



ANNUAL SCIENTIFIC
REPORT
2016

research
science
innovation
commitment

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Foreword

- 1.1. Introduction
- 1.2. Governing and advisory bodies
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1.2. Governing and advisory bodies

Board of Trustees

Br. Joaquim Erra Mas	<i>Superior of Hospital Sant Joan de Déu in Esplugues de Llobregat, President</i>
His Excellency Dr. Didac Ramirez	<i>Rector of the Universitat de Barcelona (UB)</i>
His Excellency Mr. Jordi Alberch	<i>Vice Rector for Research of the Universitat de Barcelona</i>
Ms. Esther Real Saladrigas	<i>Vice-Rector for Knowledge Transfer of the Universitat Politècnica de Catalunya (UPC)</i>
Dr. Manuel Del Castillo Rey	<i>General Manager of Hospital Sant Joan de Déu in Esplugues de Llobregat</i>
Mr. Enric Mangas Monge	<i>Director of Parc Sanitari Sant Joan de Déu</i>
Dra. Amèlia Guilera Roche	<i>Director of Campus Docent Sant Joan de Déu</i>
Ms. Natàlia Pérez Neira	<i>Financial Director of Hospital Sant Joan de Déu in Esplugues de Llobregat, Secretary</i>
Dra. Montserrat Esquerda Areste	<i>General Director of Institut Borja de Bioètica</i>

Scientific Advisory Council

Dr. Joan Rodés i Teixidor	<i>President of Scientific Advisory Council</i>
Dra. Mara Dierssen Soto	<i>Centre de Regulació Genòmica de Barcelona</i>
Dr. Michael King	<i>London's Global University, Division of Psychiatry</i>
Dr. Romà Pallarès Giner	<i>Deputy Director of the General Management of Institut d'Investigació Biomèdica Bellvitge (IDIBELL)</i>
Dra. Montserrat Vendrell Rius	<i>General Director of BIOCAT</i>
Dra. Susan Webb	<i>Institut de Recerca de l'Hospital de la Santa Creu i Sant Pau. Universitat Autònoma de Barcelona</i>

Governing Committee of Sant Joan de Déu Research Foundation

Mr. Emili Bargalló Angerri	Dr. Jaume Pérez Payarols	Ms. Roser Arnalte Olloquequi
Dr. Josep Maria Haro Abad	Ms. Clara Goula Mallofrè	Ms. Ana Maria Merino Márquez

Clinical Research Ethics Committee (CEIC)

Br. Jesús Pineda Sánchez, <i>president</i>	Mr. Angel del Campo Escota	Dra. Iolanda Jordan Garcia
Dr. Pau Ferrer Salvans, <i>secretary</i>	Dra. Beatriz del Pino Gaya	Ms. Maria Eugènia Rey Abella
Br. Fernando Aguiló Martínez	Dra. Rosa Maria Dueñas Herrero	Dr. Bernabé Robles del Olmo
Ms. Clara Chamorro Pérez	Dra. Sabel Gabaldón Fraile	Dr. Joan Vinent Genestar
Dra. Ofelia Cruz Martínez	Dra. Maria Teresa Giner Muñoz	
Br. Ricardo Dasi Aranda	Ms. Encarna Gómez Gamboa	

1.3. Services and infrastructures

The Sant Joan de Déu Research Foundation 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 Foundation offers its professionals technical, scientific and support services as well as the most suitable infrastructures required to carry out their work:

- Methodological and statistical support
- Methodological support in neuroimaging
- Scientific and technical evaluations service
- Support of the Clinical Trials Unit
- Biobank
- Animal housing facility
- Sequencing Unit
- Library

1.4. Administration Units

Emili Bargalló *Director*
Jennifer Sánchez *Secretary*

Research Management and Promotion

Roser Arnalte
Alia Ode
Jose de Dios
Jessica Laragnou
Maite López
Leonor Norton

Administration and Human Resources

Clara Goula
Laia Batet
Sandra Díaz
Clara Renzanigo

Management of Knowledge and Communication

Ana Maria Merino
Silvia Semaan
Marcos Catalán
Marta Fortuny

Clinical Research Ethics Committee

Editha Tacbas

Statistics support

Daniel Cuadras

Clinical Trials Unit

Joana Claverol
Rosa Morales
Ainhoa Andueza
Carolina Estepa
Marina García
Cristina Llanos
Sandra López
Mari Carmen Molero
Marta Sánchez
Elisenda Sans
José Luis Segura
Laura Solé

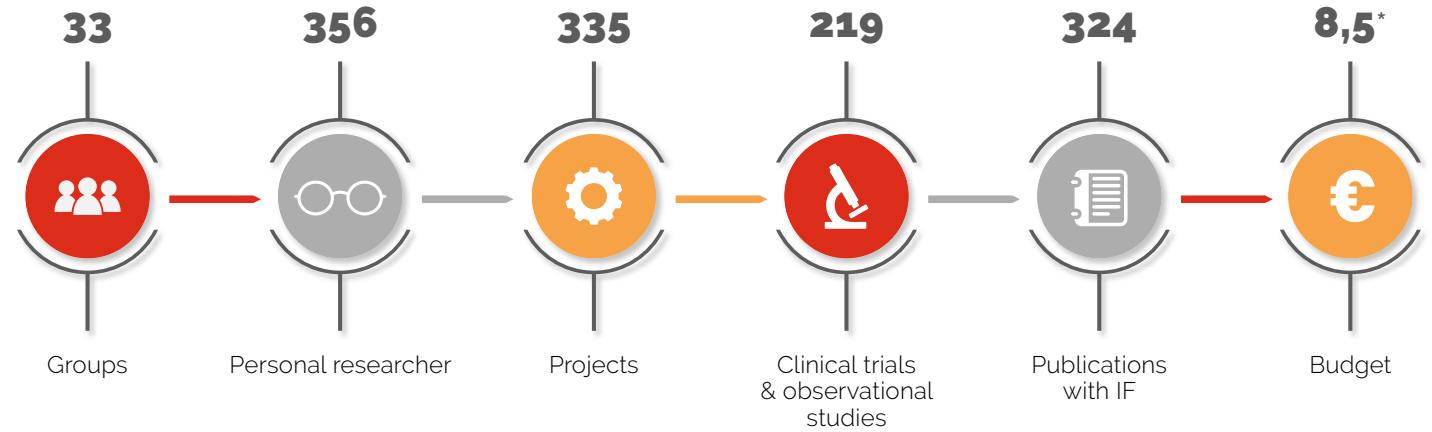


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Fundació de Recerca Sant Joan de Déu

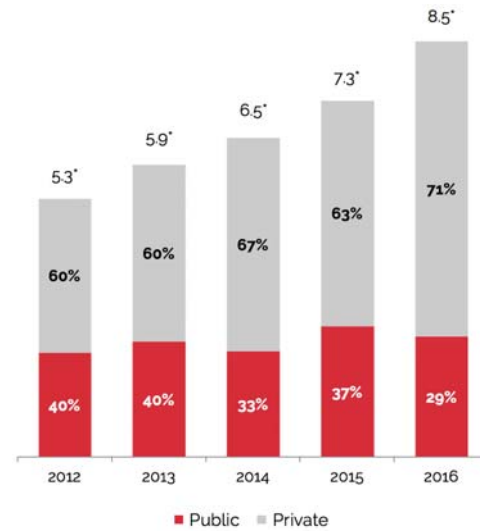
- 2.1. Global numbers 2016
- 2.2. Financial resources management
- 2.3. Impact factor

2.1. Global numbers 2016



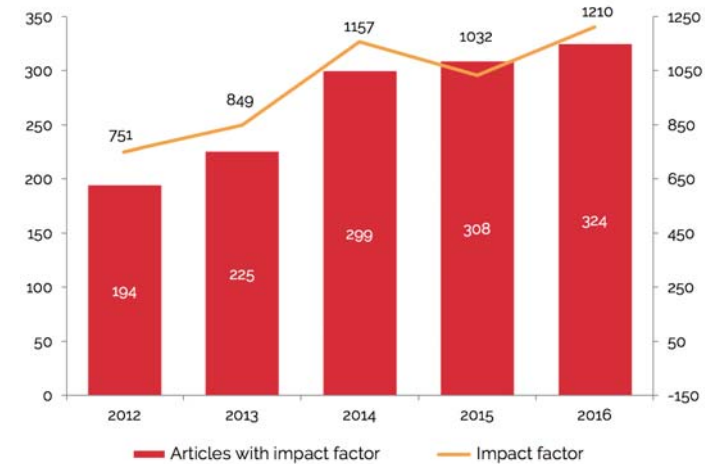
These data include all research information linked to Sant Joan de Déu.

2.2. Financial resources management



(*) Thousand of euros

2.3. Impact factor





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Paediatric Research

- 3.1. Paediatric neuroscience
- 3.2. Molecular and cellular biology of developmental tumour
- 3.3. Adult-age disorders originating in the foetal period or in the early years of life
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- 3.5. Foetal / Paediatric Diseases and environment, metabolic and genetic factors

3.1. Paediatric neuroscience

Coordinators:

Jaume Campistol, MD, PhD
Rafael Artuch, MD, PhD

PKU and other amino acid genetic diseases

Jaume Campistol, MD, PhD

Study in depth the pathophysiological mechanisms involved in this disease in our patients and to test new treatments aimed to improve their metabolic control and neurologic prognosis.



Members

Researchers

Roser Colomé, Carme Fons, Camila Garcia, Rosa Gassió, Maria Julieta González, Silvia Maria Meavilla

Selected projects

- Epilepsy mood Regulation Disorders: a Prospective and Longitudinal Study in Children With Newly Diagnosed Epilepsy. EPILETRE. Fundació La Caixa. PI: Jaume Campistol Plana. Nov 2016 – Nov 2018
- Study of biochemical markers of dopaminergic and serotonergic neurotransmission in relation to neurological and neuropsychological changes in phenylketonuria. Instituto de Salud Carlos III (ISCIII). PI: Jaume Campistol Plana. Jan 2013 – Sep 2016
- SGR 2014_Research group on neurosciences and paediatric metabolism. Agaur - Agència de Gestió d'Ajuts Universitaris i de Recerca. PI: Jaume Campistol Plana. Jan 2014 – Apr 2017
- Open single-cohort phase IV study on the long-term neurocognitive results in children aged 4 to 5 years with phenylketonuria treated with sapropterin dihydrochloride (Kuvan®) over 7 years. Jaume Campistol Plana. Feb 2014 –
- European maternal paediatric register of adults of Kuvan® (KAMPER). PI: Jaume Campistol Plana. Mar 2010 –

Selected publications

- Campistol J, Diez-Juan M, Callejón L, Fernandez-De Miguel A, Casado M, et al. Inborn error metabolic screening in individuals with nonsyndromic autism spectrum disorders. Dev. Med. Child Neurol. 2016. 58: 842-847. IF: 3,615 (Q1)
- Montero R, Yubero D, Villarroya J, Henares D, Jou C, Rodríguez MA, et al. GDF-15 Is Elevated in Children with Mitochondrial Diseases and Is Induced by Mitochondrial Dysfunction. PLoS One 2016. IF: 3,057 (Q1)
- Yubero D, Brandi N, Ormazabal A, Garcia-Cazorla À, Pérez-Dueñas B, Campistol J, et al. Targeted Next Generation Sequencing in Patients with Inborn Errors of Metabolism. PLoS One 2016. IF: 3,057 (Q1)

Networks

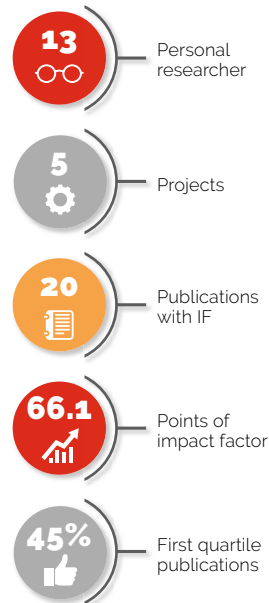
- CIBERER
- TREAT-NMD

Coordinators:
Jaume Campistol, MD, PhD
Rafael Artuch, MD, PhD

Mitochondrial energy metabolism and development of biomarkers for the investigation of inborn errors of metabolism

Rafael Artuch, MD, PhD

biochemical and molecular aspects of childhood mitochondrial encephalomyopathies due to defects in oxidative phosphorylation, and the biochemical effect of treatment with various therapies. Development of biomarkers for the investigation of inborn errors of metabolism is the main goal of this research program.



Members

Researcher

Aida Ormazabal

Postdoc-associate researcher

Raquel Montero, Délia Yubero, Mercedes Casado, Cristina Sierra, Marta Molero

PhD student

Cristina Jou, Marta Batllori

Collaborator researchers

Andrés Nascimento, Mar O'Callaghan

Technicians

Juan Moreno, Aroa Fernández, Tania Pardal, Yahel Calzadilla

Selected projects

- Mitochondrial encephalomyopathies and secondary deficiencies of coenzyme Q10: studies on paediatric patients, cellular models and murine models. Instituto de Salud Carlos III (ISCIII). PI: Rafael Artuch Iriberry. Jan 2015 – Dec 2017
- Study of trace elements (Cu, Zn, Se and Mn) in cerebrospinal fluid of paediatric subjects and analysis of related biomarkers. Instituto de Salud Carlos III (ISCIII). PI: Aida Ormazabal Herrero. Jan 2015 – Dec 2017
- Identification of populations showing high linear correlations between biochemical variables.. Ministerio de Economía Y Competitividad (MINECO). PI: Rafael Artuch Iriberry. Sep 2014 - Feb 2016

- Predoctoral grant - Phenotypic and molecular characterisation of coenzyme Q deficiency syndrome. Beneficiary: Delia Yubero Siles. Instituto de Salud Carlos III (ISCIII). PI: Rafael Artuch Iriberry. Sep 2012 – Sep 2016

Selected publications

- Ortigoza-Escobar JD, Molero-Luis M, Arias A, Oyarzabal A, Darin N, Serrano M, et al. Free-thiamine is a potential biomarker of thiamine transporter-2 deficiency: a treatable cause of Leigh syndrome. *Brain* 2016. 139: 31-38. IF: 10,103 (Q1)
- Yubero D, Adin A, Montero R, Jou C, Jiménez-Mallebrera C, Garcia-Cazorla A, et al. A statistical algorithm showing coenzyme Q10 and citrate synthase as biomarkers for mitochondrial respiratory chain enzyme activities. *Sci Rep* 2016. 6: 15-0. IF: 5,228 (Q1)
- Yubero D, Brandi N, Ormazabal A, Garcia-Cazorla A, Pérez-Dueñas B, Campistol J, et al. Targeted Next Generation Sequencing in Patients with Inborn Errors of Metabolism. *PLoS One* 2016. IF: 3,057 (Q1)
- Yubero D, Montero R, Martin MA, Montoya J, Ribes A, Grazina M, et al. Secondary coenzyme Q(10) deficiencies in oxidative phosphorylation (OXPHOS) and non-OXPHOS disorders. *Mitochondrion* 2016. 30: 51-58. IF: 3,647 (Q2)

3.1. Padiatric neuroscience

Coordinators:
Jaume Campistol, MD, PhD
Rafael Artuch, MD, PhD

Applied research on neuromuscular disorders

Cecilia Jiménez, PhD

Research in: Muscular dystrophies, including Duchenne muscular dystrophy (DMD) and congenital muscular dystrophies (CMD), with a special focus on the role of the extracellular matrix and collagen VI. Mitochondrial diseases including mitochondrial DNA depletion syndromes affecting muscle.



Members

Researchers

Andrés Nascimento, Carlos Ignacio Ortez

Postdoc–associate researcher

Mónica Llano, Angelica Maritza Betancourt

PhD Student

Cristina Jou, M Angeles Rodriguez

Assistant researcher

Lidia Alvarez

Technicians

M del Carmen Badosa, Sergi Garcia

Collaborator researcher

Susana Kalko (IDIBAPS)

Selected projects

- Miguel Servet tipo II - Beneficiary: Dra. Cecilia Jimenez. Instituto de Salud Carlos III (ISCIII). PI: Cecilia Jiménez Mallebrera. Apr 2016 – Apr 2019
- Role of collagen VI and biglycan in muscle homeostasis: regulation of muscle fibre size and metabolism. Implications for muscular dystrophies. Instituto de Salud Carlos III (ISCIII). PI: Cecilia Jiménez Mallebrera. Jan 2014 – Jun 2017
- Miguel Servet - Application of Global Gene Expression Analysis and Functional Genomics to the Study of the Physiopathology, Treatment and Diagnosis of Pediatric Myopathies. Beneficiary: Cecilia Jimenez. Instituto de Salud Carlos III (ISCIII). PI: Cecilia Jiménez Mallebrera. Apr 2010 – Apr 2016
- Open extension study for patients with spinal muscular atrophy who have previously participated in experimental studies of ISIS 396443. PI: Andrés Nascimento Osorio. May 2016 –

Selected publications

- Llano Diez M, Ortez C, Armas J, Álvarez-Cabado L, Jou C, Medina J, et al. Digital PCR quantification of miR-30c and miR-181a as serum biomarkers in Duchenne muscular dystrophy. *Neuromuscul Disord* 2016. 29: 159-0. IF: 3,107 (Q2)
- Yubero D, Adin A, Montero R, Jou C, Jiménez-Mallebrera C, Garcia-Cazorla A, et al. A statistical algorithm showing coenzyme Q10 and citrate synthase as biomarkers for mitochondrial respiratory chain enzyme activities. *Sci Rep* 2016. 6: 15-0. IF: 5,228 (Q1)
- Yubero D, Montero R, Martin MA, Montoya J, Ribes A, Grazina M, et al. Secondary coenzyme Q(10) deficiencies in oxidative phosphorylation (OXPHOS) and non-OXPHOS disorders. *Mitochondrion* 2016. 30: 51-58. IF: 3,647 (Q2)
- Montero R, Yubero D, Villarroja J, Henares D, Jou C, Rodriguez MA, et al. GDF-15 Is Elevated in Children with Mitochondrial Diseases and Is Induced by Mitochondrial Dysfunction. *PLoS One* 2016. IF: 3,057 (Q1)

Networks

- CIBERER
- TREAT-NMD

Coordinators:
Jaume Campistol, MD, PhD
Rafael Artuch, MD, PhD

Neurometabolic disorders and synaptic studies in rare neurogenetic conditions

Àngels Garcia-Cazorla, MD, PhD

Neurometabolic disorders, neurotransmitters, cerebrospinal fluid biomarkers, brain connectivity and synaptic function through different approaches.



Members

Senior researcher

Judith Armstrong, Aida Ormazábal

Researchers

Elisenda Cortès-SaladelaFont,

Alfonso Luis de Oyarzabal

Postdoc–associate researcher

Anna López, Roser Colomé, Itziar Alonso,

M del Mar O'Callaghan

PhD student

Gabriel Diaz, Inés Medina, Federico Ramos,

Alba Tristan

Selected projects

- Neurotransmission systems in paediatric encephalopathies of genetic origin: identification of new molecular and pathophysiologic aspects. Instituto de Salud Carlos III (ISCIII). PI: M^aAngels García Cazorla. Jan 2016 – Dec 2018
- "My Princess Rett" – Cellular model for the study and treatment of excitatory/inhibitory synaptic imbalance in Rett syndrome. OSSJD - Obra Social Sant Joan de Déu. PI: M^aAngels García Cazorla. Sep 2014 – Dec 2020
- InNerMeD_Inherited NeuRoMetabolic Diseases Information Network European Commission. PI: M^aAngels García Cazorla. Apr 2013 – Mar 2016
- Biomarkers of change in cerebral neurotransmission in paediatric encephalopathies of genetic origin: studies on patients and on a cellular model. Instituto de Salud Carlos III (ISCIII). PI: M^aAngels García Cazorla. Jan 2013 – Dec 2016

Selected publications

- Cassis L, Cortès-SaladelaFont E, Molero-Luis M, Yubero D, González MJ, Ormazábal A, et al. Review and evaluation of the methodological quality of the existing guidelines and recommendations for inherited neurometabolic disorders. *Orphanet J Rare Dis* 2016. 11: 147-0. IF: 3,290 (Q2)
- Cortès-SaladelaFont E, Tristán-Noguero A, Artuch R, Altafaj X, Bayès A, Garcia-Cazorla A. Diseases of the Synaptic Vesicle: A Potential New Group of Neurometabolic Disorders Affecting Neurotransmission. *Semin Pediatr Neurol*. 2016 Nov; 23(4):306-320. Epub 2016 Nov 15. IF: 1,303 (Q3)
- Opladen T, Cortès-SaladelaFont E, Mastrangelo M, Horvath G, Pons R, Lopez-Laso E, et al. The International Working Group on Neurotransmitter related Disorders (iNTD): A worldwide research project focused on primary and secondary neurotransmitter disorders. *Mol Genet Metab Rep*. 2016 Oct 20;9:61-66. eCollection
- Tristán-Noguero A, Díez H, Jou C, Pineda M, Ormazábal A, Sánchez A, et al. Study of a fetal brain affected by a severe form of tyrosine hydroxylase deficiency, a rare cause of early parkinsonism. *Metab. Brain Dis*. 2016. 31: 705-709. IF: 2,603 (Q3)

Networks

- CIBERER
- TREAT-NMD
- EUROPEAN REFERENCE NETWORK FOR HEREDITARY METABOLIC DISEASES (METABERN)
- Connecting the growing brain
- INTD – International Working Group on Neurotransmitter Related Disorders

Coordinators:
Jaume Campistol, MD, PhD
Rafael Artuch, MD, PhD

Movement disorders of genetic and neurometabolic origin

Belén Pérez, MD, PhD

Study of defects in the transport and metabolism of thiamine associated with recurrent encephalopathies in childhood. Cerebral folate deficiency. Relation to neurotransmitters and follow-up of treatment with folinic acid.



Members

Researchers

Jordi Muchart, M Pilar Poo, Mercedes Serrano

Postdoc–associate researcher

Juan Dario Ortigoza

PhD student

María Vanegas, Laura Martí, Alejandra Darling

Collaborator researcher

Carmen Espinós (Centro de Investigación Príncipe Felipe)

Selected projects

- Collaborative project between Sant Joan de Déu Barcelona and the Aludme association on the clinical and genetic characterisation of patients with myoclonous dystonia in the Spanish population, and biomarkers study.. Asociación de lucha contra la distonia mioclonica valenciana. PI: Belén Pérez Dueñas. Jun 2016 – May 2019
- Biomarkers and genes in infantile bilateral striatal necrosis.. Instituto de Salud Carlos III (ISCIII). PI: Belén Pérez Dueñas. Jan 2016 – Dec 2018
- Neurodegeneration with Brain Iron Accumulation: Clinical Assessment and Genetic Characterization by means of a Spanish Multi-Centre Research Network. Fundació La Marató de TV3. PI: Belén Pérez Dueñas. Mar 2015 – Mar 2018
- Pantothenate Kinase Associated Neurodegeneration: Clinical Assessment and Genetic Characterization by means of a Multi-Centre Research Network. Retrophin, Inc. PI: Belén Pérez Dueñas. Mar 2015 – Jun 2019

Selected publications

- Ortigoza-Escobar JD, Molero-Luis M, Arias A, Martí-Sánchez L, Rodríguez-Pombo P, Artuch R, et al. Treatment of genetic defects of thiamine transport and metabolism.. Expert Rev. Neurother. 2016. 16: 755-763. IF: 2,758 (Q2)
- Ortigoza-Escobar JD, Molero-Luis M, Arias A, Oyarzabal A, Darin N, Serrano M, et al. Free-thiamine is a potential biomarker of thiamine transporter-2 deficiency: a treatable cause of Leigh syndrome. Brain 2016. 139: 31-38. IF: 10,103 (Q1)
- Ortigoza-Escobar JD, Oyarzabal A, Montero R, Artuch R, Jou C, Jiménez-Mallebrera C, et al. Ndufs4 related Leigh syndrome: A case report and review of the literature. Mitochondrion 2016. 28: 73-78. IF: 3,647 (Q2)
- Papandreou A, Schneider RB, Augustine EF, Ng J, Mankad K, Meyer E, McTague A, et al. Delineation of the movement disorders associated with FOXG1 mutations. Neurology 2016. 86: 1794-1800. IF: 8,166 (Q1)

Networks

- CIBERER
- TREAT-NMD
- Unitat integrada de referència del sistema nacional de salut en "enfermedades raras que cursan con trastornos del movimiento (csur_53)
- "Health care provider" de la european reference network on rare neurologic diseases

3.1. Padiatric neuroscience

Coordinators:

Jaume Campistol, MD, PhD
Rafael Artuch, MD, PhD

Neurogenetics and molecular medicine

Janet Hoenicka, MD, PhD

Neurogenetics and pathophysiology of neuromuscular, neurodevelopmental and CNS disorders • Charcot-Marie-Tooth neuropathy • Friedreich's ataxia • Parkinson's disease • Addictive disorders • Rett syndrome • Congenital disorders of glycosylation • Menkes disease • Intellectual disability



Members

Senior researchers

Francesc Palau, Judith Armstrong

Researchers

Mercedes Serrano

Research associates and clinical researchers

Xochitl Castro, Lara Cantarero, Laura Dominguez, Antonio Martínez Monseny, Loreto Martorell, Maria del Mar Pérez Iribarne, Isabel Plensa

PhD students

Azahara Civera, Elena Juárez, Silvia Vidal
Research assistant: Laura Blasco, Nuria Brandi

Technicians

Daniel Castillo, Jordi Genovès, Dolores López, Ana López Montserrat Naudó, Paola Pacheco, Teresa Ramírez, Lluïsa Zabala

Selected projects

- Role of ANKK1 in the genetics and pathophysiology of Parkinson's disease. Instituto de Salud Carlos III (ISCIII). PI: Janet Hoenicka. Jan 2016 – Dec 2018
- The landscape of axonal biology and mitochondrial-associated membranes in neurogenetic disorders. Ministerio de Economía Y Competitividad (MINECO). PI: Francesc Palau Martínez. Jan 2016 – Dec 2019
- Clinical and molecular characterisation of Rett syndrome: elucidating unsolved cases. Instituto de Salud Carlos III (ISCIII). PI: Judith Silvia Armstrong Morón. Jan 2016 – Dec 2018
- GenomicScientia – Centre for Genomic Sciences in Medicine. Departament de Salut - Generalitat de Catalunya. PI: Francesc Palau Martínez. Jan 2016 – Dec 2018

Selected publications

- Lucariello M, Vidal E, Vidal S, Saez M, Roa L, Huertas D, et al. Whole exome sequencing of Rett syndrome-like patients reveals the mutational diversity of the clinical phenotype. Hum Genet 2016. 135: 1343-1354. IF: 5,138 (Q1)
- Mollá B, Riveiro F, Bolinches-Amorós A, Muñoz-Lasso DC, Palau F*, González-Cabo P*. Two different pathogenic mechanisms, dying-back axonal neuropathy and pancreatic senescence, are present in the YG8R mouse model of Friedreich's ataxia. Dis. Model. Mech. 2016. 9: 647-657. IF: 4,316 (Q1)
- Sáez MA, Fernández-Rodríguez J, Moutinho C, Sanchez-Mut JV, Gomez A, Vidal E, et al. Mutations in JMJD1C are involved in Rett syndrome and intellectual disability. Genet. Med. 2016. 18: 378-385. IF: 7,710 (Q1)
- Sevilla T, Lupo V, Martínez-Rubio D, Sancho P, Sivera R, Chumillas MIJ, et al. Mutations in the MORC2 gene cause axonal Charcot-Marie-Tooth disease. Brain 2016. 139: 62-72. IF: 10,103 (Q1)

Networks

- CIBERER
- TREAT-NMD
- ACTION – Data and Policies for Rare Diseases
- European network of reference centers for rare neuromuscular diseases
- Orphanet-Spain

Preclinical pharmacology and drug release in solid paediatrics tumours

Angel Montero Carcaboso, PhD

Development of preclinical disease models (neuroblastoma, diffuse intrinsic pontine glioma/DIPG, rhabdomyosarcoma, Ewing's sarcoma, retinoblastoma) on the basis of biobank samples. Study of new treatments (pharmacological, biological and immunotherapy) in preclinical models of paediatric solid tumours. Study of the penetration of chemotherapeutic agents in preclinical models of paediatric solid tumours. Development of new chemotherapy release systems in paediatric solid tumours.



Members

Senior researcher
Guillermo Chantada

Researcher
Ofelia Cruz, Andrés Morales

PhD student
Nagore Gené, Carles Monterrubio, Sonia Paco, Guillem Pascual

Technician
Mònica Vilà

Selected projects

- Cure2DIPG_Nanocarriers modified with a protease-resistant BBB shuttle for targeted CNS drug delivery in diffuse intrinsic pontine glioma. Instituto de Salud Carlos III (ISCIII). PI: Angel Montero Carcaboso. Jan 2016 – Dec 2018
- Immunotherapy of diffuse pontine glioma (DIPG). Instituto de Salud Carlos III (ISCIII). PI: Angel Montero Carcaboso. Jan 2016 – Dec 2018
- Cure4RB. Ministerio de Economía Y Competitividad (MINECO). PI: Angel Montero Carcaboso. Jul 2015 – Dec 2018
- Miguel Servet Translational research program in diffuse intrinsic pontine gliomas. Beneficiario: Angel Montero. Instituto de Salud Carlos III (ISCIII). PI: Angel Montero Carcaboso. Jan 2014 – Jan 2019
- Translational research program in diffuse intrinsic pontine gliomas. Instituto de Salud Carlos III (ISCIII). PI: Angel Montero Carcaboso. Jan 2014 – Dec 2017

Selected publications

- Daryani VM, Patel YT, Tagen M, Turner DC, Carcaboso AM, Atkinson JM, Gajjar A, Gilbertson RJ, Wright KD, Stewart CF. Translational Pharmacokinetic-Pharmacodynamic Modeling and Simulation: Optimizing 5-Fluorouracil Dosing in Children With Pediatric Ependymoma. *CPT Pharmacometrics Syst Pharmacol*. 2016. 5(4):211-221. IF: -- (Q--)
- Monterrubio C, Pascual-Pasto G, Cano F, Vila-Ubach M, Manzanares A, Schaiquevich P, et al. SN-38-loaded nanofiber matrices for local control of pediatric solid tumors after subtotal resection surgery. *Biomaterials* 2016. 79: 69-78. IF: 8,387 (Q1)
- Pascual-Pasto G, Olaciregui NG, Vila-Ubach M, Paco S, Monterrubio C, Rodriguez E, et al. Preclinical platform of retinoblastoma xenografts recapitulating human disease and molecular markers of dissemination. *Cancer Lett* 2016. 380: 10-19. IF: 5,992 (Q1)
- Winter U, Mena HA, Negrotto S, Arana E, Pascual-Pasto G, Laurent V, et al. P. Schedule-Dependent Antiangiogenic and Cytotoxic Effects of Chemotherapy on Vascular Endothelial and Retinoblastoma Cells. *PLoS One*. 2016 Jul 28;11(7):e0160094. IF: 3,057 (Q1)

Networks

- Innovative Therapies for Children with Cancer

Leukaemia and non-malignant blood disorders

Mireia Camós, MD, PhD

To conduct translational and easily applicable research both on leukaemias and bone marrow failure syndromes, and on non-neoplastic blood changes, haemoglobin disorders and coagulation disorders.



Members

Researchers

Isabel Badell, Ruben Berrueco, Albert Català, Julia Marsal, Susanna Rives, Anna Ruiz, Montserrat Torredadell

PhD students

Anna Alonso, Roberta Malatesta, Montserrat Meseguer, Maria Trabazo, Nerea Vega

Technicians

Maria Camino Estella, Sandra Pont

Selected projects

- Pilot study of infusion of autologous genetically modified T lymphocytes to express anti-CD19 in patients with leukaemia or lymphoma CD19+ resistant or refractory to treatment. Instituto de Salud Carlos III (ISCIII). PI: Susana Rives Solà. Jan 2015 – Dec 2017
- Biological studies group on paediatric acute lymphoblastic leukaemia (ALL): harmonisation and standardisation of the diagnosis, follow-up of the minimum residual disorder and promotion of cooperative research. Fundación Sandra Ibarra de Solidaridad Frente al Cáncer. PI: Mireia Camós Guijosa. Jan 2014 – Jun 2016
- Pilot study of infusion of autologous genetically modified T lymphocytes to express anti-CD19 in patients with leukaemia or lymphoma CD19+ resistant or refractory to treatment. PI: Susana Rives Solà. Jan 2015 –
- Study of regulatory molecular pathways of haematopoietic progenitor cells in paediatric leukaemias with rearrangement of the MLL gene. Instituto de Salud Carlos III (ISCIII). PI: Mireia Camós Guijosa. Jan 2013 – Jun 2017

Selected publications

- Alonso-Saladrigues A, Català A, Berrueco R, Camós M, Torredadell M, Rives S. Aplastic Crisis Secondary to Parvovirus B19 Infection as the First Manifestation of an Undiagnosed Hereditary Spherocytosis: Report of a Pediatric Series of Spanish Patients. *J Pediatr Hematol Oncol*. 2016 Jan;38(1):81-2. IF:1,146 (Q3)
- Català A, Pastor-Anglada M, Caviades-Cárdenas L, Malatesta R, Rives S, Vega-García N, et al. FLT3 is implicated in cytarabine transport by human equilibrative nucleoside transporter 1 in pediatric acute leukemia. *Oncotarget* 2016. 7: 49786-49799. IF: 5,008 (Q1)
- Cela E, Bellón JM, de la Cruz M, Beléndez C, Berrueco R, Ruiz A, et al. National registry of hemoglobinopathies in Spain (REPHem). *Pediatr Blood Cancer*. 2016 Nov 2. IF: 2, 634 (Q1)
- de Sevilla MF, Català A, Rives S, Berrueco R, Vidiella N, Camós M, et al. Spuriously low pulse oximetry saturation associated with hemoglobin Sydney in a child and relatives: Identification of this unstable hemoglobin may avoid unnecessary testing and hospital admissions. *Pediatr Blood Cancer* 2017. 64(5). IF: 2,634 (Q1)

Networks

- Innovative Therapies for Children with Cancer

Neuroblastoma

Carmen de Torres, PhD

New therapeutic targets in neuroblastoma; personalized treatment to pediatric patients affected of refractory solid tumors based on the knowledge of their genetic alterations.



Members

Postdoc–associate researchers

Marta Garcia, Eliana Carolina Gonzalves, Silvia Mateo, Carlos Javier Rodríguez

Technician

Noelia Salvador

Selected projects

- CaSR_Marie Curie International Training Network - CaSR Biomedicine_Calcium-Sensing Receptor Therapeutics for Non-Communicable Diseases. Beneficiary: Dra. Carmen de Torres. European Commission. PI: Carmen De Torres Gómez-Pallete. Mar 2016 – Feb 2020
- Assessment of the calcium-sensing receptor and parathyroid hormone-related protein as new therapeutic targets in neuroblastoma. Instituto de Salud Carlos III (ISCIII). PI: Carmen De Torres Gómez-Pallete. Jan 2015 – Dec 2017

Selected publications

- Brandt A, Löhers K, Beier M, Leube B, de Torres C, Mora J, et al. Establishment of a Conditionally Immortalized Wilms Tumor Cell Line with a Homozygous WT1 Deletion within a Heterozygous 11p13 Deletion and UPD Limited to 11p15. PLoS One 2016. IF: 3,057 (Q1)
- Chamorro-Garcia A, Dela Escosura-Muñiz A, Espinosa-Castañeda M, Rodríguez-Hernandez CJ, de Torres C, et al. Detection of parathyroid hormone-like hormone in cancer cell cultures by gold nanoparticle-based lateral flow immunoassays. Nanomed.-Nanotechnol. Biol. Med. 2016. 12: 53-61. IF: 5,671 (Q1)
- Mateo-Lozano S, García M, Rodríguez-Hernández CJ, de Torres C. Regulation of Differentiation by Calcium-Sensing Receptor in Normal and Tumoral Developing Nervous System. Front. Physiol. 2016. 7: 169-0. IF: 4,031 (Q1)
- Rodríguez-Hernández CJ, Mateo-Lozano S, García M, Casalà C, Briansó F, Castrejón N, et al. Cinacalcet inhibits neuroblastoma tumor growth and upregulates cancer-testis antigens. Oncotarget 2016. 7: 16112-16129. IF: 5,008 (Q1)

Networks

- CaSR_Marie Curie International Training Network - CaSR Biomedicine_Calcium-Sensing Receptor Therapeutics for Non-Communicable Diseases

Sarcoma and histiocytosis

Jaume Mora, MD, PhD

Study of the origin of sarcoma and phenotypic and genotypic characterisation of the various clinical subtypes. Research on the existence of precursor or tumour stem cells. Improved treatment of patients with sarcomas through the study of pre-clinical pharmacology. Development of therapies targeted at the IgF1r pathway. Study of directed therapies and molecular pathways in Langerhans cell histiocytosis.



Members

Senior researcher

M^a Inmaculada Hernández

Postdoc-associate researcher

Sara Sánchez

Assistant researcher

Veronica Celis, Vicente Santa-María, Moira Garraus

PhD student

Elisabet Figuerola, Sara Pérez-Jaume, Estela Prada

Technician

M^a Jesús Nagel

Selected projects

- Search, validation and clinical translation of new therapeutic targets on the basis of genomics and integrative proteomics studies on Ewing's sarcoma.. Asociación Española Contra el Cáncer. PI: Jaume Mora Graupera. Oct 2013 – Sep 2018
- Uncontrolled multi-centre prospective phase II clinical trial on intensive chemotherapy, surgery and radiotherapy in tumours of the Ewing's sarcoma family in children, adolescents and adults. Ministerio de Sanidad y Política Social. PI: Jaume Mora Graupera. Jan 2010 – Jun 2016
- Two-part open multi-centre single-armed phase I/IIA study to determine the safety, tolerability and pharmacokinetics of oral dabrafenib in children over age 12 months and under 18 years with advanced solid tumours and BRAF V600 positive mutation. PI: Jaume Mora Graupera. Sep 2014 –
- Single-centre uncontrolled phase II clinical trial on dinutuximab (CH 14.18) with cytokines –

granulocyte-macrophage colony-stimulating factor (GM-CSF) and IL-2 – in patients with high-risk neuroblastoma who are not candidates for other immunotherapy trials. PI: Jaume Mora Graupera. May 2014 –

Selected publications

- Hernández-Muñoz I, Figuerola E, Sánchez-Molina S. RING1B contributes to Ewing sarcoma development by repressing the Nav1.6 sodium channel and the NF- κ B pathway, independently of the fusion oncoprotein. *Oncotarget* 2016. 7: 46283-46300. IF: 5,008 (Q1)
- Kovar H, Amatruda J, Brunet E, Burdach S, Cidre-Aranaz F, de Alava E, et al. O. The second European interdisciplinary Ewing sarcoma research summit - A joint effort to deconstructing the multiple layers of a complex disease. *Oncotarget* 2016. 7: 8613-8624. IF: 5,008 (Q1)
- Krauel L, Fenollosa F, Riaza L, Pérez M, Tarrado X, Morales A, et al. Use of 3D Prototypes for Complex Surgical Oncologic Cases. *World J.Surg.* 2016. 40: 889-894. IF: 2,523 (Q2)
- Mora J. Dinutuximab for the treatment of pediatric patients with high-risk neuroblastoma. *Expert Rev Clin Pharmacol* 2016. 9: 647-653. IF: 2,488 (Q2)

Networks

- Innovative Therapies for Children with Cancer

Translational genomics

Cinzia Lavarino, PhD

Identification of epigenetic biomarkers. Development of tools for the determination of treatment response. Genomic study of developmental tumours. Sequencing of the transcriptome of individual tumour cells. Identification of tumour stem cells.



Members

Researcher

Héctor Salvador

PhD students

Laura Garcia, Alicia Garrido, Soledad Gómez

Technician

Isadora Lemos

Selected projects

- Epigenetics in neuroblastoma pathogenesis: new molecular perspectives for the development of therapeutic strategies. Instituto de Salud Carlos III (ISCIII). PI: Cinzia Lavarino. Jan 2015 – Dec 2017
- Formation of a Spanish cohort of childhood cancer survivors: SPAIN-CCSS cohort. PI: Héctor Salvador Hernández. Jan 2014 –

Selected publications

- Pascual-Pasto G, Olaciregui NG, Vila-Ubach M, Paco S, Monterrubio C, Rodriguez E, et al. Preclinical platform of retinoblastoma xenografts recapitulating human disease and molecular markers of dissemination. *Cancer Lett* 2016. 380: 10-19. IF: 5,992 (Q1)
- Rodríguez-Hernández CJ, Mateo-Lozano S, García M, Casalà C, Briansó F, Castrejón N, Rodríguez E, et al. Cinacalcet inhibits neuroblastoma tumor growth and upregulates cancer-testis antigens. *Oncotarget* 2016. 7: 16112-16129. IF: 5,008 (Q1)
- Salas S, Agut T, Rovira C, Canizo D, Lavarino C, Garcia-Alix A. Infratentorial congenital glioblastoma multiforme. A rare tumour with a still unknown biology. *Rev Neurol* 2016. 63: 411-414. IF: 0,684 (Q4)

Metabolic endocrinology

Lourdes Ibañez, MD, PhD

Research in: Prenatal diagnosis. Postnatal growth restriction and prematurity nutritional inputs. Endocrine and developmental effects. New therapeutic strategies in paediatric entities associated with insulin resistance. New risk markers of metabolic syndrome, hyperinsulinism and cardiovascular disease in children and adolescents with low birth weight. Metabolomic and methylome studies in patients with hyperinsulinism/low birth weight/metabolic syndrome.



Members

Researcher

Marta Díaz

Postdoc-associate researchers

Rita Malpique de Sousa, Giorgina Sebastiani

Assistant researcher

Cristina Garcia

Collaborator researchers

Francis de Zegher, Abel López Bermejo

Selected projects

- Development of a new combination of sensitisers to the action of insulin and antiandrogens for the treatment of polycystic ovary syndrome in adolescent and young adult women.. Ministerio de Economía Y Competitividad (MINECO). PI: Lourdes Ibañez Toda. Mar 2016 – Dec 2019
- Effectiveness and tolerance of a new combination of low doses of sensitisers to the action of insulin and antiandrogens in prepubertal and adolescent girls with hyperandrogenism and hyperinsulinism. Agaur - Agència de Gestió d'Ajuts Universitaris i de Recerca. PI: Lourdes Ibañez Toda. Jan 2016 – Dec 2018
- MicroRNAs and metabolic diseases of foetal origin: pathophysiological mechanisms and risk markers (EPIPLOG). Fundació Agrupació Mútua. PI: Lourdes Ibañez Toda. Jan 2016 – Dec 2017
- 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. PI: Lourdes Ibañez Toda. Jul 2015 – Jul 2018

Selected publications

- Bassols J, Martínez-Calcerrada JM, Prats-Puig A, Carreras-Badosa G, Díaz-Roldán F, Osiniri I, et al. Uric acid, carotid intima-media thickness and body composition in prepubertal children. *Pediatr Obes* 2016. 11: 375-382. IF: 3,68g (Q1)
- Sebastiani G, Díaz M, Bassols J, Aragonés G, López-Bermejo A, de Zegher F, et al. The sequence of prenatal growth restraint and post-natal catch-up growth leads to a thicker intima-media and more pre-peritoneal and hepatic fat by age 3-6 years. *Pediatr Obes* 2016. 11: 251-257. IF: 3,68g (Q1)
- Valle-Sistac J, Molins-Delgado D, Díaz M, Ibañez L, Barceló D, Díaz-Cruz SM. Determination of parabens and benzophenone-type UV filters in human placenta. First description of the existence of benzyl paraben and benzophenone-4. *Environ Int* 2016. 88: 243-249. IF: 5,92g (Q1)
- de Zegher F, Pérez-Cruz M, Sebastiani G, Díaz M, López-Bermejo A, Ibañez L. Large for Gestational Age Newborns from Mothers Without Diabetes Mellitus Tend to Become Tall and Lean Toddlers. *J Pediatr* 2016. 178: 278-280. IF: 3,89g (Q1)

Networks

- CIBERDEM

Early origins of long-term risk of obesity and metabolic disease

José Carlos Jiménez, PhD

Research in: Molecular mechanisms that associate nutrition during early development with the risk of acquiring childhood obesity and chronic metabolic disorders during adulthood, including obesity, insulin resistance and diabetes. We are currently studying the role of the epigenome and the microbiota in mediating nutritionally-derived disease risk. To achieve this goal we are combining experimental animal models and well as Clinical Cohorts of pre-pubertal obese children.



Members

Senior researcher

Carles Lerin, Rubén Díaz

Researcher

Marta Ramon Krauel

Postdocs–associate researchers

David Sánchez-Infantes, Oscar Osorio

PhD students

M Jesús Leal, Silvia Ribó

Technicians

Judith Cebrià Romero

Selected projects

- Modifying maternal nutrition during lactation to improve offspring life-course health outcomes. Ajinomoto Co., Inc.. PI: Carles Lerin Martinez. Jan 2015 – Sep 2017
- Childhood obesity and metabolic syndrome risk in adults: epigenetic mechanisms. Instituto de Salud Carlos III (ISCIII). PI: José Carlos Jiménez Chillarón. Jan 2015 – Dec 2017
- CIDI - La Caixa Special Fund (fund for scientific advance and innovation in childhood diabetes). Fundació Caixa d'Estalvis i Pensions de Barcelona. PI: Ruben Díaz Naderi. Jan 2011 – Dec 2017
- Randomised, double-blind placebo-controlled phase 3 trial of beloranib on obese subjects with Prader-Willi syndrome to assess eating behaviour, total body weight and safety over 52 weeks.. PI: Marta Ramon Krauel. Sep 2015 –

Selected publications

- Domingo-Almenara X, Brezmes J, Vinaixa M, Samino S, Ramirez N, Ramon-Krauel M, et al. eRah: A Computational Tool Integrating Spectral Deconvolution and Alignment with Quantification and Identification of Metabolites in GC/MS-Based Metabolomics. *Anal Chem* 2016. 88: 9821-9829. IF: 5,886 (Q1)
- Ejaz A, Martínez Guinó L, Goldfine AB, Ribas F, De Nigris V, Ribó S, et al. Dietary Betaine Supplementation Increases Fgf21 Levels to Improve Glucose Homeostasis and Reduce Hepatic Lipid Accumulation in Mice. *Diabetes* 2016. 65: 902-912. IF: 8,784 (Q1)
- Jimenez-Chillaron JC, Ramon-Krauel M, Ribo S, Diaz R. Transgenerational epigenetic inheritance of diabetes risk as a consequence of early nutritional imbalances. *Proc. Nutr. Soc.* 2016. 75: 78-89. IF: 4,703 (Q1)

Networks

- CIBERDEM

Neonatal physiopathology

Alfredo García-Alix, MD, PhD

Research in: Actors and causes that have an influence during the intrauterine, perinatal and neonatal periods.



Members

Senior researchers

Martin Iriondo, Isabel Iglesias, Marta Camprubi.

Researchers

Thais Agut, Ana Riverola, Africa Pertierra, Xavier Fanjul, Montse Izquierdo, Ana Martin Ancel

PhD students

Miguel Alsina Casanova, Ruth del Rio

Selected projects

- Diagnostic and prognostic application of the characterisation of neonatal arterial cerebral infarction with multimodal neuroimaging and lesion-behaviour mapping with voxel-based lesion-symptom maps. Instituto de Salud Carlos III (ISCIII). PI: Alfredo Garcia-Alix Pérez. Jan 2016 – Dec 2018
- Intelligent monitoring of preterm neonatal patients hospitalised in intensive care units. Ministerio de Economía Y Competitividad (MINECO). PI: Ana Riverola De Veciana. Jan 2015 – Jan 2016
- Early biomarkers of the safety and effectiveness of nutritional support in extremely preterm infants (EPI). Instituto de Salud Carlos III (ISCIII). PI: Isabel Iglesias Platas. Jan 2014 – Mar 2017.
- Randomised, double-blind, placebo-controlled phase 3 study to assess the effectiveness and safety of a human monoclonal antibody, REGN2222, for prevention of hRSV infection under medical care in preterm infants. PI: Martin Iriondo Sanz. Nov 2015 –

Selected publications

- Alarcon A, Martinez-Biarge M, Cabañas F, Quero J, Garcia-Alix A. A Prognostic Neonatal Neuroimaging Scale for Symptomatic Congenital Cytomegalovirus Infection. *Neonatology* 2016. 110: 277-285. IF: 2,754 (Q1)
- Boronat N, Aguar M, Rook D, Iriondo M, Brugada M, Cernada M, et al. Survival and Neurodevelopmental Outcomes of Preterms Resuscitated With Different Oxygen Fractions. *Pediatrics* 2016. IF: 5,196 (Q1)
- Del Rio R, Ochoa C, Alarcon A, Arnáez J, Blanco D, García-Alix A. Amplitude Integrated Electroencephalogram as a Prognostic Tool in Neonates with Hypoxic-Ischemic Encephalopathy: A Systematic Review. *PLoS One* 2016. IF: 3,057 (Q1)
- Rodriguez-Fanjul J, Balcells C, Aldecoa-Bilbao V, Moreno J, Iriondo M. Lung Ultrasound as a Predictor of Mechanical Ventilation in Neonates Older than 32 Weeks. *Neonatology* 2016. 110: 198-203. IF: 2,754 (Q1)

Networks

- BCNAtal

3.4. Infectious diseases and systemic inflammatory response in paediatrics

Coordinators:
Carmen Muñoz-Almagro
Claudia Fortuny

Vaccine-preventable diseases

Carmen Muñoz-Almagro, MD, PhD

Research in: epidemiologic surveillance of vaccine-preventable diseases, and diagnostic innovation.



Members

Senior researchers

Juan J Garcia-Garcia, Iolanda Jordan

Researchers

Cristian Launes, Pedro Brotons, Ana Valero-Rello

Postdoc-associate researchers

Mariona F de Sevilla, Cristina Esteva

Assistant researchers

Susana Hernandez, Maria Andres,
Miguel Garcia Fernández

PhD students

Miriam Triviño, Desiree Henares, Didac Casas-Alba

Technicians

Amaresh Pérez, Jesica Saucedo, Carles Cisneros

Collaborator researcher

Anny Camelo

Selected projects

- Research Group on Paediatric Infectious Diseases of the Centre for Biomedical Network Research on Epidemiology and Public Health (CIBERESP). Instituto de Salud Carlos III. PI: Carmen Muñoz-Almagro. Jan 2016 –
- Setting up a sentinel system to assess the burden of whooping cough in EU/EEA. Service Agreement. European Center of Disease Control (ECDC). PI: Overall consortium: Alain Moren, Epiconcept, France. Microbiological coordinator: Carmen Muñoz-Almagro. Mar 2016
- The Utility of the FilmArray Respiratory Panel Test for the Rational Use of Resources in the Pediatric Intensive Care Unit (PICU). BioFire Diagnostics, LLC. PI: Carmen Muñoz Almagro/Pedro Brotons. Jan 2016 – Jun 2017
- Multi-centre open randomised phase II/III study to determine the safety and effectiveness of

solithromycin in adolescents (from 12 to 17 years of age, both inclusive) and children (? 2 months to < 12 years of age) with suspected or confirmed community-acquired bacterial pneumonia. PI: Juan José García García. Sep 2016 –

Selected publications

- Brotons P, de Paz HD, Toledo D, Villanova M, Plans P, Jordan I, et al. Differences in Bordetella pertussis DNA load according to clinical and epidemiological characteristics of patients with whooping cough. J Infect. 2016 Apr;72(4):460-7. IF: 4,387(Q1)
- Del Amo E, Esteva C, Hernandez-Bou S, Galles C, Navarro M, Sauca G, et al. Serotypes and Clonal Diversity of Streptococcus pneumoniae Causing Invasive Disease in the Era of PCV13 in Catalonia, Spain. PLoS One. 2016 Mar 8;11(3):e0151125. IF: 3,057 (Q1)
- Godoy P, Garcia-Cenoz M, Toledo D, Carmona G, Caylà JA, Alsedà M, et al. Transmission of Pertussis in Households Working Group. Factors influencing the spread of pertussis in households: a prospective study, Catalonia and Navarre, Spain, 2012 to 2013. Euro Surveill. 2016 Nov 10;21(45).IF: 5,983 (Q1)
- Launes C, Casas-Alba D, Fortuny C, Valero-Rello A, Cabrerizo M, Muñoz Almagro C. Utility of FilmArray Meningitis/Encephalitis Panel during Outbreak of Brainstem Encephalitis Caused by Enterovirus in Catalonia in 2016. J Clin Microbiol. 2016 Dec 28;55(1):336-338. IF: 3,631 (Q2)

Networks

- CIBERESP
- SPIDNET
- Pertinent

3.4. Infectious diseases and systemic inflammatory response in paediatrics

Coordinators:
Carmen Muñoz-Almagro
Claudia Fortuny

AIDS

Claudia Fortuny, MD, PhD

Research in: Economic factors associated with vertically transmitted infections and especially with HIV infection.



Members

PhD student

Ferran Bossacoma, Silvia Simó, Rute Efigemio

Collaborator researcher

Dra. Emilia Sanchez Ruiz. (Universitt Ramon LLull),
Constanza Moren (IDIBAPS)

Selected projects

- Longitudinal study of the mutations of mitochondrial DNA in children exposed to HIV (infected and non-infected) and to antiretrovirals. Instituto de Salud Carlos III (ISCIII). PI: Claudia Fortuny Guasch. Jan 2014 – Dec 2017.
- Randomised trial on antiretroviral treatment with dolutegravir (DTG) compared with standard treatment (ST) in children with HIV infection who begin first-line or second-line treatment. PI: Claudia Fortuny Guasch. Aug 2016 –
- Open multi-centre study to assess the pharmacokinetics, safety and effectiveness of ombitasvir (OBV), paritaprevir (PTV), ritonavir (RTV), with or without dasabuvir (DSV) and with or without ribavirin (RBV) in paediatric patients with chronic infection by hepatitis C virus (HCV) genotype 1 or 4 (ZIRCON). PI: Claudia Fortuny Guasch. Jan 2016 -
- Randomised multi-centre researcher-masked phase 3 study with parallel groups to investigate the safety and effectiveness of fidaxomicin in oral suspension or tablets every 12 hours, and vancomycin in oral solution or capsules every 6 hours for 10 days, in paediatric subjects with diarrhoea associated with Clostridium difficile.. PI: Claudia Fortuny Guasch. Jan 2015 -

Selected publications

- Deyà-Martínez À, Fortuny C, Soler-Palacín P, Neth O, Sánchez E, Martín-Nalda A, et al. A Marker for Inflammation and Renal Function Among HIV-infected Children and Adolescents. *Pediatr Infect Dis J* 2016. 35: 196-200. IF: 2,587(Q1)
- Falcon-Neyra L, Palladino C, Navarro Gómez ML, Soler-Palacín P, González-Tomé MI, De Ory SJ, et al. Off-label use of rilpivirine in combination with emtricitabine and tenofovir in HIV-1-infected pediatric patients: A multicenter study. *Medicine (Baltimore)* 2016. IF: 2.133(Q2)
- Rodà D, Rozas L, Fortuny C, Sierra C, Noguera-Julian A. Impact of the Increased Recommended Dosage of Isoniazid on Pyridoxine Levels in Children and Adolescents. *Pediatr Infect Dis J* 2016. 35: 586-589. IF: 2.587(Q1)
- Soriano-Arandes A, Noguera-Julian A, Fortuny C; NENEXP Cohort Study Group. Impact of immigration on HIV mother-to-child transmission in Western Europe. *HIV Med.* 2016 Dec 30. IF: 3,341 (Q2)

Networks

- CoRISPE-cat and NENEXP Cohorts for Paediatric HIV Infection in Children and Mother-to-Child Transmitted HIV Infection in Catalunya (Spain)
- PENTA-Id Network
- CIBERESP. Grupo de Investigación CB15/00067

3.4. Infectious diseases and systemic inflammatory response in paediatrics

Coordinators:

Carmen Muñoz-Almagro
Claudia Fortuny

Tuberculosis

Antoni Noguera, MD, PhD

Adherence and toxicity associated with first-line anti-tuberculosis drugs in the paediatric age, on the pharmacokinetic characteristics of these drugs on newborns and pre-school children, on the new tuberculosis diagnostic techniques in healthy children, on children from high tuberculosis endemic areas and on immunosuppressed children, and on the clinical-epidemiological characteristics of tuberculosis in childhood in our areas



Members

Researchers

Maria Goretti López, Eneritz Velasco, Joan Vinent

Selected projects

- Open phase IIA clinical trial on absorption of a 10 mg/mL isoniazid suspension for the treatment of tuberculosis infection in patients under age 6 years. Instituto de Salud Carlos III (ISCIII). PI: Antoni Noguera Julián. Jan 2015 – Dec 2017
- Validation of the single daily dose of isoniazid at 10 mg/kg body weight in infants under age 3 months. Instituto de Salud Carlos III (ISCIII). PI: Antoni Noguera Julián. Jan 2014 – Dec 2017
- Multi-centre national retrospective-prospective study of the value of IGRAs in the diagnosis of adenitis by non-tuberculous mycobacteria, and of its different therapeutic approaches. PI: Antoni Noguera Julian. Jul 2015 – Jun 2018
- Diagnosis of tuberculosis infection in paediatric patients under treatment with tumour necrosis factor-alpha inhibitors: comparative study between the tuberculin test and IGRA tests. PI: Antoni Noguera Julian. Nov 2013 - Jun 2017

Selected publications

- De Luca A, Flandre P, Dunn D, Zazzi M, Wensing A, Santoro MM, et al. Improved darunavir genotypic mutation score predicting treatment response

for patients infected with HIV-1 subtype B and non-subtype B receiving a salvage regimen. *J Antimicrob Chemother* 2016. 71: 1352-1360. IF: 4.919 (Q1)

- Falcon-Neyra L, Palladino C, Navarro Gómez ML, Soler-Palacin P, González-Tomé MI, De Ory SJ, et al. Off-label use of rilpivirine in combination with emtricitabine and tenofovir in HIV-1-infected pediatric patients: A multicenter study. *Medicine (Baltimore)* 2016. IF: 2.133 (Q2)
- Gianesin K, Noguera-Julian A, Zanchetta M, Del Bianco P, Petrara MR, Freguja R, et al. Premature aging and immune senescence in HIV-infected children. *Aids* 2016. 30: 1363-1373. IF: 4.407 (Q1)
- Gijón M, Bellusci M, Petraitiene B, Noguera-Julian A, Zilinskaite V, Sanchez Moreno P, et al. Factors associated with severity in invasive community-acquired *Staphylococcus aureus* infections in children: a prospective European multicentre study. *Clin Microbiol Infect.* 2016 Jul;22(7):643.e1-6. IF: 4.575 (Q1)

Networks

- Tuberculosis Trials Consortium (TBTC), de los CDC de Atlanta (EEUU); sub-investigador del site 31 (Barcelona)
- PENTA Steering Committee (Paediatric European Network for the Treatment of AIDS)
- CIBER en Salud Pública (CIBERESP), Grupo de Investigación CB15/0006
- pTBnet (Red Europea para Estudio de la Tuberculosis Pediátrica)

3.4. Infectious diseases and systemic inflammatory response in paediatrics

Coordinators:
Carmen Muñoz-Almagro
Claudia Fortuny

Systemic inflammatory response in paediatric age

Jordi Anton, MD, PhD

Immunologic mechanisms involved in primary and secondary immunodeficiencies, autoinflammatory diseases and paediatric systemic autoimmune disease.



Members

Senior researcher

Laia Alsina

Researchers

Rosa Bou, Estibaliz Iglesias, Angela Deyà,
Mónica Piquer, Judith Sánchez

Assistant researchers

Violeta Bittermann, Clara Gimenez

PhD students

Joan Calzada, Ana Esteve

Selected projects

- Study of mechanisms involved in the clinical expressivity of patients with heterozygous mutations in the MEFV gene. Spanish Rheumatology Foundation Grant.. Beca Sociedad Española de Reumatología pediàtrica. Beca Investigación Hospital Sant Joan de Déu - Esplugues HSJD. PI: Jordi Antón López. May 2016 – May 2019
- WINDBIOME_Aerial micro-biome diversity and their role in Kawasaki disease. Fundació Privada Daniel Bravo Andreu. PI: Jordi Antón López. Dec 2015 – Dec 2018
- Modulating factors of primary immunodeficiency with susceptibility to severe infections by intracellular organisms in paediatric age.. Instituto de Salud Carlos III (ISCIII). PI: Laia Alsina Manrique de Lara. Jan 2016 – Dec 2018
- Study of primary and secondary defects of the IL12-Interferon gamma-TNF alpha pathway with susceptibility to infection by intracellular microorganisms. Instituto de Salud Carlos III (ISCIII). PI: Laia Alsina Manrique de Lara. Jan 2013 – Jun 2017

Selected publications

- García-López R, de la Morena-Barrio ME, Alsina L, Pérez-Dueñas B, Jaeken J, Serrano M, et al. Natural Killer Cell Receptors and Cytotoxic Activity in Phosphomannomutase 2 Deficiency (PMM2-CDG). PLoS One 2016. IF: 3,057 (Q1)
- Jordan I, Balaguer M, Esteban ME, Cambra FJ, Felipe A, Hernández L, et al. Glutamine effects on heat shock protein 70 and interleukines 6 and 10: Randomized trial of glutamine supplementation versus standard parenteral nutrition in critically ill children. Clin. Nutr. 2016. 35: 34-40. IF: 4,487 (Q1)
- Sánchez-Manubens J, Antón J, Bou R, Iglesias E, Calzada-Hernandez J, and the Kawasaki Disease in Catalonia Working Group. Incidence, epidemiology and clinical features of Kawasaki disease in Catalonia, Spain. Clin. Exp. Rheumatol. 2016. 34: 139-144. IF: 2,495 (Q2)
- Ter Haar NM, Jeyaratnam J, Lachmann HJ, Simon A, Brogan PA, Doglio M, et al., Paediatric Rheumatology International Trials Organisation (PRINTO) and Eurofever. The Phenotype and Genotype of Mevalonate Kinase Deficiency: A Series of 114 Cases From the Eurofever Registry. Arthritis Rheumatol 2016. 68: 2795-2805. IF: 6,009 (Q1)

Paediatric Intensive Care Unit research projects group

Francisco José Cambra, MD, PhD

We seek to base our research projects on the crossover concept of the critical patient. The most interesting research lines to date have been in the field of respiratory and infectious pathology.



Members

Principal researchers

Iolanda Jordán, Martí Pons

Postdoc–associate researchers

Mónica Balaguer, Elisabet Esteban

PhD students

Carme Alejandre, Georgina Armero, Sergio Benito, Sara Bobillo, Patricia Corniero, Laura Escuredo, Aida Felipe, Elena Fresán, Lluïsa Hernández, Nuria Millán, Luciana Rodríguez, Susana Segura, David Vila

Collaborator researchers

Jordi Aguiló (UAB), Montserrat Esquerda (IBB)

Selected projects

- Immunogenicity and safety of a quadrivalent meningococcal conjugate vaccine in an investigation on children aged 12 to 23 months PI: Iolanda Jordán García. Dec 2016 –
- Hacia una red de área corporal para medir niveles de estrés. Instituto de Salud Carlos III (ISCIII). PI: Francisco José Cambra Lasaosa. Jan 2013 – Jun 2017
- Towards a body area network to measure stress levels. Analysis of a diagnostic algorithm of severe pneumonia in paediatric critical patients by pulmonary ultrasonography and procalcitonin as a plan for improvement of healthcare quality. PI16/01040. 2016-2019. PI: Iolanda Jordan.

Selected publications

- Aguiló J, Ferrer-Salvans P, Garcia-Rozo A, Armario A, Corbi A, Cambra FJ, et al. Cuantificación del estrés: información incompleta más un exceso

de triunfalismo. Rev Neurol 2016. 62: 335-336. IF: 0,684 (Q4)

- Balaguer M, Alejandre C, Vila D, Esteban E, Carrasco JL, Cambra FJ, Jordan I. Bronchiolitis Score of Sant Joan de Déu: BROSJOD Score, validation and usefulness. Pediatr Pulmonol. 2017 Apr;52(4):533-539. IF: 2.850 (Q1)
- Jordan I, Balaguer M, Esteban ME, Cambra FJ, Felipe A, Hernández L, et al. Glutamine effects on heat shock protein 70 and interleukines 6 and 10: Randomized trial of glutamine supplementation versus standard parenteral nutrition in critically ill children. Clin. Nutr. 2016. 35: 34-40. IF: 4,487 (Q1)
- Launes C, Esteban E, Balaguer M, Alsina M, Cambra FJ, Jordan I. Procalcitonin-guidance reduces antibiotic exposure in children with nosocomial infection (PRORANI). J Infect. 2016 Feb;72(2):250-3. IF: 4,382 (Q1)

Networks

- Multicenter study: prophylaxis against thrombosis practice (PROTRACT). Estudio multicéntrico internacional. Colaboración anual. Entidad financiadora: Universidad de Yale
- Groupe français respiratoire GFRUP: Estudio multicéntrico PEDIAPART (Radiología en PICU)
- PALICC (Pediatric Acute Lung Injury Consensus Conference): PARDIE Estudio multicéntrico sobre SDRA liderado por R Khemani. Redacción de "ancillary study about NIV in ARDS"
- Respiratory group of ESPNIC society : PEMVEEC (conferencia consensus expertos enVM) PEDNIVES (estudio epidemiológico de VNI liderado. y VESPER studies.

Influence of the environment on child and adolescent welfare

Carles Luaces, MD, PhD

Research in: epidemiologic and clinical factors of childhood accidents. Differential diagnosis of child mistreatment. Early detection and secondary prevention of social-health issues in adolescence: drugs, sexuality and violence. Impact of external agents (radiation, pollution, etc.) on child health. Improvement of paediatric patient care in medical visits.



Members

Senior researchers

Victoria Trenchs, Gemma Claret, Ana I Curcoy

Researchers

Lidia Martínez, Andrea Aldemira, Sergi Navarro

Assistant researchers

Marta Simó; David Muñoz-Santanach

Selected projects

- Open trial on subjects from age 6 to under 18 years with pain requiring extended-release opioid treatment, to assess the safety and effectiveness of tapentadol LP vs. morphine LP, followed by open expansion. PI: Sergi Navarro Vilarrubi. Nov 2014 –

Selected publications

- Alisic E, Hoysted C, Kassam-Adams N, Landolt MA, Curtis S, Kharbanda AB, et al. Psychosocial Care for Injured Children: Worldwide Survey among Hospital Emergency Department Staff. *J Pediatr*. 2016;170:227-233. IF: 3,890 (Q1)
- Claret Teruel G, Sole Ribalta A, , Gonzalez Balenciaga M, Paniagua Calzon NM, Korta Murua J. Degree of compliance with health care quality criteria in the treatment of lower airway obstruction in Spanish pediatric emergency departments, reasons for noncompliance, and

recommendations for improvement. *Emergencias* 2016. 28: 167-172. IF: 2,917 (Q1)

- Martínez Sánchez L, Trenchs Sainz de la Maza V, Santibáñez BA, Nogué-Xarau S, Ferrer Bosch N, Garcia González E, et al. Impact of quality-indicator-based measures to improve the treatment of acute poisoning in pediatric emergency patients. *Emergencias* 2016. 28: 31-37. IF: 2,917 (Q1)
- Pascual C, Trenchs V, Hernández-Bou S, Catalá A, Valls AF, Luaces C. Outcomes and infectious etiologies of febrile neutropenia in non-immunocompromised children who present in an emergency department. *Eur J Clin Microbiol Infect Dis* 2016. 35: 1667-1672. IF: 2,857(Q2)

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)

Foetal environment and obstetrical complication

M Dolores Gómez Roig, MD, PhD

Research in risk of loss of foetal welfare • Preterm delivery • Premature newborn • Foetal growth retardation.



Members

Researcher

Laura Almeida, Isidora Andujar, Carolina Esteve, Jaume Ignasi Miñano, Isabel Miró, Elisabet Palacios, M José Tojo

Postdoc – associate researcher

Silvia Irene Ferrero, Edda Marimon, Edurne Mazarico, Miriam Pérez, Joan Sabrià, Jose M Boguña, Sergio Cabré

Selected projects

- Assessment of prenatal exposure to abuse substances and environmental toxic substances in foetuses with intrauterine growth restriction and its influence on placental pathology. Hospital Sant Joan de Déu - Esplugues HSJD. PI: Maria Dolores Gómez Roig. Oct 2015 - Sep 2018
- SAMID NETWORK: Maternal-infantile and developmental health. Instituto de Salud Carlos III (ISCIII). PI: Maria Dolores Gómez Roig. Jan 2013 – Sep 2017
- SGR 2014: Maternal-foetal and neonatal medicine mixed group. Hospital Clínic de Barcelona and Hospital Sant Joan de Déu. Agaur - Agència de Gestió d'Ajuts Universitaris i de Recerca. PI: Maria Dolores Gómez Roig. Jan 2014 – Apr 2017
- Environmental Exposure And Fetal Growth Restriction. Sally Sabra, MD. Erasmus Mundus PhD in Fetal and Perinatal Medicine. Fetal i+D Fetal Medicine Research Center, IDIBAPS BCNatal. Barcelona Center for Maternal Fetal and Neonatal Medicine. Hospital Clínic and Hospital Sant Joan de Déu, University of Barcelona. PI : Dr.Maria Dolores Gomez Roig, Dr.Eduard Gratacós. Research line: Environmental and Obstetric Diseases. May 2015 -

Selected publications

- Fernández-Blanco L, Peguero A, Eixarch E, Oltra M, Mazarico E, Gómez Roig M, et al. EP13.01: Pregnancy and perinatal outcomes in a cohort of second trimester intrauterine growth restricted (IUGR) fetuses. Ultrasound Obstet Gynecol 2016. 48 Suppl 1: 320-0. IF: 4,254 (Q1)
- García B, Llorba E, Valle L, Gómez-Roig MD, Juan M, Pérez-Matos C, et al. Do knowledge of uterine artery resistance in the second trimester and targeted surveillance improve maternal and perinatal outcome? UTOPIA study: a randomized controlled trial. Ultrasound Obstet Gynecol 2016. 47: 680-689. IF: 4,254 (Q1)
- Gómez-Roig MD, Mazarico E, Cárdenas D, Fernandez MT, Díaz M, Ruiz de Gauna B, et al. Placental 11 β -Hydroxysteroid Dehydrogenase Type 2 mRNA Levels in Intrauterine Growth Restriction versus Small-for-Gestational-Age Fetuses. Fetal Diagn Ther 2016. 39: 147-151. IF: 2,700 (Q1)
- Mazarico E, Martínez-Cumplido R, Díaz M, Sebastiani G, Ibáñez L, Gómez-Roig MD. Postnatal Anthropometric and Body Composition Profiles in Infants with Intrauterine Growth Restriction Identified by Prenatal Doppler. PLoS One 2016. IF: 3,057(Q1)

Networks

- Red SAMID-RETIC
- BCNatal



4

Mental Health Research

4.1. Mental Health

4.2. Epidemiology

Clinical, cognitive and psychosocial bases of severe mental disorders

Susana Ochoa, MD, PhD

The evaluation of the clinical, psychosocial and neuropsychological characteristics of people with a severe mental disorder will allow us to identify more precisely the treatment needs in each case.



Members

Researchers

Ruth Cunill, Regina Vila, Núria del Cacho, María Trinidad Peláez, Marcia Irazabal, Jorge Cuevas, Hilari Andres, Gemma Escuder, Francisco Martínez, Emma Casas, Belen Ramos, Anna Butjosa, Alexandrina Foix, Sonia Vilamala

Selected projects

- Assessment of the treatment needs of users of the Psychosocial Rehabilitation Services, from the standpoint of the users themselves, their families and healthcare professionals.. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Sonia Vilamala Anton. Feb 2013 – Dec 2016
- Effectiveness of individualised metacognitive training (MCT+) in patients with brief psychotic disorder. Instituto de Salud Carlos III (ISCIII). PI: Susana Ochoa Güerre. Jan 2015 – Dec 2017
- Ajut de recerca PSSJD - Antipsychotic treatment with secondary sexual and reproductive effects. Cross-sectional and follow-up study at 3 months. Beneficiary: Nuria del Cacho. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Núria del Cacho Ortega. Sep 2013 – Oc 2016
- Longitudinal study of the evolution of the needs of subjects attended to in penitentiary psychiatric units. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Gemma Escuder Romeva. Jan 2015 – Dec 2016

Selected publications

- Butjosa A, Gómez-Benito J, Huerta-Ramos E, Del Cacho N, Barajas A, Baños I, Usall J, Dolz M, Sánchez B, Carlson J, Maria Haro J, GENIPE group, Ochoa S. Incidence of stressful life events and influence of sociodemographic and clinical variables on the onset of first-episode psychosis.. Psychiatry Res 2016. 245: 108-115. IF:2,466 (Q2)
- Fusté M, Meléndez-Pérez I, Villalta-Gil V, Pinacho R, Villalmanzo N, Cardoner N, Menchón JM, Haro JM, Soriano-Mas C, Ramos B. Specificity proteins 1 and 4, hippocampal volume and first-episode psychosis.. Br J Psychiatry 2016. 208: 591-592. IF:7,060 (Q1)
- Núñez C, Ochoa S, Huerta-Ramos E, Baños I, Barajas A, Dolz M, Sánchez B, Del Cacho N, GENIPE Group, Usall J. Cannabis use and cognitive function in first episode psychosis: differential effect of heavy use.. Psychopharmacology 2016. 233: 809-821. IF:3,540 (Q1)
- Stephan-Otto C, Siddi, Sara, Cuevas Esteban, Jorge, Senior, Carl, Garcia-Alvarez, R, Cambra Martí, Maria Rosa, Usall J, Brébion G. Neural activity during object perception in schizophrenia patients is associated with illness duration and affective symptoms. Schizophr Res 2016. 175: 27-34. IF:4,453 (Q1)

Networks

- CIBERSAM

4.1. Mental Health

Coordinators:
Judit Usall
Susana Ochoa

Mental health interventions

Judith Usall, MD, PhD

The current pharmacological and psychological treatments are not effective in all the people who suffer schizophrenia. This research group conducts clinical trials on the treatment of resistant schizophrenia or schizophrenia with predominant negative pharmacological or psychological symptoms.



Members

Principal researchers

Sonia Vilamala, Raquel López, Marta Coromina, Maria Soledad Escobar, Mar Garcia, M Elena Huerta, Gemma Escartin, Eva Miquel, Elia Vila, Elena Rubio, Belen Arranz, Adela Berrozpe, Ines Campo, Antoni Manuel Alba

Selected projects

- m-RESIST_Mobile Therapeutic Attention for Patients with Treatment Resistant Schizophrenia. European Commission. PI: Judith UsallRodie. Jan 2015 – Dec 2017
- Assessment of the effectiveness of community assertive treatment addressed to persons with severe mental disorder who are users of the Housing First programme. Beneficiaria: Inés Campo Ferreira. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Alexandrina Foix Sanjuan. Sep 2015 – Sep 2017
- Aspects of the approach to patients with incipient psychosis relating to improved clinical and social prognosis one year after. Assessment of the Healthcare Park's new incipient psychosis programme. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: María Trinidad Peláez Martínez. Jan 2015 – Dec 2016
- Clinical and neurobiological determinants of second episodes of schizophrenia. Longitudinal study of first psychotic episodes. Instituto de Salud Carlos III (ISCIII).PI: Judith UsallRodie. Jan 2012 – Jun 2016

Selected publications

- Labad J, Martorell L, Huerta-Ramos E, Cobo J, Vilella E, Rubio-Abadal E, et al, RALOPSYCAT Group, Usall J. Pharmacogenetic study of the effects of raloxifene on negative symptoms of postmenopausal women with schizophrenia: A double-blind, randomized, placebo-controlled trial. *EurNeuropsychopharmacol* 2016. 26: 1683-1689. IF:4,409 (Q1)
- Rubio-Abadal E, Del Cacho N, Saenz-Navarrete G, Arranz B, Cambra RM, Cuadras D, et al, PROLACT Group. How Hyperprolactinemia Affects Sexual Function in Patients Under Antipsychotic Treatment. *J ClinPsychopharmacol* 2016. 36: 422-428. IF:3,000 (Q2)
- Rubio-Abadal E, Usall J, Barajas A, Carlson J, Iniesta R, Huerta-Ramos E, et al. Relationship between menarche and psychosis onset in women with first episode of psychosis. *Early Interv.Psychiatry* 2016. 10: 419-425. IF:2,889 (Q2)
- Usall J, Huerta-Ramos E, Labad J, Cobo J, Núñez C, Creus M, et al, RALOPSYCAT Group. Raloxifene as an Adjunctive Treatment for Postmenopausal Women With Schizophrenia: A 24-Week Double-Blind, Randomized, Parallel, Placebo-Controlled Trial. *Schizophr Bull* 2016. 42: 309-317. IF:7,757 (Q1)

Networks

- CIBERSAM

Cognitive and neurobiological correlates of psychotic and affective symptoms in severe mental disorder

Gildas Brebion, PhD

The line is mainly aimed at studying the relationship between mental disorder and cognition. Our research is based on cognitive and neuroimaging tests, both functional and structural.



Members

Group leader

Christian Stephan-Otto Attolini

Researchers

Christian Núñez Leánez

Collaborator researcher

Carl Senior (Aston University, UK)

Selected projects

- Miguel Servet tipo II - Beneficiario: Gildas Brébion. Instituto de Salud Carlos III (ISCIII). PI: Gildas Brebion. Jan 2016 – Jan 2019
- Neurofunctional bases of abnormal inner speech in verbal hallucinations. Instituto de Salud Carlos III (ISCIII). PI: Gildas Brebion. Jan 2015 – Jan 2017
- PSSJD research grant - Unusual Psychic Experiences and Jumping to Conclusions in the clinical and general populations. Beneficiari: Gildas Brebion. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Gildas Brebion. Feb 2014 – Dec 2016
- Miguel Servet - Hallucinations and Source Memory Impairment in Schizophrenia Patients and Non-Clinical Individuals. Beneficiary: Gildas Brebion. Instituto de Salud Carlos III (ISCIII). PI: Gildas Brebion. Jan 2010 – Jan 2016

Selected publications

- Brébion G, Stephan-Otto C, Ochoa S, Roca M, Nieto L, Usall J. Impaired Self-Monitoring of Inner Speech in Schizophrenia Patients with Verbal Hallucinations and in Non-clinical Individuals Prone to Hallucinations. *Front. Psychol.* 2016. 7: 1381-0. IF: 2.463 (Q1)
- Stephan-Otto C, Siddi S, Cuevas Esteban J, Senior C, Garcia-Álvarez R, Cambra-Martí MR, Usall J, Brébion G. Neural activity during object perception in schizophrenia patients is associated with illness duration and affective symptoms. *Schizophr Res* 2016. 175: 27-34. IF: 4.453 (Q1)

4.1. Mental Health

Coordinators:
Judith Usall
Susana Ochoa

Child and youth mental health research

Montserrat Dolz, MD, PhD

The general objective of our line of research is focused on the study of the clinic of different psychiatric disorders in childhood / adolescence, with special emphasis on neurodevelopmental disorders. Childhood onset psychosis • Attention deficit hyperactivity disorder (ADHD) • Autistic spectrum disorders.



Members

Senior researchers

Jordi Navarra, José Angel Alda, Josep Lluís Matalí, Eduard Serrano, Fernando Lacasa

Researchers

M^a Ángeles Mairena García, Maria Diez, Daniel Muñoz, Marta Pardo, Mar Alvarez

Assistant researchers

Jordina Tor, Ivan Cester

PhD students

Laura Puigerver, Claudia Caprile

Collaborator researcher

Montserrat Deportós

Selected projects

- Multi-centre longitudinal study of neurobiological markers of stress in children and adolescents with psychosis risk syndrome and transition to psychosis.. Instituto de Salud Carlos III (ISCIII). PI: Montserrat Dolz Abadia. Jan 2016 – Dec 2018
- Characterisation of the spatial recoding of acoustic pitch and intensity under normal and dysfunctional psychological conditions. Ministerio de Economía Y Competitividad (MINECO). PI: Jordi Navarra Ordoño. Jan 2016 – Dec 2018
- Placebo-controlled trial on subjects with high risk of psychosis compared with omega-3 fatty acids in Europe. PI: Montserrat Dolz Abadia. Dec 2016 –
- Influence of a mindfulness programme on the nuclear symptoms, executive functions and hypothalamus-hypophysis-adrenal axis (HPA) in children recently diagnosed with attention deficit hyperactivity disorder (ADHD). Beca de Recerca de l'Hospital Sant Joan de Déu. PI: J.A. Alda.

Selected publications

- Alda JA, Muñoz-Samons D, Tor J, Merchán-Naranjo J, Tapia-Casellas C, Baeza I, et al. Absence of Change in Corrected QT Interval in Children and Adolescents Receiving Antipsychotic Treatment: A 12 Month Study. *J Child Adolesc Psychopharmacol* 2016. 26: 449-457. IF: 2.149 (Q2)
- Butjosa A, Gómez-Benito J, Huerta-Ramos E, Del Cacho N, Barajas A, Baños I, et al. Incidence of stressful life events and influence of sociodemographic and clinical variables on the onset of first-episode psychosis. *Psychiatry Res* 2016. 245: 108-115. IF: 2.466 (Q2)
- Núñez C, Ochoa S, Huerta-Ramos E, Baños I, Barajas A, Dolz M, et al. GENIPE Group. Usall J. Cannabis use and cognitive function in first episode psychosis: differential effect of heavy use. *Psychopharmacology* 2016. 233: 809-821. IF: 3.540 (Q2)
- Rubio-Abadal E, Usall J, Barajas A, Carlson J, Iniesta R, Huerta-Ramos E, et al. Relationship between menarche and psychosis onset in women with first episode of psychosis. *Early Interv. Psychiatry* 2016. 10: 419-425. IF: 2.889 (Q1)

Networks

- CIBERSAM

4.1. Mental Health

Coordinators:
Judith Usall
Susana Ochoa

Innovative interventions in Fibromyalgia

Juan Vicente, PhD

Research in: Cost-effectiveness of pharmacological and non-pharmacological treatments for fibromyalgia syndrome • Biomarkers of fibromyalgia syndrome • Process and mechanism oriented research in chronic pain • Psychometric analysis of patient-reported outcome measures in chronic pain patients.



Members

Postdoc–associate researcher

Albert Feliu-Soler

PhD Students

Adrián Pérez-Aranda, Laura Andrés-Rodríguez

Collaborator researchers

Antonio I. Cuesta-Vargas, Francesco D'Amico, Raffaella Tuccillo, Rita Fernández-Vergel

Selected projects

- Miguel Servet Tipo I (Contrato) Beneficiario: Juan Vicente Luciano. Instituto de Salud Carlos III (ISCIII). PI: Juan Vicente Luciano Devis. Jan 2015 – Jan 2020
- 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). PI: Juan Vicente Luciano Devis. Jan 2015 – Dec 2017
- Neurobiological effects of a mindfulness-based intervention (MBSR) vs. a psychoeducational programme (FibroQoL) in patients with fibromyalgia (EUDAIMON Project). Instituto de Salud Carlos III (ISCIII). PI: Juan Vicente Luciano Devis. Jan 2016 – Dec 2018

Selected publications

- Feliu-Soler A, Borràs X, Peñarrubia-Maria MT, Rozadilla-Sacanell A, D'Amico F, Moss-Morris R, et al. Cost-utility and biological underpinnings of Mindfulness-Based Stress Reduction (MBSR) versus a psychoeducational programme (FibroQoL) for fibromyalgia: a 12-month randomised controlled trial (EUDAIMON study). *BMC Complement Altern Med* 2016. 16: 81-0. IF:1,987 (Q1)
- Feliu-Soler A, Soler J, Luciano JV*, Cebolla A, Elices M, Demarzo M, et al. Psychometric properties of the spanish version of the nonattachment scale (NAS) and its relationship with mindfulness, decentering, and mental health. *Mindfulness* 2016. 7(5): 1156-1169. IF:3,317 (Q1)
- Gumà-Uriel L, Peñarrubia-Maria MT, Cerdà-Lafont M, Cunillera-Puertolas O, Almeda-Ortega J, Fernández-Vergel R, et al. Impact of IPDE-SQ personality disorders on the healthcare and societal costs of fibromyalgia patients: a cross-sectional study. *BMC Fam Pract* 2016. 17: 61-0. IF:1,641 (Q2)
- Luciano JV, Garcia Forero C, Cerdà Lafont M, Peñarrubia Maria MT, Fernández Vergel R, Ruiz JM, et al. Functional Status, Quality of Life, and Costs Associated With Fibromyalgia Subgroups: A Latent Profile Analysis. *Clin. J. Pain* 2016. 32: 829-840. IF:2,712 (Q2)

Networks

- Coordinator participates in the redIAPP

Epidemiology of aging: factors associated with healthy aging

Josep M Haro, MD, PhD

Research in the factors associated with healthy ageing, with a special focus on mental disorders. We conduct and use data from population cohorts to better understand what determines (both from a risk factor and protective perspective) the health status of a person as she/he gets older and which are the critical time points when these factors have most influence.



Members

Principal

Stefanos Tyrovolas

Researchers

Ziggi Santini, Sara Siddi, Maria Victoria Maliandi, Laia Egea, Ellen Vorstenbosch, Carla Obradors, Blanca Mellor, Albert Sánchez

Selected projects

- MULTIMODE I_Multimodal strategies to promote a healthy brain in aging: Innovative evidence-based tools. European Commission. PI: Josep Maria Haro Abad. Jan 2016 – Dec 2016
- ATHLOS_Ageing Trajectories of Health: Longitudinal Opportunities and Synergies. European Commission. PI: Josep Maria Haro Abad. May 2015 – Mar 2020
- ComMent_Training for COMMunity MENTAL healthcare. European Commission. PI: Josep Maria Haro Abad. Sep 2014 – Aug 2017
- MARATONE_Marie Curie International Training Network - MARATONE Mental Health Training through Research Network in Europe. Beneficiary: Josep Maria Haro. European Commission. PI: Josep Maria Haro Abad. Apr 2013 – Mar 2017

Selected publications

- Lara E, Haro JM, Tang MX, Manly J, Stern Y. Exploring the excess mortality due to depressive symptoms in a community-based sample: The role of Alzheimer's Disease. *J Affect Disord* 2016. 202: 163-170. IF: 3,570 (Q1)
- Olaya B, Moneta MV, Koyanagi A, Lara E, Miret M, Ayuso-Mateos JL, et al. The joint association of depression and cognitive function with severe disability among community-dwelling older adults in Finland, Poland and Spain. *Exp Gerontol* 2016. 76: 39-45. IF: 3,350 (Q1)
- Santini ZI, Fiori KL, Feeney J, Tyrovolas S, Haro JM, Koyanagi A. Social relationships, loneliness, and mental health among older men and women in Ireland: A prospective community-based study. *J Affect Disord* 2016. 204: 59-69. IF: 3,570 (Q1)
- Tyrovolas S, Koyanagi A, Panagiotakos DB, Haro JM, Kassebaum NJ, Chrepa V, Kotsakis GA. Population prevalence of edentulism and its association with depression and self-rated health. *Sci Rep* 2016. 6: 37083-0. IF: 5,228 (Q1)

Networks

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

Impact, risk and prevention of mental disorders

Ai Koyanagi, MD, PhD

Our interdisciplinary group, which includes psychiatrists, psychologists, statisticians, sociologists and basic researchers, studies the factors that provide protection against or increase the risk of mental disorders, and treatments for the people who suffer them, for the purpose of improving preventive and therapeutic strategies.



Members

Principal

Beatriz Olaya Guzmán

Researchers

Maria Victoria Moneta, Ivet Bayes Marín,
Elvira Lara Pérez

Selected projects

- Pseudo-psychotic experiences and health: results of epidemiologic studies. Instituto de Salud Carlos III (ISCIII). PI: Ai Koyanagi. Jan 2016 – Dec 2018
- Miguel Servet - Neuropsychiatric disorders in the elderly. Beneficiario: Dra. Ai Koyanagi. Instituto de Salud Carlos III (ISCIII). PI: Ai Koyanagi. Mar 2014 - Mar 2019
- Neuropsychiatric disorders in the elderly. Instituto de Salud Carlos III (ISCIII). PI: Ai Koyanagi. Mar 2014 – Dec 2017

Selected publications

- Koyanagi A, Oh H, Stickley A, Haro JM, DeVylder J. Risk and functional significance of psychotic experiences among individuals with depression in 44 low- and middle-income countries. *Psychol Med* 2016. 46: 2655-2665. IF: 5,491 (Q1)
- Koyanagi A, Stickley A, Haro JM. Psychotic symptoms and smoking in 44 countries. *Acta Psychiatr Scand* 2016. 133: 497-505. FI: 6,128 (Q1)
- Koyanagi A, Stickley A, Haro JM. Subclinical psychosis and pain in an English national sample: The role of common mental disorders. *Schizophr Res* 2016. 175: 209-215. IF: 4,453 (Q1)
- Lara E, Haro JM, Tang MX, Manly J, Stern Y. Exploring the excess mortality due to depressive symptoms in a community-based sample: The role of Alzheimer's Disease. *J Affect Disord* 2016. 202: 163-170. IF: 3,570 (Q1)

Networks

- CIBERSAM

Healthcare technologies and results in primary care and mental health (PRISMA)

Antoni Serrano, MD, PhD

Research in: Economic evaluation of health care services: Efficiency of different treatments or interventions for health problems are evaluated at the Catalan Health context. Initial medication non adherence: the prevalence and economical health consequences of initial medication non adherence in Primary care are being evaluated and new interventions are designed and tested.



Members

Senior Researcher

Maria Rubio Valera

Postdoc–associate researcher

Enric Vicens Pons

PhD students

Ignacio Aznar Lou, Maria Montserrat Gil Girbau, Ana Gabriela Murrugarra Centurió, Carles Vilaplana Carnerero

Researchers

Luisa Baladón Higuera, Vanessa Barneda, Laura González Suñer, Maria Iglesias González, Cristina López Ortiz

Collaborators researchers

Ana Fernández Sánchez, Ana Maria Jove Massó, Martin Knapp, Maria Antonia March Pujol, Paul McCrone, Juan Manuel Mendive Arbeloa, Maria Teresa Peñarrubia Maria, Ramón Sabes Figuera, Lluís Salvador Carulla

Selected projects

- Mental Health Training Through Research Network In Europe (MARATONE). Period: 2013 to 2017. Funded by 7MP European Union FP7-PEOPLE-2012-ITN (316795).
- Financial assessment of a complex multi-risk intervention to promote healthy behaviours in persons aged 45-75 years treated in primary healthcare: Econ-EIRA3 study. Instituto de Salud Carlos III (ISCIII). PI: Antonio Serrano Blanco. Jan 2016 – Decr 2018
- PRE-test-STROKE_Personalizing REperfusion Therapeutic Strategies in Stroke. Instituto de Salud Carlos III (ISCIII). PI: Antonio Serrano Blanco. Jan 2016 – Dec 2019

- The problem of non-initiation of pharmacological treatment: mixed-methods assessment. Instituto de Salud Carlos III (ISCIII). PI: Maria Rubio Valera. Jan 2015 – Dec 2017

Selected publications

- Baladón L, Rubio-Valera M, Serrano-Blanco A, Palao DJ, Fernández A. Gender differences in the impact of mental disorders and chronic physical conditions on health-related quality of life among non-demented primary care elderly patients. Qual Life Res 2016. 25(6): 1461-1474. IF: 2,429 (Q1)
- Bellón JÁ, Conejo-Cerón S, Moreno-Peral P, King M, Nazareth I, Martín-Pérez C, et al.. Intervention to Prevent Major Depression in Primary Care: A Cluster Randomized Trial. Ann Intern Med 2016. 164: 656-665. IF: 16,593 (Q1)
- Rubio-Valera M, Fernández A, Evans-Lacko S, Luciano JV, Thornicroft G, Aznar-Lou I, Serrano-Blanco A. Impact of the mass media OBERTAMENT campaign on the levels of stigma among the population of Catalonia, Spain. Eur Psychiatry 2016. 31: 44-51. IF: 3,439 (Q1)
- Rubio-Valera M, Pujol MM, Fernández A, Peñarrubia-Maria MT, Travé P, Del Hoyo YL, Serrano-Blanco A. Corrigendum to: "Evaluation of a pharmacist intervention on patients initiating pharmacological treatment for depression: A randomized controlled superiority trial" [Eur. Neuropsychopharmacol. 23(2013)1057-1066]. Eur Neuropsychopharmacol 2016. 26: 1085-0. IF: 4,409 IF: 3,912 (Q1)

Networks

- CIBERESP
- Red IAPP



5

General Medicine Research

Patient safety

Ramón Mir, MD

Research in: Safety Culture and Safe Practices Validated.



Personal
researcher



Publications
with IF



Points of
impact factor

Members

Postdoc-associate researcher

Maria Luisa de la Puente Martorell

Technicians

Olga Llado Giner, Montserrat Escute Amat, Jose Miguel Ortiz Moreno, Antonio Cruz Antolin

Collaborator researcher

Anna Falcó Pegueroles

Selected publications

- Rubio-Valera M, Huerta-Ramos E, Baladón L, Aznar-Lou I, Ortiz-Moreno JM, Luciano JV, et al. Qualitative study of the agitation states and their characterization, and the interventions used to attend them. Actas Esp Psiquiatr 2016. 44: 166-177. IF: 0,813 (Q3)

Research and innovation in surgery

Oscar Izquierdo, MD, PhD

This research group focuses on disorders in which surgical treatment is involved at some point in the care process. It is a multidisciplinary group, formed by people from various fields of medicine who work in coordination in the different areas of study.



Members

Researchers

Rolando Anastasio Orbeal Saenz, Raul De Diego Burillo, Pere J. Gris Garriga, Maria Rosa Cambra Martí, Manuel Céspedes Pérez, Manel Carreras Martínez, Laura Garcia De Miguel, Laia Estalella Mercadé, Judit Hermoso Bosch, Juan Castellanos Robles, Josep Ramón Mendez Paredes, Jose Luis López Negre, Jordi Comajuncosas Camp, Joan Urgellés, Jaime Jimeno Fraile, Helena Vallverdú Cartié, Eva Maria Martínez Franco

Selected projects

- Patients with residual lesions after an obstetric lesion of the anal sphincter complex: influence of functionality of pelvic floor muscles on incidence of anal incontinence symptoms. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Eva Maria Martínez Franco. Jan 2016 – Dec 2017
- PSSJD research grant – Effect of the exoneurolysis of peripheral nerves on the appearance of ulcers in diabetic polyneuropathy. Beneficiari: Oscar Izquierdo. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Oscar Izquierdo Corres. Feb 2014 – Decr 2016
- PSSJD research grant – Randomised prospective study on the usefulness of a change of position of the umbilical trocar with respect to the incidence of surgical wound infection in laparoscopic cholecystectomy. Beneficiary: Judith Hermoso. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Judit Hermoso Bosch. Feb 2014 – Dec 2016

- Relation between serum levels of progesterone, estradiol and relaxin and the appearance of faecal incontinence symptoms during pregnancy and the postpartum period. Instituto de Salud Carlos III (ISCIII). PI: Eva Maria Martínez Franco. Jan 2014 – Dec 2017

Selected publications

- Martínez Franco E, Rojo N, Amat Tardiu L. Obturator abscess with spread to the thigh muscles after a transobturator tension-free vaginal tape. *Int Urogynecol J* 2016. 27: 973-976. IF: 1,961 (Q2)
- Stephan-Otto C, Siddi, Sara, Cuevas Esteban, Jorge, Senior, Carl, Garcia-Alvarez, R, Cambra Martí, Maria Rosa, Usall J, Brébion G. Neural activity during object perception in schizophrenia patients is associated with illness duration and affective symptoms. *Schizophr Res* 2016. 175: 27-34. IF: 4,453 (Q1)

Clinical and epidemiologic research on high-prevalence disorders

Luis Lores, MD, PhD

This research group forms a multidisciplinary team of researchers who work on high-prevalence disorders. These are disorders with a high morbidity/mortality, representing an increasingly higher percentage of activity in all hospitals. The group comprises specialists with long clinical experience who commonly work with disorders of this type.



Members

Researchers

Xavier Casas García, Rosana Hernando Salvador, Pablo Marchena Iglesias, Nuria Berrocal Izquierdo, Mireia Junyent Priu, M^a Araceli Gonzalez Cuevas, M.Teresa Pascual Pape, Julián Rodríguez Larrea, Juan Manuel Nicolas Valero, Jaime Llopis Cañameras, Esmael Alibakhshi, Ernesto Bragulat Baur, Elisabeth Arellano Marcuello, Elisabet Rovira Prat, Edwin Percy Pesantes Sangay, César Romero Menor, Bernabé Robles Del Olmo, Antonio Callen Soto, Anna Capellà Llovera, Alejandra Fernández Trujillo

Selected projects

- Detection of volatile organic compounds in patients diagnosed with lung cancer. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: M.Teresa Pascual Pape. Jan 2016 – Dec 2017
- Impact of ageing on the expression of key genes of mitochondria in skeletal muscle. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Luis Lores Obradors. Jan 2015 – Dec 2016
- Study of personal networks as a strategy against stress in caregivers of Alzheimer patients. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. PI: Jaime Llopis Cañameras. Feb 2013 – Decr 2016

- Open prospective randomised phase IV clinical trial to assess the usefulness of measuring nitric oxide in exhaled air in the therapeutic handling of adult patients with light asthma. Ministerio de Sanidad y Política Social. PI: Luis Lores Obradors. Jan 2012 – Jun 2016

Selected publications

- Robles Del Olmo B, Garcia Collado D. Retos éticos del hallazgo de consciencia encubierta con neuroimagen en estados vegetativos. Med Clin (Barc) 2016. 146: 218-222. IF: 1,267 (Q2)
- Santin M, Morandeira-Rego F, Alcaide F, Rabuñal R, Anibarro L, Agüero-Balbin R, et al. Detection of interleukin-2 is not useful for distinguishing between latent and active tuberculosis in clinical practice: a prospective cohort study. Clin Microbiol Infect 2016. IF: 4,575 (Q1)



6

Social Research

Research group on nursing, education and society

Núria Roca, PhD and Juan Roldán, PhD

Research in: Social action • Identity trials • Education Innovation • Healthcare methodology.



Members

Senior researcher

Anna Ramió Jofré

Researchers

Amèlia Guilera Roche, Esther Insa Calderon, Laura Martínez Rodríguez, Dolors Miguel Ruiz, Maria José Morera Pomarede, Júlia Roura Masmitjà

PhD student

Bàrbara Hurtado Pardos, Carlos Nebot Bergua, Olga Rodrigo Pedrosa

Internal Collaborators

Marta Callaris Roca, Anna Cano Parellada, Mariona Farres Tarafa, Rosa Gaya Cortadellas, Dolores Royo Aran, Laura Serradesanferm González, Carme Vega Monteagudo

Selected projects

- Mental illness and social stigma in Santo Domingo (Piura department). An anthropological view. Campus Docent Sant Joan de Déu- Fundació Privada. PI: Núria Roca Capara. Jun 2015 – Jun 2017
- Study of the attitudes and behaviours with respect to the institutional values of the Hospitaler Order of Saint John of God, Aragon-San Rafael Province. Campus Docent Sant Joan de Déu- Fundació Privada. PI: Anna Ramió Jofre. May 2012 – May 2016
- Adaptation and validation of the questionnaire on self-care requirements according to the Dorothea Orem nursing model for the hospitalised population diagnosed with schizophrenia. Col·legi Oficial d'Infermeria de Barcelona. PI: Juan Francisco Roldán Merino. Jan 2010 – Sep 2016

- Contributions of Catalan nurses to the introduction of nursing into the University. Col·legi Oficial d'Infermeria de Barcelona. PI: Anna Ramió Jofre. Jan 2010 – Dec 2016

Selected publications

- Estrada-Masllorens JM, Guix-Comellas EM, Cabrera-Jaime S, Galimany Masclans J, Roldán-Merino J, Lluch-Canut T. Analysis of University Postgraduate Nursing Education in Spain. J Nurs Educ. 2016; 55(11):615-622. IF 1,060 (Q3).
- Moreno-Arroyo MC, Puig-Llobet M, Falcó-Pegueroles A, Lluch-Canut MT, Garcia IC, Roldán-Merino J. What is the perception of biological risk by undergraduate nursing students? Revista Ibero-americana de Enfermagem. 2016. 24: e2715. IF: 0,534 (Q4).
- Moreno-Poyato AR, Montesó-Curto P, Delgado-Hito P, Suárez-Pérez R, Aceña-Dominguez R, Carreras-Salvador R, et al. The Therapeutic Relationship in Inpatient Psychiatric Care: A Narrative Review of the Perspective of Nurses and Patients. Arch Psychiatr Nurs. 2016 Dec;30(6):782-787. IF 1.217 (Q3)



7

Activities and
Scientific seminars

Activities and Scientific seminars

- January, 12. Neurodegenerative diseases with brain iron accumulation.
- January, 26. De-escalating antibiotics in critical patients.
- January, 29. 1st National Congress on Menkes Disease.
- February, 9. Impact of a multifactorial intervention on reduction of nosocomial infection in PICUs. Usefulness of a multi-centre register of hospital-acquired infections.
- February, 23. Cerebral artery infarction. Diagnostic and prognostic application of the characterisation of cerebral artery infarction using multimodal neuroimaging and lesion-behaviour mapping by voxel-based lesion-symptom mapping.
- March, 8. Diffuse intrinsic pontine glioma (DIPG): immunological characterisation and immunotherapeutic treatment proposal.
- March, 22. Modulation of systemic inflammatory response in critically ill children after parenteral supplementation with glutamine.
- April, 5. Call FIS 2016. Human Resources and Projects.
- April, 12. Overnutrition during breastfeeding causes early alteration of insulin sensitivity and permanently conditions the risk of metabolic disease.
- April, 19. Systems biology applied to biomedical research: from preclinical to clinical practice.
- April, 30. Information day on the advances of Sant Joan de Déu Barcelona researchers in childhood cancer.
- May, 3. Clinical and molecular characterisation of Rett Syndrome.
- May, 17. Retinoblastoma: From the research laboratory to clinical practice and back to the laboratory.
- May, 31. Cinacalcet inhibits tumour growth and increases CTA antigen expression in a neuroblastoma model.
- June, 10. Information session "How we manage Retinoblastoma in 2016".
- June, 14. "New challenges in genomic diagnosis".
- June, 27 – July, 1. iCAN Research & Advocacy Summit.
- July, 5. TissueFAXS™ Cytometry: providing "FACS-functionality" to Quantify Molecular Markers and Cellular Interaction in Tissue Sections and Adherent Cell Culture Monolayers.
- July, 28. Origin of ependymoma and medulloblastoma (MAGIC project).
- September, 20. Old and new risk factors in paediatric Acute Lymphoblastic Leukaemia: genetic and genomic approach.
- September, 21. I Jornada Científica de l'Institut de Recerca Sant Joan de Déu.
- October, 4. Information session: New call for financing: PERIS 2016.
- October, 18. Nutrigenomics. New diagnostic targets.
- November, 11. The Biomedical Engineering Research Centre of the Polytechnic University of Catalonia (UPC): Opportunities for collaboration within the framework of the Sant Joan de Déu Barcelona Research Institute.
- November, 21. Congress: Updating in the healthcare decision-making process.
- November, 22. Cerebrospinal fluid biomarkers for the study of neurometabolic diseases.
- December, 1. Jornada de Recerca al Parc Sanitari Sant Joan de Déu.
- December, 13. The role of miRNAs as biomarkers in muscular dystrophies: Application of digital PCR.