start: 13/11/2018. Commercial

LJ501-CRH04

Estudio aleatorizado, controlado con placebo, doble ciego y multicéntrico de la eficacia y la seguridad de LJPC-501 en pacientes pediátricos de > 2 a 17 años de edad con hipotensión resistente a la catecolamina asociada a choque distributivo. Phase III. Promoter: La Jolla Pharmaceutical Company. PI: Iolanda Jordán García. Service: UCI. Start: 06/11/2018. Commercial

MT-1621-101

Estudio RETROspectivo de la combinación de nucleós(t)idos pirimidínicos en pacientes con déficit de timidina quinasa 2 (TK2). EPA-OD. Promoter: Modis Therapeutics, Inc. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 02/11/2018. Commercial

GCP#05.01.020

A Multicenter, Randomized, Phase III Registration Trial of Transplantation of NiCord®, Ex Vivo Expanded, Umbilical Cord Blood-derived, Stem and Progenitor Cells, versus Unmanipulated Umbilical Cord Blood for Patients with Hematological Malignancies. Phase III. Promoter: Gamida-Cell LTD. Cell Therapy Technologies. PI: Isabel Badell Serra. Service: Oncology. Start: 04/10/2018. Commercial

AG348-C-008

Registro longitudinal internacional de deficiencia de piruvato cinasa / Pyruvate Kinase Deficiency Global Longitudinal Registry. EPA-SP. Promoter: Agios Pharmaceuticals, Inc. PI: Anna Ruiz Llobet. Service: Clinical haematology. Start: 03/10/2018. Commercial

EMR 200098_008 / MER-GRH-2009-01

Estudio observacional, prospectivo y multicéntrico a largo plazo en una cohorte de niños con talla baja nacidos pequeños para su edad gestacional (PEG) que han sido tratados con Saizen®. EPA-LA. Promoter: Merck KGaA. PI: Lourdes Ibañez Toda. Service: Endocrinology. Start: 25/09/2018. Commercial

CQGE031C2202

Estudio fase 2b de búsqueda de dosis, multicéntrico, aleatorizado, doble ciego, controlado con placebo para investigar la eficacia y la seguridad de ligelizumab (QGE031) en pacientes adolescentes con urticaria crónica espontánea (UCE). Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Montserrat Álvaro Lozano. Service: Allergy and clinical immunology. Start: 06/09/2018. Commercial

JCAR017-BCM-004

Estudio de fase Ib/II, multicéntrico, abierto, de un solo brazo y con varias cohortes para evaluar la seguridad y eficacia de JCAR017 en pacientes pediátricos con leucemia linfoblástica aguda de células B (LLA-B) y linfoma no Hodgkin de células B (LNH-B) recidivante/ resistente (r/r). Phase II. Promoter: Celgene International II S. à. r. l. PI: Susana Rives Solà. Service: Oncology. Start: 28/08/2018. Commercial

BP39056

Estudio de continuidad en dos partes, abierto, multicéntrico, para investigar la seguridad, la tolerabilidad, la farmacocinética, la farmacodinámica y la eficacia de R07034067 en lactantes con atrofia muscular espinal de tipo 1. Phase II. Promoter: F. Hoffmann- La Roche Ltd. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 06/08/2018. Commercial

DLA-ALT-2018-01

Estudio observacional, transversal y multicéntrico para evaluar la prevalencia de sensibilización a Alternaria alternata y Alt a 1 en los pacientes con rinitis o rinoconjuntivitis y/o asma alérgicas. Estudio PREVALENCIA. EPA-OD. Promoter: Diater Laboratorio de Diagnóstico y Aplicaciones Terapéuticas S. A. PI: Ana Mª Plaza Martín. Service: Allergy and clinical immunology. Start: 01/08/2018. Commercial

HC-0-H-1406

Infusión de soluciones de gelatina en pacientes pediátricos de hasta 12 años. GPS Study. EPA-SP. Promoter: B. Braun Melsungen AG. PI: Silvia Serrano Casabon. Service: Anesthesia. Start: 26/07/2018. Commercial

RG_15-114 (PHITI)

Paediatric Hepatic International Tumour Trial. Phase III. Promoter: University Of Birmingham. PI: Moira Garraus Oneca. Service: Oncology. Start: 25/07/2018. Non Commercial

BEB-13

Double-Blind, Randomised, Vehicle-Controlled, Phase III Efficacy and Safety Study with 24-Month Open-Label Follow-up of Oleogel-S10 in Patients with Inherited Epidermolysis Bullosa. Phase III. Promoter: AMRYT Research Limited. PI: Mº Asunción Vicente Villa. Service: Dermatology. Start: 16/07/2018. Commercial

ABÅ-CYSCARE II 2018

Estudio exploratorio para evaluar la eficacia del producto AB-CYSCARE en la variación de patógenos en infecciones urinarias recurrentes. Prod. Alimenticio. Promoter: AB-BIOTICS S. A. PI: Lluís Armat Tardiu. Service: Gynaecology and obstetrics. Start: 09/07/2018. Commercial

MNK14112096

Estudio multicéntrico, aleatorizado, de grupos paralelos, doble ciego, de dosis múltiples y controlado con placebo para evaluar la eficacia y la seguridad de MNK-1411 en varones de 4 a 8 años de edad con distrofia muscular de Duchenne. Phase II. Promoter: Mallinckrodt ARD Inc. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 29/06/2018. Commercial

54767414ALL2005

Ensayo abierto, multicéntrico, de fase 2 que evalúa la eficacia y seguridad de Daratumumab en pacientes pediátricos y jóvenes adultos entre ≥ 1 y <30 años con leucemia linfoblástica aguda o linfoma linfoblástico de precursores de células B y T en recaída o refractarios al tratamiento. Phase II. Promoter: Janssen-Cilag International NV. PI: Susana Rives Solà. Service: Oncology. Start: 20/06/2018. Commercial

CAIN457A2311

Ensayo aleatorizado, abierto, multicéntrico para evaluar la eficacia de secukinumab subcutáneo después de doce semanas de tratamiento y evaluar la seguridad, tolerabilidad y eficacia a largo plazo en pacientes de 6 a menos de 18 años de edad con psoriasis crónica en placas de moderada a grave. Phase III. Promoter: Novartis Farmacéutica, S. A. PI: Mº Asunción Vicente Villa. Service: Dermatology. Start: 08/06/2018. Commercial

NYADAPETRICS

Ensayo clínico fase I, piloto, doble-ciego, aleatorizado, controlado con placebo y enmascarado, para evaluar la tolerabilidad y inmunogenicidad del probiótico Nyaditum Resae® administrado en población pediátrica en contacto con la tuberculosis con o sin infección tuberculosa latente. Prod.

Alimenticio. Promoter: Manresana de Micobacteriología S. L. PI: Antoni Noguera Julián. Service: Paediatrics. Start: 28/05/2018. Commercial

AI444-423

Ensayo abierto y con un solo grupo para evaluar la farmacocinética, la seguridad y la eficacia de daclatasvir (DCV) en combinación con sofosbuvir (SOF) en niños de entre 3 y menos de 18 años con infección por los genotipos del 1 al 6 del virus de la hepatitis C crónica (HCC). Phase II. Promoter: Bristol-Myers Squibb International Corporation (BMSIC). PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 15/05/2018. Commercial

IntReALL HR 2010

A randomized Phase III Study Conducted by the Resistant Disease Committee of the International BFM Study Group. Phase III. Promoter: Sociedad Española de Hematología y Oncología Pediátricas. PI: Susana Rives Solà. Service: Oncology. Start: 23/03/2018. Non Commercial

BP39055

A two part seamless multi-center randomized placebo controlled study to investigate the safety, tolerability, pharmacokinetics, pharmacodynamics and efficacy of RO7034067 in type 2 and 3 spinal muscular atrophy patients. Phase II. Promoter: F. Hoffmann- La Roche Ltd. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 14/03/2018. Commercial

CMX001-999

Un estudio abierto de dos brazos, paralelo, aleatorio, randomizado, multicentral para evaluar la seguridad, tolerabilidad y la actividad antiviral de BCV versus el cuidado habitual para el tratamiento de las infecciones de adenovirus en los receptores de trasplantes de células

madre hematopoiética pediátrica. Phase II. Promoter: Chimerix, Inc. PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 13/03/2018. Commercial

BAY-FAC-2017-01

Estudio de fase IV multinacional para evaluar el patrón de tratamiento en la "vida real" en pacientes con hemofilia A tratados previamente que reciben KOVALTRY (octocog alfa) para la profilaxis habitual. TAURUS. EPA-SP. Promoter: Bayer Hispania, S. L. U. PI: Ruben Berrueto Moreno. Service: Clinical haematology. Start: 07/03/2018. Commercial

ALXN1210-aHUS-312

A Phase 3, Open-Label, Multicenter Study of ALXN1210 in Children and Adolescents with Atypical Hemolytic Uremic Syndrome (aHUS). Phase III. Promoter: Alexion Pharmaceuticals Inc. PI: Alvaro Madrid Aris. Service: Nephrology. Start: 06/03/2018. Commercial

Y-MABS 201

Ensayo de Fase pivotal 2 del anticuerpo Naxitamab (hu3F8) y factor estimulante de colonias de granulocitos y macrófagos (GM-CSF) en pacientes con Neuroblastoma de alto riesgo con enfermedad refractaria primaria o con respuesta incompleta al tratamiento de rescate en el hueso y / o médula ósea. Phase III. Promoter: Y-mAbs Therapeutics A/S. PI: Jaume Mora Graupera. Service: Oncology. Start: 05/03/2018. Commercial

CPZP034X2203 / VEG116731

Estudio fase II de pazopanib (GW786034, N° NSC 737754) en niños, adolescentes y adultos jóvenes con tumores sólidos refractarios. Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Jaume Mora Graupera. Service: Oncology. Start: 21/02/2018. Commercial

ITCC-059

A phase I/II study of Inotuzumab Ozogamicin as a single agent and in combination with chemotherapy for pediatric CD22-positive relapsed/refractory Acute Lymphoblastic Leukemia Study ITCC-059. Phase I. Promoter: Erasmus MC. PI: Susana Rives Solà. Service: Oncology. Start: 15/02/2018. Non Commercial

HSJD-HR-NB-DHA

Interventional, open label, single arm, institutional study to assess Docosahexaenoic acid triglyceride (DHA-TG) supplementation combined with induction chemotherapy in patients with high-risk neuroblastoma. Prod. Alimenticio. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Jaume Mora Graupera. Service: Oncology. Start: 12/02/2018. Non Commercial

TAMDMD

Tamoxifen in Duchenne muscular dystrophy: A multicenter, randomised, double-blind, placebo-controlled, phase 3 safety and efficacy 48-week trial. Phase III. Promoter: Universitätskinderspital beider Basel (UKBB). PI: Andrés Nascimento Osorio. Service: Neurology. Start: 02/02/2018. Non Commercial

602041 NEOVANC

Estudio multicéntrico aleatorizado, abierto, fase IIb para comparar la eficacia, seguridad y farmacocinética (PK) de la dosis óptima y la dosis estándar de vancomicina en neonatos y niños de ≤ a 90 días de vida con sospecha de sepsis o sepsis confirmada por gérmenes gram-positivos. NeoVanc. Phase II. Promoter: Fondazione Penta Onlus. PI: Ana Alarcon Allen. Service: Neonatology. Start: 30/01/2018. Non Commercial

XLH-QOL-2017-02

Carga de la enfermedad de la hipofosfatemia ligada al cromosoma X. No EPA. Promoter: KYOW KIRIN FARMACÉUTICA, S. L. U. PI: Silvia Marin Del Barrio. Service: Endocrinology. Start: 17/01/2018. Commercial

SED-INS-2017-01

Registro Nacional de Pacientes con Diabetes tipo 1. EPA-OD. Promoter: Sociedad Española de Diabetes. PI: Roque Cardona Hernandez. Service: Endocrinology. Start: 15/01/2018. Non Commercial

ZX008-1503

Ensayo de ampliación sin enmascaramiento para evaluar la seguridad a largo plazo de la solución oral ZX008 (clorhidrato de fenfluramina) como tratamiento complementario en niños y adultos jóvenes con síndrome de Dravet. Phase III. Promoter: Zogenix, Inc. PI: Alia Ramírez Camacho. Service: Neurology. Start: 12/01/2018. Commercial

EuroNet-PHL-C2

Second International Inter-Group Study for Classical Hodgkin's Lymphoma in Children and Adolescents. Phase III. Promoter: Sociedad Española de Hematología y Oncología Pediátricas. PI: Veronica Celis Passini. Service: Oncology. Start: 12/01/2018. Non Commercial

GS-US-205-1850

Ensayo aleatorizado y doble ciego de fase IIb para evaluar la seguridad y la eficacia de 2 regímenes de tratamiento con Aztreonam 75 mg polvo y disolvente para solución para inhalación por nebulizador / Aztreonam solución para inhalación (AZLI) en pacientes pediátricos con fibrosis quística (FQ) e infección/colonización de las vías respiratorias por Pseudomonas

aeruginosa (PA) de nueva aparición. Phase III. Promoter: Gilead Sciences, Inc. PI: Jordi Costa i Colomer. Service: Paediatrics. Start: 21/12/2017. Commercial

ESTEVE-SANF-201

Phase I/II safety, tolerability and initial efficacy study of adeno-associated viral vector serotype 9 containing human sulfatidase gene after intracerebroventricular administration to patients with MPSIIIa". (ESTEVE-SANF-201). Phase II. Promoter: Esteve Pharmaceuticals, S. A. PI: Mercè Pineda Marfà. Service: Neurology. Start: 04/12/2017. Commercial

NI7088-3908

Seguridad y eficacia de turoctocog alfa pegol (N8-GP) en pacientes con hemofilia A no tratados previamente. Phase III. Promoter: Novo Nordisk a/s. PI: Ruben Berrueto Moreno. Service: Clinical haematology. Start: 23/11/2017. Commercial

CP-4-006

A phase 3, open-label, randomized, multicenter, 12 months, efficacy and safety study of weekly MOD-4023 compared to daily Genotropin - therapy in pre-pubertal children with growth hormone deficiency. Phase III. Promoter: OPKO Biologics Ltd. PI: Lourdes Ibáñez Toda. Service: Endocrinology. Start: 10/11/2017. Commercial

BMN111-301

A Phase 3 Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Evaluate the Efficacy and Safety of BMN 111 in Children with Achondroplasia. Phase III. Promoter: BioMarin Pharmaceutical Inc. PI: Rosendo Ullot Font. Service: Orthopaedics and traumatology. Start: 10/11/2017. Commercial

ET-13-002

SIOP Ependimoma II - Programa clínico internacional para el diagnóstico y tratamiento de niños, adolescentes y adultos jóvenes con ependimoma. Phase III. Promoter: Sociedad Española de Hematología y Oncología Pediátricas. PI: Ofelia Cruz Martínez. Service: Oncology. Start: 06/11/2017. Non Commercial

NI-0501-06

Estudio piloto abierto, multicéntrico y de un solo grupo para evaluar la seguridad, tolerabilidad, farmacocinética y eficacia de administraciones intravenosas de NI-0501, un anticuerpo monoclonal anti-interferón gamma (anti-IFN?), en pacientes con artritis idiopática juvenil de inicio sistémico (AIJS) que desarrollan síndrome de activación del macrófago/ HLH secundaria (SAM/HLHs). Phase II. Promoter: Swedish Orphan Biovitrum AB (publ). PI: Jordi Antón López. Service: Paediatrics. Start: 06/11/2017. Commercial

M16-123

An Open-Label, Multicenter Study to Evaluate the Pharmacokinetics, Safety, and Efficacy of Glecaprevir/Pibrentasvir in Pediatric Subjects with Genotypes 1 ? 6 Chronic Hepatitis C Virus (HCV) Infection. Phase III. Promoter: "AbbVie Deutschland GmbH & Co. KG ""Abbvie"". PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 03/11/2017. Commercial

FSJD-TRACIP-2017

Tratamiento del crecimiento intrauterino restringido precoz con heparina de bajo peso molecular: Ensayo Clínico Randomizado (TRACIP). Phase III. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Edurne Mazarico Gallego. Service: Gynaecology and obstetrics. Start: 02/11/2017. Non Commercial

EFC14153

Estudio aleatorizado, doble ciego, controlado con placebo, de grupos paralelos para evaluar la eficacia y seguridad de Dupilumab en niños de 6 a <12 años con asma persistente no controlada. Phase III. Promoter: Sanofi-Aventis S. A. PI: María Cols Roig. Service: Paediatrics. Start: 18/10/2017. Commercial

MK-6072-0001

Ensayo clínico aleatorizado, doble ciego y controlado con placebo para evaluar la seguridad, la tolerabilidad, la farmacocinética y la eficacia de una única infusión de bezlotoxumab (MK-6072, anticuerpo monoclonal humano frente a la toxina B de *C. difficile*) en niños y adolescentes de 1 a menos de 18 años que reciben tratamiento antibacteriano para la infección por *C. difficile* (MODIFY III). Phase III. Promoter: Merck, Sharp & Dohme de España. S. A. PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 09/10/2017. Commercial

FAE-PRO-2015-01

Registro de Hemangiomas de la AEDV. EPA-OD. Promoter: Fundación Piel Sana Academia Española de Dermatología y Venereología. PI: Mº Asunción Vicente Villa. Service: Dermatology. Start: 03/10/2017. Non Commercial

WN40227 (CN001016)

Estudio aleatorizado, doble ciego y controlado con placebo para evaluar la eficacia, la seguridad y la tolerabilidad de BMS-986089 en niños ambulatorios con distrofia muscular de Duchenne. Phase III. Promoter: F. Hoffmann- La Roche Ltd. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 28/09/2017. Commercial

FSJD-RTB-2015

Ensayo clínico fase I, unicéntrico, abierto y de escalado de dosis, para evaluar la seguridad y la actividad del adenovirus oncolítico VCN-01 en pacientes con retinoblastoma refractario. Phase I. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Jaume Català Mora. Service: Ophthalmology. Start: 06/09/2017. Non Commercial

MK7625A-035

Ensayo clínico fase 2, multicéntrico, aleatorizado, doble ciego y controlado con comparador activo para evaluar la seguridad y la eficacia de ceftolozano/tazobactam (MK-7625A) más Metronidazol versus Meropenem en sujetos pediátricos con infección intraabdominal complicada. Phase II. Promoter: Merck, Sharp & Dohme de España. S. A. PI: Antoni Noguera Julián. Service: Paediatrics. Start: 31/08/2017. Commercial

NOPHO-DBH AML 2012

Research study for treatment of children and adolescents with acute myeloid leukaemia 0-18 years. Phase III. Promoter: Sociedad Española de Hematología y Oncología Pediátricas. PI: Susana Rives Solà. Service: Oncology. Start: 24/08/2017. Non Commercial

CV185-362

Estudio prospectivo, aleatorizado, abierto y multicéntrico de la seguridad y farmacocinética de Apixaban comparado con un antagonista de la vitamina K o HBPM en sujetos pediátricos con cardiopatías congénitas o adquiridas que requieren anticoagulación crónica para la prevención del tromboembolismo. Phase II. Promoter: Bristol-Myers Squibb International Corporation (BMSIC). PI: Ruben Berrueco Moreno. Service:

Clinical haematology. Start: 01/08/2017. Commercial

4045-301

Estudio doble ciego, controlado con placebo y multicéntrico con una extensión abierta para evaluar la eficacia y la seguridad de SRP-4045 y SRP-4053 en pacientes con distrofia muscular de Duchenne. Phase III. Promoter: Sarepta Therapeutics, Inc. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 19/07/2017. Commercial

CART19-BE-01

Estudio piloto de la infusión de linfocitos T autólogos modificados genéticamente para expresar anti-CD19 en pacientes con leucemia o linfoma CD19+ resistente o refractario a tratamiento. Phase I. Promoter: Hospital Clínic Barcelona. PI: Susana Rives Solà. Service: Oncology. Start: 04/07/2017. Non Commercial

NF1-EXCEL

Efecto de la lamotrigina en déficits cognitivos asociados con la neurofibromatosis tipo 1: un estudio de fase II aleatorio, controlado con placebo y llevado a cabo en diversos centros (NF1-EXCEL). Phase II. Promoter: Erasmus MC. PI: Federico Ramos. Service: Neurology. Start: 03/07/2017. Non Commercial

I1F-MC-RHCD

Estudio multicéntrico, doble ciego, aleatorizado, comparado con placebo, en el que se evalúan la seguridad, la tolerabilidad y la eficacia de ixekizumab en pacientes con psoriasis en placas de moderada a grave y entre 6 y < 18 años. Phase III. Promoter: Lilly S. A. PI: Mº Asunción Vicente Villa. Service: Dermatology. Start: 30/06/2017. Commercial

PHA-HEM-2017-01

Estudio de mercado sobre los diferentes tratamientos para la hemofilia A en la práctica clínica habitual. EPA-OD. Promoter: Phamax AG. PI: Ruben Berrueco Moreno. Service: Clinical haematology. Start: 16/06/2017. Commercial

CA209744

Ensayo de fase II abierto, basado en riesgo, adaptado a la respuesta, de nivolumab + brentuximab vedotina [N+Bv] en niños, adolescentes y adultos jóvenes con linfoma de Hodgkin clásico (LHc) CD30+ en recidiva/refractario (R/R) después del fracaso del tratamiento de primera línea seguido de brentuximab+bendamustine (Bv+B) en participantes con una respuesta subóptima bendamustine (Bv+B) for participants with a suboptimal response. CheckMate 744: CHECKpoint pathway and nivolumab clinical Trial Evaluation. Phase II. Promoter: Bristol-Myers Squibb International Corporation (BMSIC). PI: Jaume Mora Graupera. Service: Oncology. Start: 14/06/2017. Commercial

UX007G-CL202

Estudio de extensión abierto para evaluar la seguridad y eficacia a largo plazo de UX007 en sujetos con síndrome de deficiencia del transportador de glucosa de tipo 1 (SD Glut1). Phase II. Promoter: Ultragenyx Pharmaceutical, Inc. PI: Mª Angels García Cazorla. Service: Neurology. Start: 05/06/2017. Commercial

FSJD-PMM2-2016

Ensayo clínico fase II, para evaluar la efectividad y la seguridad de la acetazolamida en el tratamiento del síndrome cerebeloso en pacientes con deficiencia de PMM2-CDG. Phase II. Promoter: Fundació Privada per a la

Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Mercedes Serrano Gimaré. Service: Neurology. Start: 02/06/2017. Non Commercial

DSC/14/2357/48

Estudio multicentrico, aleatorizado, doble ciego, controlado con placebo para evaluar la eficacia y la seguridad de givinostat en pacientes ambulantes con distrofia muscular de duchenne [DMD]. Phase III. Promoter: Italfarmaco,S. A. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 31/05/2017. Commercial

CAIN457F2304

Estudio aleatorizado, doble ciego, controlado con placebo, compuesto de tres partes para investigar la eficacia y seguridad del tratamiento con secukinumab en subtipos de artritis idiopática juvenil de la artritis psoriásica y artritis relacionada con entesitis. Phase I. Promoter: Novartis Farmacéutica, S. A. PI: Jordi Antón López. Service: Paediatrics. Start: 28/05/2017. Commercial

CA209-908

Ensayo clínico fase Ib/II de nivolumab en monoterapia y nivolumab en combinación con ipilimumab en sujetos pediátricos con neoplasias malignas primarias del SNC de alto grado. Phase II. Promoter: Bristol-Myers Squibb International Corporation (BMSIC). PI: Jaume Mora Graupera. Service: Oncology. Start: 22/05/2017. Commercial

CL010_168

A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study to Evaluate the Safety and Efficacy of CCX168 (Avacopan) in Patients with Anti-Neutrophil Cytoplasmic Antibody (ANCA)-Associated Vasculitis Treated Concomitantly with Rituximab or Cyclophosphamide/

Azathioprine. Phase III. Promoter: Chemocentryx. PI: Jordi Antón López. Service: Paediatrics. Start: 19/05/2017. Commercial

GEIS-39

Phase II trial of nab-paclitaxel for the treatment of desmoid tumors and multiply relapsed/refractory desmoplastic small round cell tumors and Ewing sarcoma. Phase II. Promoter: Grupo Español de Investigación en Sarcoma Grupo GEIS. PI: Jaume Mora Graupera. Service: Oncology. Start: 18/05/2017. Non Commercial

SNT-III-012

A Phase III Double-blind, Randomized, Placebo-Controlled Study assessing the Efficacy, Safety and Tolerability of Idebenone in Patients with Duchenne Muscular Dystrophy Receiving Glucocorticoidsteroids - SIDEROS. Phase III. Promoter: Santhera Pharmaceuticals (Switzerland) Ltd., PI: Andrés Nascimento Osorio. Service: Neurology. Start: 12/05/2017. Commercial

HOSPIGRIP-2016

Estudio de la infección por virus influenza en niños hospitalizados en España en dos estaciones gripales consecutivas. Análisis de costos médicos directos. No EPA. Promoter: Asociación Instituto Biodonostia. PI: Juan José García García. Service: Paediatrics. Start: 10/05/2017. Non Commercial

H2020-PHC-18-2015-667224

Efecto del Allopurinol en pacientes con encefalopatía hipóxico-isquémica tratados con hipotermia. ALBINO ensayo clínico multicéntrico, aleatorizado, ciego, controlado con placebo. Phase III. Promoter: Instituto de investigación Sanitaria Hospital La Fe. PI: Marta Camprubi Camprubi. Service:

Neonatology. Start: 05/05/2017. Non Commercial

REACT RCT

Evaluation of Real Time Continuous Glucose Monitoring in the very preterm infant. Prod. Sanitario. Promoter: University of Cambridge. PI: Isabel Iglesias Platas. Service: Neonatology. Start: 04/05/2017. Non Commercial

CCTL019B2001X

Protocolo de tratamiento expandido de CTL019 para pacientes pediátricos/adultos jóvenes con leucemia linfoblástica aguda en recaída/refractaria. Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Susana Rives Solà. Service: Oncology. Start: 21/04/2017. Commercial

LCH-IV-042011

LCH-IV International Collaborative Treatment Protocol for Children and Adolescents with Langerhans Cell Histiocytosis. Phase III. Promoter: Sociedad Española de Hematología y Oncología Pediátricas. PI: Vicente Santa-María López. Service: Oncology. Start: 30/03/2017. Non Commercial

E2007-G000-311

Estudio abierto y multicéntrico con una fase de extensión para evaluar la seguridad, la tolerabilidad y la relación exposición-eficacia de perampanel en suspensión oral cuando se administra como tratamiento complementario en sujetos pediátricos (de 4 a menos de 12 años) con crisis de inicio parcial mal controladas o crisis tonicoclonílicas generalizadas primarias. Phase III. Promoter: Eisai Limited. PI: María Victoria San Antonio Arce. Service: Neurology. Start: 22/03/2017. Commercial

GWEP1521

Estudio aleatorizado doble ciego controlado con placebo para investigar la eficacia y la seguridad del cannabidiol (GWP42003-P, CBD) como terapia complementaria en pacientes con complejo de esclerosis tuberosa que sufren crisis epilépticas inadecuadamente controladas. Phase III. Promoter: GW Research. PI: Federico Ramos. Service: Neurology. Start: 20/02/2017. Commercial

NN7999-3895

Seguridad y eficacia de nonacog beta pegol (N9-GP) en pacientes con hemofilia B no tratados previamente. Phase III. Promoter: Novo Nordisk a/s. PI: Ruben Berueco Moreno. Service: Clinical haematology. Start: 08/02/2017. Commercial

15-007

A Phase 3, Randomized, Adaptive Study Comparing the Efficacy and Safety of Defibrotide vs Best Supportive Care in the Prevention of Hepatic Veno-Occlusive Disease in Adult and Pediatric Patients Undergoing Hematopoietic Stem Cell Transplant. Phase III. Promoter: Jazz Pharmaceuticals, INC. PI: Isabel Badell Serra. Service: Oncology. Start: 30/12/2016. Commercial

PURPOSE / ABR54654

Ensayo controlado con placebo en sujetos con alto riesgo para la psicosis comparado con ácidos grasos omega-3 en Europa. Phase III. Promoter: University Medical Center Utrecht. PI: Montserrat Dolz Abadia. Service: Psychiatry and psychology. Start: 05/12/2016. Non Commercial

EFC14028

Estudio de fase III aleatorizado, multicéntrico, multinacional y doble ciego

que compara la eficacia y la seguridad de infusiones bisemanales de neoGAA (GZ402666) y alglucosidasa alfa en pacientes con enfermedad de Pompe de inicio tardío sin tratamiento previo. Phase III. Promoter: Sanofi-Aventis S. A. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 30/11/2016. Commercial

11/0499 (MYPAN)

Ensayo clínico abierto controlado y aleatorizado de micofenolato mofetil (MMF) frente a ciclofosfamida para inducir la remisión en poliartritis nodosa juvenil (PAN). Phase III. Promoter: University College London. PI: Jordi Antón López. Service: Paediatrics. Start: 25/11/2016. Non Commercial

111-901

Estudio clínico multicéntrico y multinacional de evaluación sobre pacientes pediátricos con accondroplasia. No EPA. Promoter: BioMarin Pharmaceutical Inc. PI: Rosendo Ullot Font. Service: Orthopaedics and traumatology. Start: 23/11/2016. Commercial

DRI13926

Estudio abierto, secuencial, de búsqueda de dosis ascendentes y repetidas de sarilumab administrado con inyección subcutánea (s.c.) a niños y adolescentes con edades comprendidas entre 1 y 17 años con artritis idiopática juvenil sistémica (AIJS), seguido de una fase de extensión. Phase II. Promoter: Sanofi-Aventis S. A. PI: Jordi Antón López. Service: Paediatrics. Start: 25/10/2016. Commercial

FSJD-ISON-2016

Ensayo clínico abierto fase IIA de estudio de la absorción de una suspensión de isoniazida a 10 mg/mL para el tratamiento

de la infección tuberculosa en pacientes menores de 6 años. Phase II. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Antoni Noguera Julián. Service: Paediatrics. Start: 10/10/2016. Non Commercial

54179060LYM3003

A Randomized, Open-label, Safety and Efficacy Study of Ibrutinib in Pediatric and Young Adult Patients With Relapsed or Refractory Mature B-cell non-Hodgkin Lymphoma. Phase III. Promoter: Janssen Research and development LCC. PI: Veronica Celis Passini. Service: Oncology. Start: 05/10/2016. Commercial

WA28029

Estudio fase IV para evaluar la disminución de la frecuencia de la dosis en pacientes con artritis idiopática juvenil sistémica activa (aijs) que experimentan anomalías de laboratorio durante el tratamiento con Tocilizumab. Phase IV. Promoter: F. Hoffmann- La Roche Ltd. PI: Jordi Antón López. Service: Paediatrics. Start: 24/08/2016. Commercial

PENTA 20

Ensayo aleatorizado de tratamiento antirretroviral con dolutegravir (DTG) comparado con el tratamiento estándar (TE) en niños con infección VIH que iniciaron tratamiento de primera línea o de segunda línea. Phase III. Promoter: Fondazione Penta Onlus. PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 23/08/2016. Non Commercial

BRI-EBP-2015-01

Prácticas Europeas para el manejo de la punción dural accidental en obstetricia (Estudio EPIMAP Obstetrics). EPA-SP. Promoter: European Society of Anaesthesiology. PI: Alejandro Romero

Fernández. Service: Anesthesia. Start: 22/07/2016. Non Commercial

ALXN1101-MCD-202

Estudio abierto, multicéntrico y multinacional, de fase II/III, para evaluar la eficacia y la seguridad de ALXN1101 en recién nacidos con déficit del cofactor molibdeno (DCMo) de tipo A. Phase III. Promoter: Alexion Pharma Spain, S. L. PI: Carme Fons Estupiña. Service: Neurology. Start: 28/06/2016. Commercial

MER-ACA-2015-01

Evaluación del coste-efectividad del tratamiento con inmunoterapia en pacientes diagnosticados de asma con o sin rino-conjuntivitis por sensibilización a ácaros en España. EPA-SP. Promoter: Merck S. L. U. PI: Ana Mª Plaza Martín. Service: Allergy and clinical immunology. Start: 16/06/2016. Commercial

FSJD-DIPG-DC

Phase Ib Clinical Trial on the Safety of Immunotherapy With Autologous Dendritic Cells Primed With Lysate Allogeneic Tumor Lines in Patients With Diffuse Intrinsic Pontine Glioma (DIPG). Phase I. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Andrés Morales La Madrid. Service: Oncology. Start: 06/06/2016. Non Commercial

IM101240

"Registro observacional de Abatacept en pacientes con Artritis Idiopática Juvenil". EPA-LA. Promoter: Bristol-Myers Squibb, S. A. U. PI: Jordi Antón López. Service: Paediatrics. Start: 03/06/2016. Commercial

LIN-DOX-2015-01

Estudio sobre las condiciones de uso de Cariban® y de otros antieméticos en el

tratamiento de las náuseas y vómitos en el embarazo: Estudio prospectivo observacional longitudinal. EPA-SP. Promoter: Laboratorios Inibsa, S. A. PI: Jose María Boguña Ponsa. Service: Gynaecology and obstetrics. Start: 02/06/2016. Commercial

PR314/15

Evaluación mediante hormona antimulleriana (AMH) de la reserva ovárica tras el tratamiento de los endometriomas mediante esclerosis con alcohol o cirugía. Estudio Piloto. No EPA. Promoter: García Tejedor, Amparo. PI: Santiago González Nuñez. Service: Gynaecology and obstetrics. Start: 01/06/2016. Non Commercial

ISIS396443-CS11

Estudio de extensión abierto para pacientes con atrofia muscular espinal que han participado previamente en estudios experimentales de ISIS 396443. Phase III. Promoter: Ionis Pharmaceuticals, Inc. PI: Andrés Nascimento Osorio. Service: Neurology. Start: 30/05/2016. Commercial

ALX-HPP-501

Registro observacional, longitudinal, prospectivo, a largo plazo de Pacientes con Hipofosfatemia (HPP). EPA-SP. Promoter: Alexion Pharmaceuticals Inc. PI: Rosa Bou i Torrent. Service: Paediatrics. Start: 17/05/2016. Commercial

20110261

Estudio Fase 1, multicéntrico, abierto de de-escalado de dosis para evaluar la seguridad y eficacia de Talimogene Laherparepvec en pacientes pediátricos con tumores avanzados que no sean del sistema nervioso central y que sean tratables con inyección directa. Phase I. Promoter: Amgen Inc. PI: Jaume Mora



Graupera. Service: Oncology. Start: 11/05/2016. Commercial

DRI13925

Estudio abierto, secuencial, de búsqueda de dosis ascendentes y repetidas de sarilumab administrado con inyección subcutánea (s. c.) a niños y adolescentes con edades comprendidas entre 2 y 17 años con artritis idiopática juvenil de curso poliarticular (AIJP), seguido de una fase de extensión. Phase II. Promoter: Sanofi-Aventis S. A. PI: Jordi Antón López. Service: Paediatrics. Start: 09/05/2016. Commercial

EFC13957

EDITION JUNIOR ? ?Estudio de 6 Meses, Multicéntrico, Aleatorizado, Abierto, de 2 Brazos Paralelos, para Comparar Eficacia y Seguridad de una Nueva Formulación de Insulina Glargina y Lantus® Inyectada Una Vez al Día en Niños y Adolescentes entre 6-17 años con Diabetes Mellitus Tipo 1, con un Periodo de Extensión de Seguridad de 6 meses?. Phase III. Promoter: Sanofi-Aventis S. A. PI: Larisa Suarez Ortega. Service: Endocrinology. Start: 06/05/2016. Commercial

GTI1503

Ensayo multicéntrico, abierto y con un solo grupo para evaluar la eficacia, la farmacocinética, la seguridad y la tolerabilidad de IGSC al 20 % en sujetos con inmunodeficiencia primaria. Phase III. Promoter: Instituto Grifols, S. A. PI: Laia Alsina Manrique de Lara. Service: Allergy and clinical immunology. Start: 05/05/2016. Commercial

TBTC S31-A5349

Ensayo clínico fase III, randomizado, abierto y controlado para evaluar el acortamiento del tratamiento de la tuberculosis pulmonar en regímenes con rifapentina. Phase III. Promoter:

Tuberculosis Trial Consortium. PI: Antoni Noguera Julián. Service: Paediatrics. Start: 28/04/2016. Non Commercial

SIOP - PNET 5 MB - LR

Estudio prospectivo internacional en niños mayores de 3 a 5 años con meduloblastoma de riesgo estándar clínico de perfil biológico de bajo riesgo. Phase II. Promoter: Sociedad Española de Hematología y Oncología Pediátricas. PI: Ofelia Cruz Martínez. Service: Oncology. Start: 25/04/2016. Non Commercial

M14-748

Estudio abierto, multicéntrico para evaluar la farmacocinética, la seguridad y la eficacia de ombitasvir (OBV), paritaprevir (PTV), ritonavir (RTV), con o sin dasabuvir (DSV) y con o sin ribavirina (RBV) en pacientes pediátricos con infección crónica por el virus de la hepatitis C (VHC) genotipo 1 o 4 (ZIRCON). Phase III. Promoter: Abbvie Spain, S. L. U. PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 17/02/2016. Commercial

FSJD-PIOSPIMET-2015

Ensayo clínico prospectivo, abierto, aleatorizado, con dos grupos de pacientes para evaluar la eficacia y la seguridad de la combinación de Etilín-estradiol y levonorgestrel versus la combinación de pioglitazona, espironolactona y metformina a dosis bajas en adolescentes con hiperandrogenismo ovárico e hiperinsulinismo: efectos sobre la función ovulatoria, parámetros de inflamación crónica, marcadores de evolución y efectividad del tratamiento, y de desarrollo de diabetes tipo 2. Phase III. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Lourdes Ibañez Toda. Service: Endocrinology. Start: 11/02/2016. Non Commercial

Ensayo clínico fase III, randomizado, abierto y controlado para evaluar el acortamiento del tratamiento de la tuberculosis pulmonar en regímenes con rifapentina. Phase III. Promoter:

M11-001

Un estudio observacional, no intervencionista, multicéntrico y multinacional de pacientes con Síndrome Hemolítico Urémico Atípico (registro de SHUa). EPA-LA. Promoter: Alexion Pharmaceuticals Inc. PI: María Ramos Cebrián. Service: Nephrology. Start: 25/01/2016. Commercial

UX007G-CL201

Un ensayo clínico doble ciego, controlado con placebo, de grupos paralelos para evaluar la seguridad y la eficacia de UX007 en sujetos con síndrome por deficiencia del transportador de glucosa de tipo 1. Phase II. Promoter: Ultragenyx Pharmaceutical, Inc. PI: Mª Angels García Cazorla. Service: Neurology. Start: 07/01/2016. Commercial

A0081042

Estudio multicéntrico, de grupos paralelos, en doble ciego y controlado con placebo, para evaluar la eficacia y la seguridad de la Pregabalina como tratamiento adyuvante en niños de 1 mes a menos de 4 años de edad con crisis epilépticas parciales. Phase III. Promoter: PFIZER INC. PI: María Victoria San Antonio Arce. Service: Neurology. Start: 04/01/2016. Commercial

CCTL019A2205B

Seguimiento a largo plazo (LTFU) de pacientes tratados con la terapia celular CART dirigida a CD19 basada en vectores lentivirales. Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Susana Rives Solà. Service: Oncology. Start: 22/12/2015. Commercial

CCTL019B2202

Ensayo de fase II, de un solo grupo, multicéntrico, para determinar la eficacia y la seguridad de CTL019 en pacientes

pediátricos con leucemia linfoblástica aguda de células B en recaída o refractaria. Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Susana Rives Solà. Service: Oncology. Start: 21/12/2015. Commercial

PENTA 17

Estrategia para el mantenimiento de la supresión del VIH en niños con elvitegravir + darunavir/ritonavir. Phase II. Promoter: Fondazione Penta Onlus. PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 09/12/2015. Non Commercial

SJD-RGH-2015-01

Tratamiento con hormona de crecimiento recombinante (rGH) en pacientes con déficit de GH controlados en el Hospital Sant Joan de Déu: Análisis de marcadores precoces de buena respuesta de utilidad en la práctica clínica. EPA-OD. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Marta Ramon Krauel. Service: Endocrinology. Start: 26/10/2015. Non Commercial

CAIN457A2310

Ensayo multicéntrico, aleatorizado, doble ciego, controlado con placebo y fármaco activo para demostrar la eficacia de secukinumab subcutáneo en comparación con placebo y etanercept (en un brazo simple ciego) después de doce semanas de tratamiento y evaluar la seguridad, la tolerabilidad y la eficacia a largo plazo en pacientes de 6 a menos de 18 años de edad con psoriasis en placas crónica grave. Phase III. Promoter: Novartis Farmacéutica, S. A. PI: Antonia González Enseñat. Service: Dermatology. Start: 15/10/2015. Commercial

1645-CI-057

Recién nacidos con edad gestacional extremadamente baja asignados

al azar, a ciegas, para ser resucitados resucitado con un 21% frente al 60% de oxígeno: influencia sobre la mortalidad y las enfermedades crónicas en el período neonatal. Phase III. Promoter: Instituto de investigación Sanitaria Hospital La Fe. PI: Martín Iriondo Sanz. Service: Neonatology. Start: 06/10/2015. Non Commercial

AZA-JMML-001

Estudio de Fase 2, multicéntrico, abierto para evaluar la farmacocinética, farmacodinámica, seguridad y actividad de azacitidina y para comparar azacitidina con los controles históricos en sujetos pediátricos con nuevo diagnóstico de síndrome mielodisplásico avanzado o leucemia mielomonocítica juvenil antes de trasplante de células madre hematopoyéticas. Phase II. Promoter: Celgene International II S. à. r. l. PI: Susana Rives Solà. Service: Oncology. Start: 21/09/2015. Commercial

SCI-SPAI-2015-01

Estudio PID-RSV: Estudio epidemiológico sobre la incidencia de infecciones respiratorias agudas (IRA) causadas por el virus respiratorio sincitial (VRS) que requieren hospitalización en poblaciones pediátricas con inmunodeficiencia primaria (IDP). No EPA. Promoter: Abbvie Spain, S. L. U. PI: Laia Alsina Manrique de Lara. Service: Allergy and clinical immunology. Start: 04/09/2015. Commercial

PTC124-GD-021e-CF

Estudio de extensión de fase 3 de ataluren (ptc124) em pacientes con fibrosis quística mediada por mutación terminadora. Phase III. Promoter: PTC Therapeutics, Inc. PI: Jordi Costa i Colomer. Service: Paediatrics. Start: 28/07/2015. Commercial

BAY59-7939/17992

Ensayo de dosis única para evaluar la formulación de rivaroxaban en polvo

seco para suspensión oral, en niños de 6 meses a 12 años con trombosis previa. Phase I. Promoter: Bayer HealthCare AG. PI: Ruben Berrueco Moreno. Service: Clinical haematology. Start: 16/07/2015. Commercial

MK5592-097

Estudio de la seguridad, tolerabilidad y farmacocinética de dos formulaciones de posaconazol (POS), por vía intravenosa (IV) y en polvo para suspensión oral, en pacientes pediátricos inmunodeprimidos con neutropenia. Phase I. Promoter: Merck, Sharp & Dohme de España. S. A. PI: Clàudia Fortuny Guasch. Service: Paediatrics. Start: 07/07/2015. Commercial

FSJ-ADE-2015-01

Estudio multicéntrico retrospectivo-prospectivo nacional del valor de los igras en el diagnóstico de la adenitis por micobacterias no tuberculosas y de sus distintas aproximaciones terapéuticas. No EPA. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Antoni Noguera Julián. Service: Paediatrics. Start: 01/07/2015. Non Commercial

ORP-CYS-2014-01 (E-HOD-CSP)

Protocolo de vigilancia de Cystadane de Orphan Europe, en colaboración con la Red Europea y registro para las homocistinurias y defectos de metilación (E-HOD). EPA-LA. Promoter: Centro de Investigación Biomédica en Red (CIBER) Antiguo CIBERSAM. PI: Silvia María Meavilla Olivas. Service: Neurology. Start: 27/05/2015. Non Commercial

IGR2012/1883

Estudio fase I-II de Vinblastina en combinación con Nilotinib en niños, adolescentes, y adultos jóvenes con glioma de bajo grado refractorio o recurrente. Phase II. Promoter: Gustave Roussy. PI:

Ofelia Cruz Martínez. Service: Oncology. Start: 14/05/2015. Non Commercial

RG 13-277

International Randomised Controlled Trial of Chemotherapy for the Treatment of Recurrent and Primary Refractory Ewing Sarcoma. Phase II. Promoter: Grupo Español de Investigación en Sarcoma Grupo GEIS. PI: Jaume Mora Graupera. Service: Oncology. Start: 23/04/2015. Non Commercial

SJD-ENT-2014-01

Utilización de Entonox en procedimientos dolorosos fuera de quirófano. EPA-SP. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Marina Perelló Riera. Service: Anesthesia. Start: 07/04/2015. Non Commercial

PFI-ETA-2013-01

Influencia de la inmunogenicidad de los fármacos anti-TNF en la eficacia del tratamiento en Artritis Idiopática Juvenil usando la calprotectina sérica como marcador de actividad de la enfermedad. Estudio multicéntrico. "Estudio ITACA". EPA-SP. Promoter: Pfizer, S. L. U. PI: Jordi Antón López. Service: Paediatrics. Start: 19/02/2015. Commercial

TBT-ANT-2014-01

TBTC Estudio 36 - Plataforma de evaluación de los resultados del tratamiento de tuberculosis. Estudio observacional de los individuos tratados con tuberculosis pulmonar (TB). EPA-SP. Promoter: Agència de Salut Pública de Catalunya. PI: Antoni Noguera Julián. Service: Paediatrics. Start: 06/02/2015. Non Commercial

BAY 81-8973/13400

Estudio de Fase III, multicéntrico, abierto y no controlado para evaluar la seguridad

de BAY 81-8973 en niños con hemofilia A grave en tratamiento profiláctico. Phase III. Promoter: Bayer Hispania, S.L.U. PI: Ruben Berrueco Moreno. Service: Clinical haematology. Start: 09/01/2015. Commercial

FSJD-FUNNY FRIENDS-2014

Estudio de la eficacia de un programa de incentivación de fisioterapia respiratoria domiciliaria mediante videojuego (Funny Friends) en pacientes pediátricos afectados de fibrosis quística. Phase II. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Enrique Del Campo Garcia-Ramos. Service: Rehabilitation and physical medicine. Start: 20/11/2014. Non Commercial

WI191603

Treatment with recombinant growth hormone (rGH) in short patients born small-for-gestational-age (SGA) followed at Hospital Sant Joan de Déu: Analysis of early predictors of good response useful in clinical practice. EPA-OD. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Lourdes Ibañez Toda. Service: Endocrinology. Start: 14/11/2014. Non Commercial

LOR-HOR-2013-01

"Identification of circulating microRNAs in short children born small for gestational age: Relationship with pre- and postnatal growth and metabolic parameters". EPA-SP. Promoter: López Bermejo, Abel. PI: Lourdes Ibañez Toda. Service: Endocrinology. Start: 24/10/2014. Non Commercial

20101221

Estudio abierto, de un solo brazo para evaluar la seguridad y eficacia a largo plazo de romiplostim en sujetos

Pediátricos Trombocitopénicos con Púrpura Trombocitopénica Inmune (PTI). Phase III. Promoter: AMGEN S. A. PI: Ruben Berreco Moreno. Service: Clinical haematology. Start: 14/10/2014. Commercial

20130173

Estudio prospectivo, multicéntrico y de un solo brazo para evaluar la eficacia, seguridad y farmacocinética de denosumab en niños con osteogenésis imperfecta. Phase III. Promoter: AMGEN S. A. PI: Rosa Bou i Torrent. Service: Paediatrics. Start: 07/10/2014. Commercial

BRF116013

Estudio Fase I/Ia de dos partes, multicéntrico, abierto, con un solo grupo para determinar la seguridad, tolerabilidad y farmacocinética de dabrafenib oral en niños y adolescentes con tumores sólidos avanzados con mutación BRAF V600 positiva. Phase I. Promoter: Novartis Farmacéutica, S. A. PI: Jaume Mora Graupera. Service: Oncology. Start: 12/09/2014. Commercial

BAY59-7939/14372

Ensayo clínico multicéntrico, aleatorizado, abierto, controlado con comparador activo, para evaluar la eficacia y la seguridad de rivaroxaban a un régimen de dosis ajustado según la edad y el peso, en niños con tromboembolismo venoso agudo. Phase III. Promoter: Bayer Pharma AG. PI: Ruben Berreco Moreno. Service: Clinical haematology. Start: 04/09/2014. Commercial

SEA-OMA-2014-01

Estudio retrospectivo de casos de pacientes alérgicos a alimentos (leche y/o huevo y/o vegetales) tratados con omalizumab como tratamiento único o asociado a inmunoterapia oral mediante

un registro multicéntrico (OmaBase). EPA-OD. Promoter: Sociedad Española de Inmunología Clínica, Alergia y Asma Pediátrica SEICAP. PI: Ana Mª Plaza Martín. Service: Allergy and clinical immunology. Start: 06/08/2014. Non Commercial

EST-SFA-2013

Observational, Ambispective Natural History Study of Patients with Mucopolysaccharidosis Type IIIA (MPS IIIA) or Sanfilippo Syndrome Type A. No EPA. Promoter: Esteve Pharmaceuticals, S. A. PI: Mercè Pineda Marfà. Service: Neurology. Start: 16/07/2014. Commercial

WA29231

Estudio de extensión a largo plazo para evaluar la seguridad y la eficacia de tocilizumab administrado por vía subcutánea en pacientes con artritis idiopática juvenil de curso poliarticular y artritis idiopática juvenil sistémica. Phase I. Promoter: Roche Farma, S. A. PI: Rosa Bou i Torrent. Service: Paediatrics. Start: 30/06/2014. Commercial

HSJD-HR-NB-Ch14.18

Ensayo Clínico de Fase II unicéntrico, no controlado, de Dinutuximab (CH 14.18) con las citoquinas factor estimulante de granulocitos y macrófagos (GM-CSF) e IL-2, en pacientes con neuroblastoma de alto riesgo que no son candidatos para otros ensayos de inmunoterapia. Phase II. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Antoni Noguera Julián. Service: Paediatrics. Start: 16/04/2014. Non Commercial

Y-52-52120-153

Estudio de fase III, multicéntrico, doble ciego, prospectivo, aleatorizado, controlado, de tratamiento múltiple para evaluar la eficacia y la seguridad

de Dysport en el tratamiento pediátrico de la espasticidad de las extremidades superiores. Phase III. Promoter: Ipsen Innovation. PI: Xenia Alonso. Service: Neurology. Start: 09/05/2014. Commercial

A1481316

Estudio multicéntrico, aleatorizado, controlado con placebo, en doble ciego, de dos grupos paralelos, para evaluar la eficacia y la seguridad del sildenafil IV en el tratamiento de neonatos con hipertensión pulmonar persistente del recién nacido (HPPRN) o insuficiencia respiratoria hipoxica y en riesgo de HPPRN, con un seguimiento a largo plazo para investigación de la evolución de su desarrollo 12 y 24 meses después de la finalización del tratamiento del estudio. Phase III. Promoter: PFIZER INC. PI: Julio Moreno Hernando. Service: Neonatology. Start: 06/05/2014. Commercial

FUN-ISO-2014-01

Validación de la dosis única diaria de isoniazida a 10 mg/kg de peso en el lactante menor de 3 meses de vida. EPA-OD. Promoter: Fundació Privada per a la Recerca i la Docència Sant Joan de Déu - FSJD FSJD. PI: Antoni Noguera Julián. Service: Paediatrics. Start: 16/04/2014. Non Commercial

SER-UVE-2013-02

Registro Español de Uveítis Asociada a Artritis Idiopática Juvenil. No EPA. Promoter: Sociedad Española de Reumatología. PI: Jordi Antón López. Service: Paediatrics. Start: 01/04/2014. Non Commercial

EMR 700773-002

Estudio de fase IV, abierto y de una sola cohorte, de los resultados neurocognitivos (NC) a largo plazo en niños de 4 a 5

años con fenilcetonuria tratados con dihidrocloruro de saproterina (Kuvan®) durante 7 años. Phase IV. Promoter: Merck KGaA. PI: Jaume Campistol Plana. Service: Neurology. Start: 05/02/2014. Commercial

Sobi. NTBC

Estudio postautorización de seguridad (EPAS) no intervencional para evaluar la seguridad a largo plazo del tratamiento con Orfadin en la Tirosinemia hereditaria tipo 1 (TH-1) en la práctica clínica estándar. EPA-SP. Promoter: Swedish Orphan Biovitrum AB [publ]. PI: Camila García Volpe. Service: Gastroenterology, hepatology and nutrition. Start: 03/02/2014. Commercial

SPAIN-CSS

Creación de una cohorte española de supervivientes de cáncer infantil: cohorte SPAIN-CSS. No EPA. Promoter: Fundació Privada ISGLOBAL. PI: Héctor Salvador Hernández. Service: Oncology. Start: 20/01/2014. Non Commercial

SENEP-EPI-2013-01

Estudio Epidemiológico para evaluar la gravedad de la infección por VRS en pacientes con enfermedad neurológica severa. No EPA. Promoter: Sociedad Española de Neurología Pediátrica (SENEP). PI: Andrés Nascimento Osorio. Service: Neurology. Start: 17/01/2014. Non Commercial

ISG-GEIS-OS-2

Estudio prospectivo observacional de la expresión de ABCB1/P-glicoproteína como factor para la estratificación biológica del osteosarcoma no metastásico de las extremidades. EPA-SP. Promoter: Grupo Español de Investigación en Sarcoma Grupo GEIS. PI: Jaume Mora Graupera. Service: Oncology. Start: 07/01/2014. Non Commercial

NI-0501-05

Estudio multicéntrico de seguimiento a largo plazo de pacientes con LHH que han recibido tratamiento con NI-0501, un anticuerpo monoclonal anti-interferón gamma. Phase II. Promoter: Novimmune S.A. PI: Jordi Antón López. Service: Paediatrics. Start: 18/11/2013. Commercial

GEI-SAR-2012-01

Registro de sarcomas raros: Herramienta de ayuda para evaluar el número de casos de cada subtipo y su orientación terapéutica por el Grupo Español de Investigación en Sarcomas (GEIS). EPA-SP. Promoter: Grupo Español de Investigación en Sarcoma Grupo GEIS. PI: Jaume Mora Graupera. Service: Oncology. Start: 14/11/2013. Non Commercial

CRAD001A2314

Estudio multicéntrico, abierto, aleatorizado, controlado, de 12 meses de seguimiento para evaluar la eficacia, tolerabilidad y seguridad de la introducción temprana de everolimus, con ICN reducido, y eliminación temprana de esteroides en comparación con un régimen estándar de ICN, micofenolato mofetilo y esteroides en receptores pediátricos de trasplante renal con un seguimiento de seguridad adicional de 24 meses. Phase II. Promoter: Novartis Farmacéutica, S. A. PI: Yolanda Calzada Baños. Service: Nephrology. Start: 30/09/2013. Commercial

BEL114055

Estudio multicéntrico, aleatorizado, de grupos paralelos, controlado con placebo, doble ciego para evaluar la seguridad, eficacia y farmacocinética de belimumab, un anticuerpo monoclonal humano anti-BLyS, más terapia estándar en pacientes pediátricos con lupus eritematoso sistémico (LES). Phase II. Promoter: Glaxosmithkline, S. A. PI: Jordi

Antón López. Service: Paediatrics. Start: 30/09/2013. Commercial

IM101-301

Ensayo clínico fase III, multicéntrico, abierto, para evaluar la farmacocinética, eficacia y seguridad de abatacept administrado por vía subcutánea (s. c.) en niños y adolescentes con artritis idiopática juvenil poliarticular (AIJp) activa y respuesta inadecuada (RI) a fármacos antirreumáticos modificadores de enfermedad (FAME) biológicos o no biológicos. Phase III. Promoter: Bristol-Myers Squibb International Corporation (BMSIC). PI: Jordi Antón López. Service: Paediatrics. Start: 17/09/2013. Commercial

CRAD001MIC03 (NOV-TOR-2012-01)

Un registro internacional de enfermedad que recoge datos sobre manifestaciones, intervenciones y resultados en pacientes con complejo esclerosis tuberosa -TOSCA [NOV-TOR-2012-01]. EPA-SP. Promoter: Novartis Farmacéutica, S. A. PI: Jaume Campistol Plana. Service: Neurology. Start: 19/11/2012. Commercial

MCB-INM-2012-01. MCB-INM-2012-01

Estudi MOMO Monitorización humoral tras modificación del tratamiento inmunosupresor en trasplante renal y cardiaco. Estudio MOMO. EPA-SP. Promoter: Fundación Instituto Mar de Investigaciones Médicas (Fundación IMIM). PI: Anna Vila Santandreu. Service: Nephrology. Start: 24/10/2012. Non Commercial

A0221047

Periodo aleatorizado y abierto de 12 semanas con comparador activo seguido de un periodo de extensión de seguridad de 12 semanas para evaluar la seguridad y la eficacia de fesoterodina en sujetos de 6 a 16 años y >25kg con síntomas de hiperactividad del detrusor asociada con

un trastorno neurológico (hiperactividad neurógena del detrusor). Phase III. Promoter: Pfizer, S. L. U. PI: Lluís García Aparicio. Service: Surgery. Start: 22/10/2012. Commercial

N01266

Estudio de seguimiento, multicéntrico, abierto, a largo plazo, para evaluar la seguridad y la eficacia de brivaracetam como tratamiento adyuvante en pacientes pediátricos con epilepsia. Phase II. Promoter: UCB Pharma S. A. PI: Alia Ramírez Camacho. Service: Neurology. Start: 09/10/2012. Commercial

GHLiquid-3676 (NNH-SOM-2012-01)

"GHLiquid-3676 (NNH-SOM-2012-01) Estudio internacional de desenlaces de NordiNet® (IOS de NordiNet®)". Promoter: Novo Nordisk Pharma, S. A Novo Nordisk España. PI: Lourdes Ibañez Toda. Service: Endocrinology. Start: 04/10/2012. Commercial

BAX-OCT-2011-01

Base de datos de resultados en la hemofilia A con ADVATE (AHEAD). Promoter: Baxalta Innovations GmbH. PI: Ruben Berrueto Moreno. Service: Clinical haematology. Start: 18/07/2012. Commercial

IGR2009/1593/Inter-B-NHL ritux 2010

"Estudio intergrupo para niños o adolescentes con linfoma no-Hodgkin B o Leucemia Linfoblástica de Células B; Evaluación de eficacia y seguridad de rituximab en pacientes de alto riesgo". Phase III. Promoter: Sociedad Española de Hematología y Oncología Pediátricas. PI: Verónica Celis Passini. Service: Oncology. Start: 02/07/2012. Non Commercial

B1801023

Estudio abierto de extensión para evaluar la seguridad a largo plazo de

Etanercept en niños y adolescentes con artritis idiopática juvenil oligoarticular extendida, artritis asociada a entesitis o artritis psoriásica, que participaron anteriormente en el protocolo 0881A1-3338-WW (B1801014). Phase II. Promoter: Pfizer, S.L.U. PI: Jordi Antón López. Service: Paediatrics. Start: 24/01/2012. Commercial

HUMORAL-KTx

Registro nacional de rechazo humoral: Estudio epidemiológico multicéntrico observacional prospectivo para evaluar las características clínicas, serológicas e histológicas y la evolución a 5 años del rechazo humoral post-trasplante renal en España. Promoter: Astellas Pharma S. A. PI: Anna Vila Santandreu. Service: Nephrology. Start: 08/06/2011. Commercial

P10-262/ABB-ADA-2008-02

Registro observacional post-comercialización, multicéntrico y longitudinal de evaluación de la seguridad y la eficacia a largo plazo de Humira® (adalimumab) en niños con artritis idiopática juvenil (AIJ) poliarticular o de evolución poliarticular de actividad entre moderada y grave. (ESTUDIO STRIVE). Promoter: Abbott Laboratories, S. A. PI: Jordi Antón López. Service: Paediatrics. Start: 12/05/2010. Commercial

EMR 700773-001

Registro europeo pediátrico materno de adultos de Kuvan® (KAMPER). Promoter: BioMarin International Limited. PI: Jaume Campistol Plana. Service: Neurology. Start: 16/03/2010. Commercial

IPS-MEC-2008-01

"Base de datos del foro europeo de Increlex [mecasemina (derivada del ADNr) inyectable] en el retraso del crecimiento:

Registro de pacientes europeos para vigilar la eficacia y la seguridad a largo plazo de Increlex. Eu-IGFD". Promoter: Ipsen Pharma, S. A. PI: Marta Ramon Krauel. Service: Endocrinology. Start: 02/02/2009. Commercial

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IPS-SOM-2007-03

Estudio Cooperativo Internacional del Crecimiento. Promoter: Ipsen Pharma Accounting Department/Comptabilité Fournisseur. PI: Marta Ramon Krauel. Service: Endocrinology. Start: 22/10/2007. Commercial