





**SJD**

**Sant Joan de Déu**  
Fundació de Recerca

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of the Escola d'Art Pau Gargallo within  
the Talent Creatiu i Empresa program

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Parc Sanitari Sant Joan de Déu  
& Campus Docent Sant Joan de Déu



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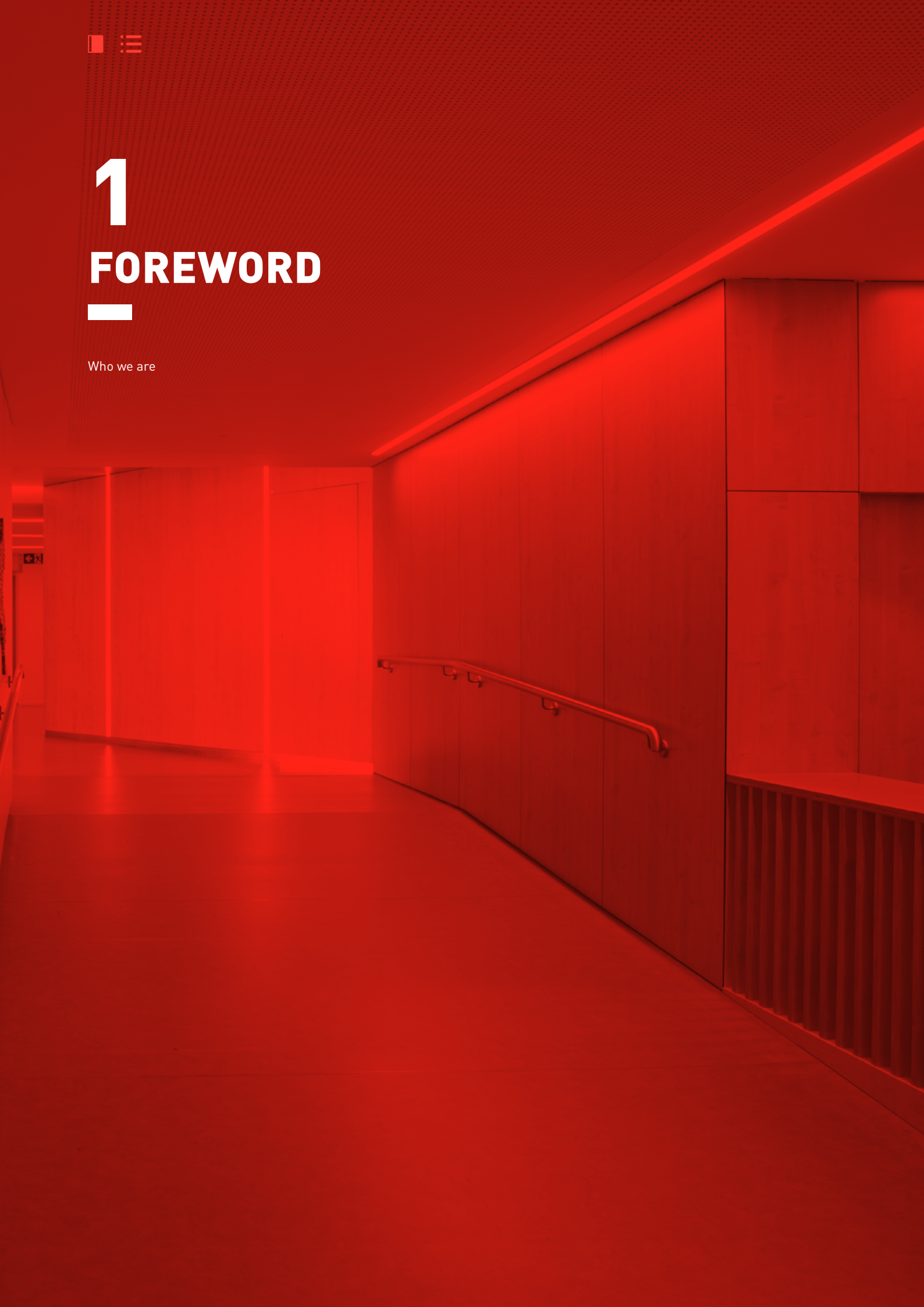


# 1

## FOREWORD



Who we are





## Who we are

The Sant Joan de Déu Research Foundation contributes to the improvement of people's health and well-being by promoting, supporting and coordinating research and innovation at the centres of the Hospitaller Order of Saint John of God – Aragon-San Rafael Province, in accordance with its values (hospitality, respect, quality, responsibility, and spirituality). This is done seeking efficiency and by collaboration networking, bearing in mind at all times our ethical commitment and our scientific and social outlook.

**The Foundation's activity is focused on both basic and applied research and investigation in the fields of biomedicine, healthcare and social assistance.**





# 2

## GOVERNANCE AND STRUCTURES

Board of trustees  
Scientific Advisory Council  
Drug Research Ethics Committee  
Steering committee

# Board of trustees

## PRESIDENT

### **Br. Jesús Pineda Sánchez**

Brother of Hospitaller Order of Saint John of God

Date of appointment: 7/5/2019

## SECRETARY

### **Ms. Natàlia Pérez Neira**

Financial director, SJD Barcelona Children's Hospital

Date of appointment: 23/2/2015

## VOCAL

### **Dr. Joan Guàrdia Olmos**

Rector, Universitat de Barcelona

Date of appointment: 16/02/2021

### **Dr. Jordi Garcia Fernández**

Vice-Rector for Research, Universitat de Barcelona

Date of appointment: 16/02/2021

### **Dr. Climent Molins Borrell**

Vice-rector for Transfer, Innovation and entrepreneurship, Universitat Politècnica de Catalunya

Date of appointment: 28/06/2021

### **Dr. Manuel Del Castillo Rey**

General Manager, SJD Barcelona Children's Hospital

Date of appointment: 29/4/2003

### **Dra. Lorena Molina Raya**

Director, Campus Docent Sant Joan de Déu

Date of appointment: 02/6/2020

### **Sr. Enric Mangas Monge**

Director, Parc Sanitari Sant Joan de Déu

Date of appointment: 28/6/2011

### **Sr. Salvador Maneu Marcos**

Director, Sant Joan de Déu

Serveis Socials · Barcelona

Date of appointment: 15/09/2020

### **Dr. Miquel Pons Serra**

Medical Director, SJD Barcelona Children's Hospital

Date of appointment: 15/09/2020

### **Dr. Joan Alvarós Costa**

Director, Xarxa de Salut Mental, Parc Sanitari Sant Joan de Déu

Date of appointment: 15/09/2020

## Responsibilities and duties of the Board of Trustees

The Board of Trustees represents the Foundation, holding all the authority required for the achievement of the Entity's goals, with no other exceptions than those established in the applicable laws.

It alone is responsible for the governance and administration of the Foundation, for the approval of the annual accounts and the budget, and for the amendment of the Articles of Association, the extinction of the Foundation and any other act which goes beyond the scope of day-to-day management or which requires the authorisation or approval of the surveillance authorities.

## Functioning of the Board of Trustees

The Board of Trustees is to hold at least two meetings a year, which shall be called by the Chair at least 15 days in advance, although as many ordinary or extraordinary meetings may be held as may be deemed appropriate, or they may be held whenever they are requested by one-fourth of the Trustees, in which case the meeting shall be held within 30 days of the request. The meetings of the Board of Trustees may be held at the registered office of the Foundation or at the registered office of the Hospitaller Order of Saint John of God – Aragon-San Rafael Province.

The meetings of the Board of Trustees are valid when they are attended, in person or by representation as legally prescribed, by at least one-half plus one of its members. Resolutions are to be passed by simple majority of votes of the members in attendance, and in the event of a tie, the Chair will cast the deciding vote. The favourable vote of at least 2/3 of the Trustees in attendance will be required for the adoption of the following resolutions:

- a) Amendment of the Articles of Association
- b) Merger, spin-off or extinction of the Foundation

The respective minutes are to be drafted for each meeting. They shall be recorded in the Foundation's Minutes Book and they shall be approved at the close of the meeting or in the next following meeting by simple majority of votes. Resolutions are enforceable, however, as from the time of their adoption except in the event that the Board of Trustees specifically defers their effectiveness until such time as the minutes are approved.

When called to attend, the General Director or General Manager may be present at the meetings of the Board of Trustees, with the right to speak but not to vote.



# Scientific Advisory Council

## **Dr. Montserrat Vendrell i Rius**

Partner. Alta Life Sciences

PRESIDENT

## **Dr. Antonio L. Andreu**

Scientific director. European infrastructure for translational medicine (EATRIS)

## **Dr. Maria A. Blasco**

Director. Centro Nacional de Investigaciones Oncológicas (CNIO)

## **Dr. Jordi Cami i Morell**

Director. Parc de Recerca Biomèdica de Barcelona & Fundació Pasqual Maragall

## **Dr. Marisa Montolio**

Scientific director. Duchenne Parent Project, Spain

## **Dr. Michael B. King**

London's Global University. Division of Psychiatry

## **Dr. Carlos Rodriguez-Galindo**

Executive vice-president. St. Jude Children's Research

## **Dr. Maithe Tauber**

Hospital Paediatric endocrinologist. Institut des Sciences du Cerveau, de la Cognition et du Comportement de Toulouse (ISC3T)

The Board of Trustees obtains advice and support from its Advisory Council, which is appointed by the Board, in all matters which are related to the Foundation's goals and which require the opinion of experts and people with a specific criterion on issues of interest.

The members of the Advisory Council are appointed for a term of 3 years and may be re-appointed for successive periods. The members of the Council who are also on the Board of Trustees will cease to belong to the Council in the event that they cease to be Trustees.

The Advisory Council is chaired by the Chairperson of the Board of Trustees or by the person to whom the Chairperson delegates this function; the Council is to meet as often as it may deem appropriate, and the respective minutes of the meetings shall be drafted.





# Drug Research Ethics Committee (CEIM, from the Catalan)

**President**

Dr. Jesús Pineda Sánchez

**Vicepresident**

Dr. Bernabé Robles

**Secretary**

Dra. Neus Riba García

**Vocal**

Br. Fernando Aguiló Martínez

Sra. Clara Chamorro Pérez

Dra. Ofelia Cruz Martínez

Sr. Ángel del Campo Escota

Dra. Beatriz del Pino Gaya

Dr. Pau Ferrer Salvans

Dr. Sabel Gabaldon Fraile

Dra. Maite Gorostegui Obanos

Dra. Ana Maria Martin Ancel

Dra. Laura Martínez Rodríguez

Sr. Eduard Puig Vaquero

Sra. María Eugenia Rey Abella

Dra. Marisa Serra Alacid

Dr. Joan Vinent Genestar

Dra. Cecilia Jiménez Mallebrera

Dra. Rosa María Dueñas

Dra. Carlota Romans Ruíz

Dr. Antoni Noguera Julián

Dra. Edurne Mazarico Gallego

Dra. Esther Via Virgili



# Steering committee

## **Sr. Emili Bargalló Angerri**

Director, Fundació Sant Joan de Déu

## **Sra. Vanessa Andrés Romero**

Head of Personal and Values Area

## **Sra. Roser Arnalte Olloquequi**

Head of Research Promotion and Management Area

## **Sra. Joana Claverol**

Head of Clinical Research Area

## **Sra. Clara Goula Mallofré**

Head of Administration and Finance Area

## **Dr. Josep Maria Haro Abad**

Director of Research, Innovation and Teaching, Parc Sanitari Sant Joan de Déu

## **Sra. Ana Maria Merino Márquez**

Head of Knowledge, Communication and Quality Area

## **Dr. Jaume Pérez Payarols**

Director of Innovation and Research, SJD Barcelona Children's Hospital

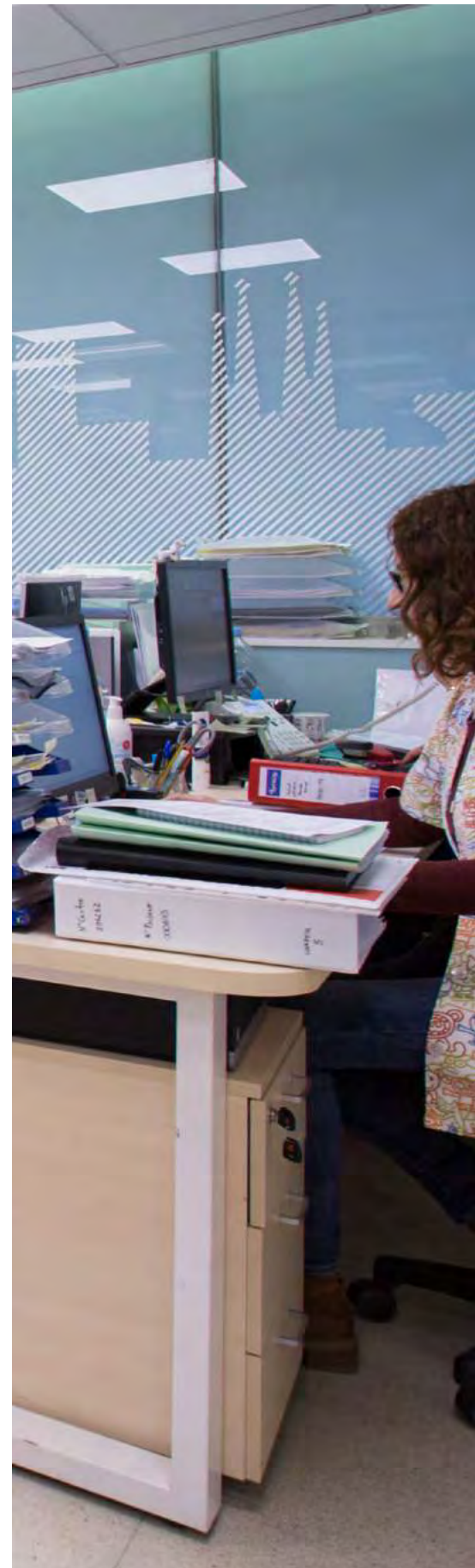
The Board of Trustees is to appoint a General Director or General Manager of the Foundation as a permanent remunerated position. The General Director or General will be responsible for the most direct management of the Entity, under the orders of the Board of Trustees, and is to be granted powers of attorney for all that is necessary to ensure the correct performance of his/her functions.

The General Director or General is to be appointed by the Board of Trustees, at the proposal of the Chair. His/her appointment will require the favourable vote of two-thirds of the Trustees.

At each of the meetings of the Board of Trustees, the General Director is to present an executive summary of the Foundation's activity, and submit, for their approval, all the documents necessary for the fulfilment of the Entity's formal obligations.

## **Principles and values forming the basis of the best practices of governance and management**

The Foundation adheres to the Code of Conduct of the Hospitaller Order of Saint John of God (OHSJD, from the Catalan) – Aragon-San Rafael Province. The purpose of the Code is to set out some clear basic principles of action to guide the activity of the professionals who work in OHSJD and of the people and enterprises who provide services to or cooperate in any other way with the Order (in the areas of training, volunteering or any other sphere).





# 3

## CIENTÍFIC ACTIVITY

Global numbers 2021  
Global numbers 2017-2021

**Institut de Recerca Sant Joan de Déu**  
Global numbers 2021

**Chronicity, ageing and end-of-life area**  
Research group for clinical and epidemiological research on major diseases

**Healthcare and medical assistance area**  
Surgery research group  
Patient Safety research group  
Research group for nursing, education and society (GIES, from the Catalan)

**Social innovation area**



# Global numbers 2021



## 586 TOTAL PROJECTS

- 96** Competitive autonomic projects
- 275** Competitive national projects
- 66** Competitive international projects
- 10** Non competitive autonomic projects
- 123** Non competitive national projects
- 16** Non competitive international projects



## 784 RESEARCH TEAM

- 63** Group leader
- 337** Staff researcher
- 78** Postdoc-associate researcher
- 120** PhD student
- 186** Assistant researcher & Technician



## 321 TOTAL CLINICAL TRIALS & OBSERVATIONAL STUDIES

- 26** Phase I
- 70** Phase II
- 115** Phase III
- 8** Phase IV
- 102** Observational studies & other



## 14,8 BUDGET\*

- 68%** Private
- 32%** Public

\* Thousand of euros



## 831 PUBLICATIONS

Articles & reviews published in scholarly journals indexed in the ISI Web of Science

- 4702** Impact factor
- 62%** Publications in first quartile
- 5.7** Mean impact factor
- 48%** Articles with main contributing authors



# Global numbers 2017-2021



## PROJECTS



## RESEARCH STAFF



## CLINICAL TRIALS & OBSERVATIONAL STUDIES



## BUDGET\*



\* Thousand of euros



## PUBLICATIONS



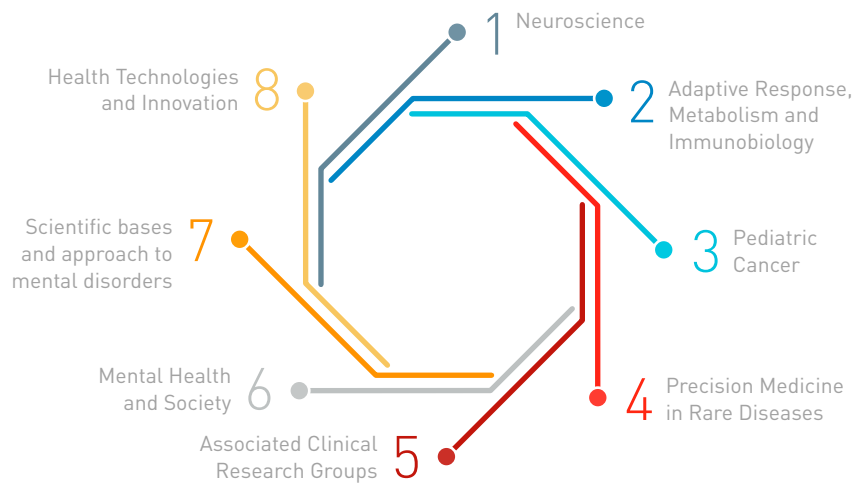
# Institut de Recerca Sant Joan de Déu

The Institut de Recerca Sant Joan de Déu (IRSJD, from the Catalan) has the mission of researching health problems relating to paediatric medicine, and of investigating how they affect human development, with the aim of improving people's health and quality of life. The IRSJD seeks to be a leading European institution in the comprehensive biomedical research of people's health in the paediatric age, devoting itself to the stages of life that affect overall human development.

The Institute was created in 2015 through a cooperation agreement between the SJD Barcelona Children's Hospital, the University of Barcelona, the Polytechnic University of Catalonia, the Parc Sanitari Sant Joan de Déu, and the Fundació de Recerca Sant Joan de Déu.

Research at the Sant Joan de Déu Research Institute is structured in the form of the following research programmes:

You may find it on the IRSJD's website [www.irsjd.org](http://www.irsjd.org)



# Global numbers IRSJD 2021

**321****TOTAL CLINICAL TRIALS & OBSERVATIONAL STUDIES**

- 26** Phase I
- 70** Phase II
- 115** Phase III
- 8** Phase IV
- 102** Observational studies & other

**729****RESEARCH TEAM**

- 59** Group leader
- 280** Staff researcher
- 78** Postdoc-associate researcher
- 120** PhD student
- 183** Assistant researcher & Technician

**506****TOTAL PROJECTS**

- 87** Competitive autonomic projects
- 236** Competitive national projects
- 58** Competitive international projects
- 10** Non competitive autonomic projects
- 100** Non competitive national projects
- 15** Non competitive international projects

**13****BUDGET\***

- 68%** Private
- 32%** Public

\* Thousand of euros

**INNOVATION**

- 10** Patent & license

**645****PUBLICATIONS**

Articles &amp; reviews published in scholarly journals indexed in the ISI Web of Science

- 3581** Impact factor
- 64%** Publications in first quartile
- 5.55** Mean impact factor
- 52%** Articles with main contributing authors

Information on the paediatric and mental health research groups is contained in the Scientific Report of the Institut de Recerca Sant Joan de Déu.

You may find it on the IRSJD's website:  
<https://www.irsjd.org/es/instituto/memoria-cientifica/>

# Chronicity, ageing and end-of-life area

Research centred on the improvement of end-of-life medical assistance, chronic illnesses and ageing.

## PARC SANITARI SANT JOAN DE DÉU\*

### Research group for clinical and epidemiological research on major diseases

Vicenç Díaz de Brito, MD, PhD

#### STAFF RESEARCHER

##### RESEARCHERS

Erika Esteve Palau, Elisabeth Arellano Marcuello, Nuria Berrocal Izquierdo, Ernesto Bragulat Baur, Anna Capellà Llovera, Xavier Casas García, Alejandra Fernández Trujillo, M<sup>a</sup> Araceli González Cuevas, Rosana Hernando Salvador, Mireia Junyent Priu, Jaime Llopis Cañameras, Pablo Marchena Iglesias, Juan Manuel Nicolas Valero, M.Teresa Pascual Pape, Bernabé Robles Del Olmo, Julián Rodríguez Larrea, César Romero Menor y Elisabet Rovira Prat

##### RESEARCH ASSISTANTS

Judit Lopez Luque y Edwin Percy Pesantes Sangay

#### SELECTED PROJECTS

- Efectes de l'exposició quotidiana a contaminants atmosfèrics en

pacients de COVID-19 i d'altres. (2020 DI 115). Agaur - Agència de Gestió d'Ajuts Universitaris i de Recerca. 2021-2024. IP: Rosana Hernando Salvador.

- Desarrollo de una base de datos nacional de bacteriemias y app e-health, automatizada y multiplataforma, para mejorar la prescripción antimicrobiana al adecuarla al ecosistema microbiano regional. (PI20/00176). Instituto de Salud Carlos III (ISCIII). 2021-2023. IP: Vicens Ferrer Diaz de Brito Fernandez.
- Desarrollo e implementación de una App para el check-list de dispositivos médicos y evaluación de su impacto sobre las infecciones relacionadas con la asistencia sanitaria. (Ajuts Recerca PSSJD 2020\_1). Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. 2020-2022. IP: Vicens Ferrer Diaz de Brito Fernandez.

#### SELECTED CLINICAL TRIALS

- DTG / 3TC frente a BIC / FTC / TAF como terapia de mantenimiento en personas que viven con VIH: ensayo clínico abierto y aleatorizado. (GESIDA 11720). Fundación Seimc Gesida. 2021-. IP: Vicens Ferrer Diaz de Brito Fernandez.
- Estudio de fase IIb, aleatorizado, con doble enmascaramiento, de grupos paralelos para evaluar la eficacia, la seguridad, la tolerabilidad y el perfil de resistencia de GSK3640254 en combinación con dolutegravir en comparación con dolutegravir más lamivudina en adultos infectados por el VIH-1 sin tratamiento previo. Phase IIb, randomized, double-blind, parallel-group study to assess the efficacy, safety, tolerability, and resistance profile of GSK3640254

in combination with dolutegravir compared to dolutegravir plus lamivudine in HIV-1 infected, treatment naïve adults. (212483). GlaxoSmithKline Research and Development Ltd.; Syneos Health UK Limited. 2021-. IP: Vicens Ferrer Diaz de Brito Fernandez.

- Early thromboprophylaxis in COVID-19 (ETHIC trial): an open label, randomized phase IIIb trial of community-based prophylactic low-molecular-weight heparin (LMWH) versus standard of care (no enoxaparin) in COVID-19 positive patients. (TRI-08892). Thrombosis Reserch Institute. 2021-. IP: Pablo Marchena Iglesias.
- Estudio Phase 3, aleatorizado, controlado con placebo, con doble ciego y de grupos paralelos para evaluar la eficacia, la seguridad y la tolerabilidad de SAR440340/ REGN3500/itepekimab (anti-IL-33) en pacientes con enfermedad pulmonar obstructiva crónica (EPOC) de moderada a grave. (EFC16819 AERIFY2). Sanofi-Aventis S.A. 2021-. IP: Rosana Hernando Salvador.

#### SELECTED PUBLICATIONS

- Esteve E, Gonzalez MA, Guerrero ME, Clara T, Alvarez MC, Casadevall D et al. Quantification of Specific Antibodies Against SARS-CoV-2 in Breast Milk of Lactating Women Vaccinated With an mRNA Vaccine. JAMA Netw Open. 2021;4(8):E8.483. (Q1).
- Fernández I, de Lazzari E, Inciarte A, Diaz de Brito VF, Milinkovic A, Arenas A et al. Network meta-analysis of post-exposure prophylaxis randomized clinical trials. HIV Med. 2021;22(3):218-224. IF:3,180. (Q3).

\* You will find the research groups of the Parc Sanitari Sant Joan de Déu which belong to the Institut de Recerca Sant Joa de Déu (IRSJD) on the IRSJD website <https://www.irsjd.org/es/instituto/memoria-cientifica/>



# Chronicity, ageing and end-of-life area

- Xinxin L, Crovetto F, Gonzalez MA, Cuadras D, Sanchez M, Azqueta C et al. Prenatal selection of cord blood donors according to the estimated fetal weight percentile and new approaches; results of a prospective cohort study. *Transfusion*. 2021;61(4):1215-1221. IF:3,157. (Q3).

## HOSPITAL SAN JUAN DE DIOS ZARAGOZA

Research is being conducted here along two main lines: on the one hand, nephrology, and on the other hand neurorehabilitation, chronicity and palliative care.

## HOSPITAL SANT JOAN DE DÉU PALMA

Chronicity and neurorehabilitation are the two main lines of research at the Palma de Mallorca centre.



# Healthcare and medical assistance area

The research line in this field has the aim of improving clinical practice in both medical assistance and nursing care.

## PARC SANITARI SANT JOAN DE DÉU\*

### Surgery research group

Oscar Izquierdo Corres, MD, PhD

#### STAFF RESEARCHER

##### RESEARCHERS

Emma Sánchez Sáez, Eduard Tornero Dacasa, Manuel Céspedes Pérez,

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

#### SELECTED PROJECTS

- Identificació dels principals trets cerebrals associats a les etapes més primerenques de diversos trastorns psiquiàtrics i neurològics. (05\_2020). Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. 2021-2022. IP: Maria Rosa Cambra Martí.
- Evaluación funcional en pacientes sometidos a artroplastia total

de rodilla mediante equilibrado ligamentario convencional comparado con equilibrado guiado con sensor: ensayo clínico aleatorizado. (06\_2020). Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. 2021-2022. IP: Juan Castellanos Robles.

#### SELECTED CLINICAL TRIALS

- Cirugía guiada personalizada de rodilla GPS® de Exactech®. Exactech® Knee Guided Personalized Surgery (eGPS®): Clinical Study. (CR16-006). Exactech, Inc. 2021-. IP: María López.

#### SELECTED PUBLICATIONS

- Parés D, Molinet C, Troya J, Altimira L, López JL, Martínez E. Influence of Bowel Habit and Hormonal Changes on the Development of



\* You will find the research groups of the Parc Sanitari Sant Joan de Déu which belong to the Institut de Recerca Sant Joa de Déu (IRSJD) on the IRSJD website <https://www.irsjd.org/es/instituto/memoria-cientifica/>

# Healthcare and medical assistance area

Hemorrhoidal Disease During Pregnancy and the Postdelivery Period: A Prospective Cohort Study. DIS COLON RECTUM. 2021;64(6):724-734. IF:4,585. (Q1).

- Martínez E, Ros C, Santoro GA, Cassadó J, Amat L, Cuadras D et al. Transperineal anal sphincter complex evaluation after obstetric anal sphincter injuries: With or without tomographic ultrasound imaging technique?. Eur J Obstet Gynecol Reprod Biol. 2021;257:70-75. IF:2,435. (Q3).
- COVIDSurg GC, Nepogodiev D, Simoes JFF, Li E, Glasbey J, Picciochi M et al. SARS-CoV-2 vaccination modelling for safe surgery to save lives: data from an international prospective cohort study. Br J Surg. 2021;108(9):1056-1063. IF:6,939. (Q1).
- COVIDSurg C, Dajti I, Valenzuela JI, Boccalatte LA, Gemelli NA, Smith DE et al. Machine learning risk prediction of mortality for patients undergoing surgery with perioperative SARS-CoV-2: the COVIDSurg mortality score. Br J Surg. 2021;108(11):1274-1292. IF:6,939. (Q1).

## Patient Safety research group

Ramón Mir Abellan, PhD

The research group has followed its line of research in patient safety and reducing risks derived from primary care. For example, the clinical approach to psychomotor agitation, the management to improve the experience of the pediatric patient facing an invasive technique or the evolution and mediation of the Patient Safety Culture in health organisations have been some outstanding projects. Innovation as a response to problems

related to patient safety is also relevant in the present and future research within the group. In addition, the impact of healthcare cures on people who come into contact with healthcare systems is of particular interest as an opportunity to detect the need to incorporate innovative solutions to reduce adverse events in healthcare organisations.

### STAFF RESEARCHER

#### RESEARCHERS

Antonio Cruz Antolin, Maria Luisa de la Puente Martorell, Montserrat Escute Amat, Gerard Andreu Morera

#### RESEARCH ASSISTANTS

Yasmina Manzano Bort

#### RESEARCH COLLABORATOR

Anna Falcó Pegueroles

### SELECTED PROJECTS

- SAFE-Infusion\_Stop Adverse Fluid Events in Infusion: weak-link tube connection and air removal devices monitored in the cloud for safer, more accurate and cost-effective IV therapy in hospital and at home. (971125). European Commission. 2021-2023. IP: Ramón Mir Abellan.
- Impacto de la implementación de una estrategia de calidad sobre la cultura de seguridad del paciente. (AR201605). Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. 2017-2022. IP: Ramón Mir Abellan.

### SELECTED PUBLICATIONS

- Falcó A, Zuriguel E, Via G, Bosch A, Bonetti L. Ethical conflict during COVID-19 pandemic: the case of Spanish and Italian intensive care units. Int Nurs Rev. 2021;68(2):181-188. IF:2,871. (Q1).
- Manuel J, Díaz EF, Sánchez MJ, Pliego AN, Mir R. Clinical Holding in Pediatric Venipuncture: Caring by Empowering the Caregiver. Int J Environ Res Public Health. 2021;18(14):3,390. (Q1).

2021;18(14):3,390. (Q1).

- Poveda S, Falcó A, Ballesteros MP, Bosch A. Barriers to Advance Care Planning Implementation in Health care: An Umbrella Review with Implications for Evidence-Based Practice. Worldviews Evid Based Nurs. 2021;18(5):254-263. IF:2,931. (Q1).

## CAMPUS DOCENT SANT JOAN DE DÉU

### Research group for nursing, education and society (GIES, from the Catalan)

Juan Roldán Merino, PhD

GIES is a research group of the Sant Joan de Déu Educational Campus whose goal is to explore the impact of care on people's health and to move forward with its innovation from an educational, healthcare, social and community-oriented perspective.

### STAFF RESEARCHER

#### RESEARCHERS

Adrià Almazor Sirvent, Marta Benet Blasco, Oscar Bautista Villaécija, Ainoa Biurrún Garrido, Jaime Carballado Pulido, Mariona Farrés Tarafa, Barbara Hurtado Pardos, Carmen Jerez Molina, David Lorenzo Izquierdo, Dolors Miguel Ruiz, Lorena Molina Raya, Maria José Morera Pomarede, Carlos Nebot Bergua, Gemma Robleda Font, Susana Santos Ruíz i Manuel Vicente Garnacho



# Healthcare and medical assistance area

## SELECTED PROJECTS

- Eficacia y seguridad de la pupilometría como medición objetiva de la nocicepción en pacientes críticos. Sociedad Española de Enfermería de Cuidados Intensivos y Unidades Coronarias (SEEIUC). PI: Robleda, G.
- Percepción de los estudiantes del Grado de Enfermería del proceso de aprendizaje en las prácticas clínicas en Atención Primaria. (PR-305/18). Col·legi Oficial d'Infermeria de Barcelona. 2019-2022. IP: Adrià Almazor Sirvent.
- Estudio cualitativo sobre las necesidades espirituales de las personas que se encuentran en situación de vulnerabilidad y exclusión social. Serveis Socials Sant Joan de Déu Barcelona (Alberg). 2012-2021. IP: Anna Ramió Jofre.

## SELECTED PUBLICATIONS

- Coelho JCF, Sampaio FMC, Nogueira MJC, Sequeira C, Lleixà MDM, Roldan-Merino J. Development and psychometric properties of

the Therapeutic Relationship Assessment Scale-Nurse. *J Psychiatr Ment Health Nurs.* 2021;28(6):981-994. IF:2,952. (Q1).

- Palacios D, Fernández R, Ortega A, Fernández A, Bautista O, Rodrigo O et al. Long-Term Care Facilities and Nursing Homes during the First Wave of the COVID-19 Pandemic: A Scoping Review of the Perspectives of Professionals, Families and Residents. *Int J Environ Res Public Health.* 2021;18(19). IF:3,390. (Q1).
- Serra N, Garnacho MV, Sánchez S, Albasa L, Girabent M, Moizé L et al. The Relationship between Resistance Exercise Performance and Ventilatory Efficiency after Beetroot Juice Intake in Well-Trained Athletes. *Nutrients.* 2021;13(4):1094-1094. IF:5,717. (Q1).
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## HOSPITAL SAN JUAN DE DIOS ZARAGOZA

Research at this centre is focused at present on pharmacological monitoring and follow-up, within the framework of the Pharmacology research line.

## SANT JOAN DE DÉU TERRES DE LLEIDA

Mental health research forms the main line of investigation at the centre located in the region of Lleida.





# Social Innovation Area

The social action of Sant Joan de Déu has the mission of promoting opportunities for personal and social development so that individuals and families at risk of social exclusion and/or in situations of vulnerability can carry out their vital projects autonomously and in the community and accompany them in a comprehensive and ethically responsible manner.

## Projects

In 2021 the Sant Joan de Déu Research Institute managed eight 100% social projects.

- Impacto del racismo, discriminación y xenofobia en la integración y en la salud mediante nuevas tecnologías** (II IN 200803 EN 162 FA 01) Ministerio de Inclusión, Seguridad Social y Migraciones. IP Josep Maria Haro i Paula Cristóbal.  
 Within the Migrasalud project, carried out in 2021, the following has been achieved: (1) Know the reality of discrimination and its impact on health and daily life, as well as research on the new socio-health fact marked by the COVID-19 pandemic in vulnerable groups. (2) Develop technological tools that involve a process of empowerment of people to increase their knowledge and control over their life experiences and the determinants of health. (3) Promote actions aimed at promoting cultural diversity as well as practical and culturally competent innovative therapeutic strategies (such as: holding a conference "II Conference on migration and health: post-migratory factors and COVID-19").
- Estudio sobre el impacto de la migración en la salud mental dels joves-M.I.O.** Observatori Social. Fundació La Caixa. Convocatoria "Recerca Social" (SR21-00779). IP: Josep Maria Haro i Paula Cristóbal.

The project will make it possible to identify the main risk and protection factors that influence the health of these groups. Likewise, an in-depth analysis of local and national strategies for the social inclusion of unaccompanied minors will also be carried out, and data and evidence will be collected to generate recommendations for action to improve the health of these young people.

- Projecte Hood- "Homeless's Open Dialogue"**. KA204-69D8F5C2. ERASMUS+Call 2020 Round 1 KA2 - Cooperation for innovation and the exchange of good practices. KA204 - Strategic Partnerships for adult education. Comissió Europea. 2019-2023. IP: Javier Pietro.
- Support and treatment of traumatized children After Violence - SAVE.** Rights, Equality and Citizenship Programme- Call: REC-AG-2018. Comissió Europea. 2019-2021. IP: Mar Alvarez.
- STEPS: Step by step standing up a Barnahus in Catalonia: A simulation- based training program to avoid secondary victimization in the assessment and treatment of child sexual abuse.** 881749. Rights, Equality and Citizenship Programme- REC-RDAP- GB V-AG-2019. Comissió Europea. 2020- 2022. IP: Marta Simó.
- Proyecto "Rights First"** European Programme for employment and Social Innovation- EASI 2020 (VP/2020/003/0109). IP: Javier Prieto.
- CRENCO recol·lectors de felicitat: créixer, envellir, compartir.** PCP-270. Prado Pintó. 2019-IP: Sandra Díaz.
- SJDSocial Innova. PCP 269.** Prado Pintó. 2020- IP: Sara Bayés.





# 4

## COMMUNICATION AND PARTICIPATION

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Internal communication  
External communication and public engagement  
News

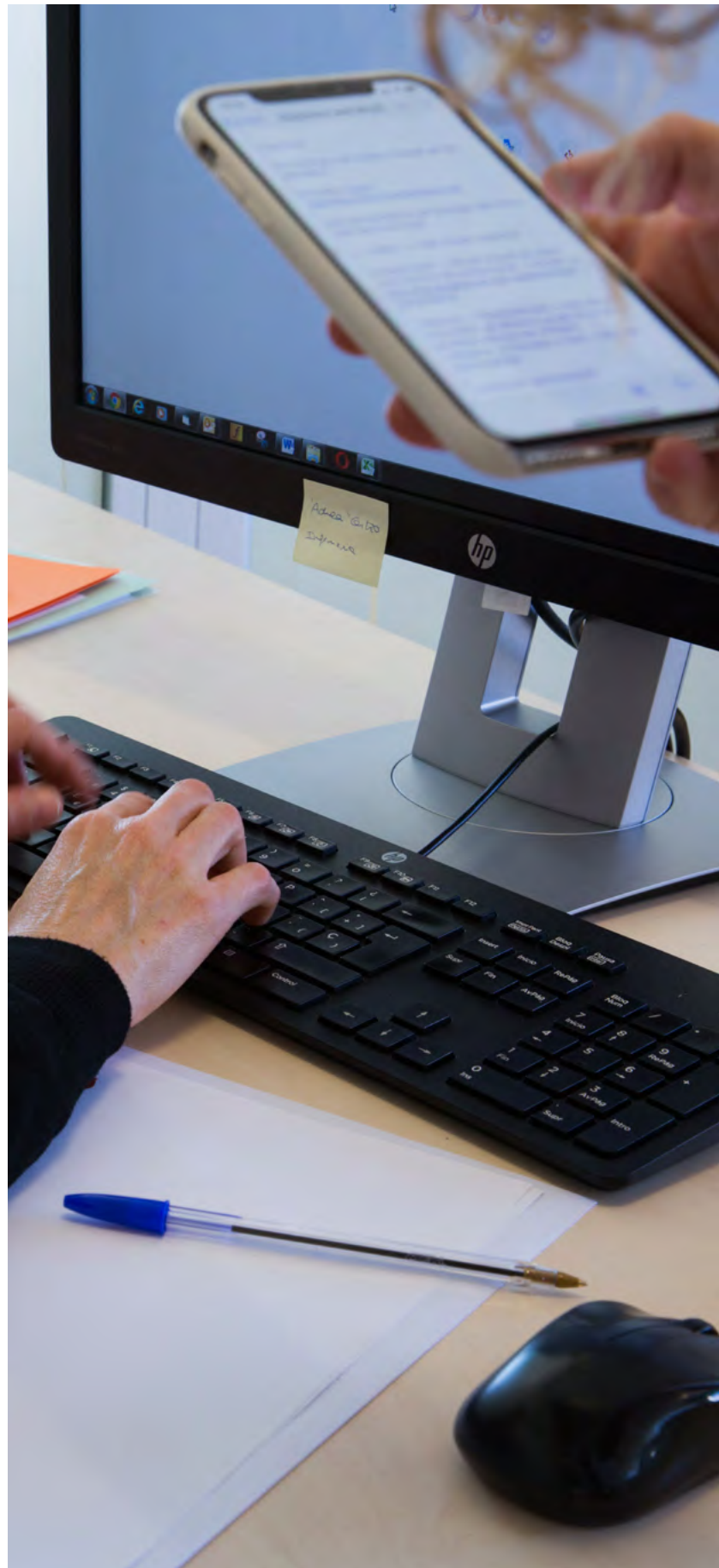




# Internal communication

Internal communication channels:

- Informative communiqués on specific topics of interest.
- Research bulletin.
- Update of the people section on the Intranet and creation of an anonymous suggestions box.
- Yearly informative meetings with all the research staff.
- Researcher HR working commissions to deal with specific topics.
- Group Welcome for new staff members, including all the research personnel.
- Monthly structure team meetings with the participation of research staff.



# External communication and public engagement

## Activities

**18**  
ACTIVITIES ORGANIZED

With participation

**170**  
RESEARCHERS

Audience Reached

**800**  
PEOPLE

Participation in:

- International Day of Women and Girls in Science
- Europeans Researcher's Night
- Setmana de la Ciència

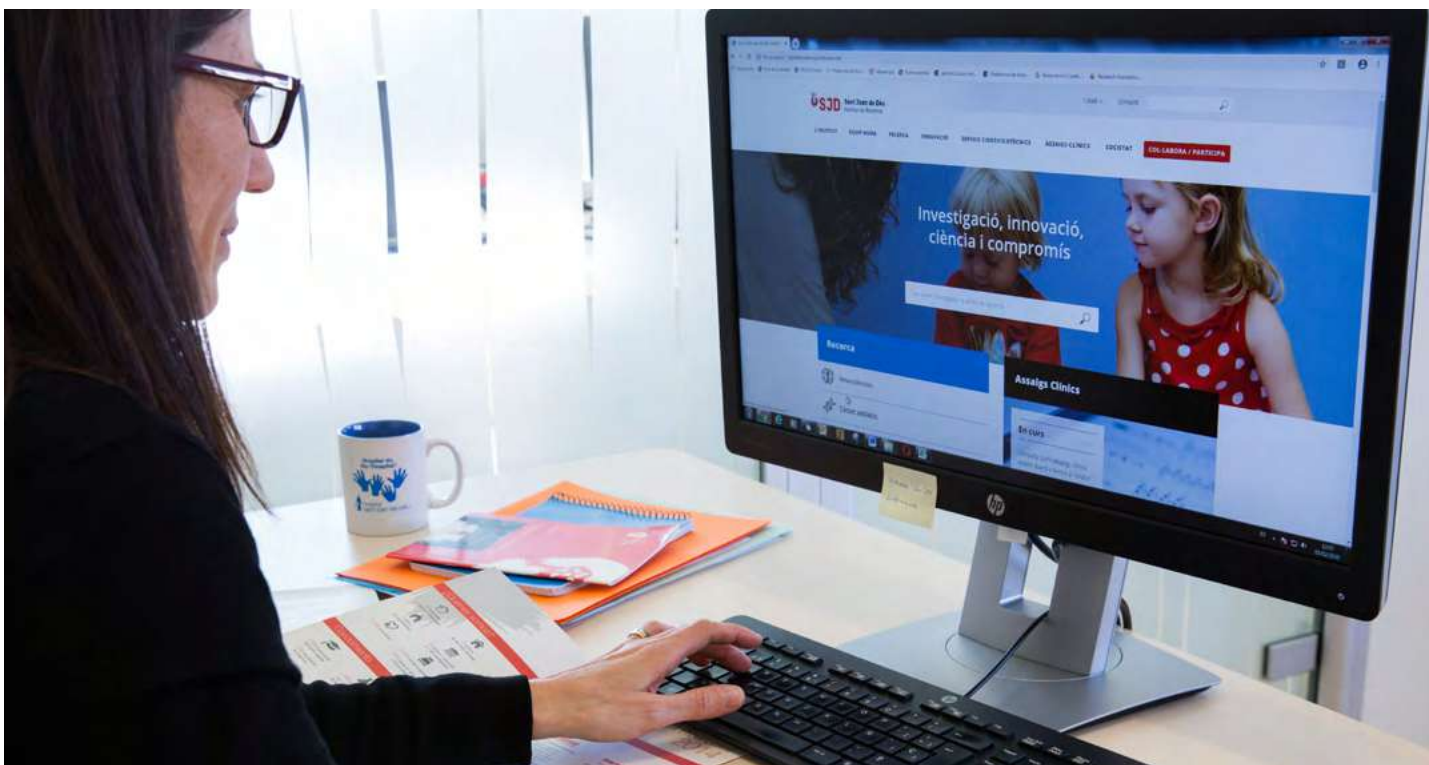
## Internet and Social Media

**LINKEDIN**  
**13.329** FOLLOWERS

**TWITTER**  
**937** FOLLOWERS

Institut de Recerca Sant Joan de Déu  
Twitter's profile was opened in October 2020.

**WEBSITE**  
**57.000** USERS  
**269.000** NUMBER OF VISITS TO PAGES





# News

## January

We have seen that in mouse models, malnutrition during lactation is associated with alterations in the metabolism of the adult. (Photo 1)

## February

Metacognitive training has beneficial effects on cognitive perception in patients with early psychotic episodes. The IRSJD is participating in a European project to assess the effects of the pandemic on mental health.

## March

The conditions of 70% of people with chronic pain have worsened during the pandemic. (Photo 2). DelveInsight's Soft Tissue Sarcoma Pipeline Insights recognized the CEB-01 antitumor biomembrane. Supplementing the maternal diet with betaine during lactation may reduce the risk of childhood obesity.

## April

Children who were fed milk from women immunized with the Pfizer vaccine could be protected against COVID-19. (Photo 3)

## May

The sleep-wake pattern potential is a clinical marker in children with ADHD and ASD.

## June

Josep Maria Haro and Carles Lerín participate in two research projects on COVID-19 financed by La Marató. The breast milk of women infected and vaccinated against the coronavirus contains antibodies against the virus. More than 6% of Europeans suffer from depression. (Photo 4)



# News

## July

Dr. Lourdes Ibañez coordinates the European SPIOMET4HEALTH project: a new treatment for polycystic ovary syndrome in adolescents and young women.

Survival rate of high-risk neuroblastoma patients treated with next-generation immunotherapy at SJD Barcelona Children's Hospital.



## August

IRSJD' researchers relate the concentration of certain chemical elements in the placenta with fetal growth. (Photo 5)

## September

Detecting long QT syndrome early could help reduce the impact of sudden infant death.

## Octubre

A guide to improving pediatric patient participation in drug research. (Photo 6)  
They discover new phenotypic characteristics in disorders related to the metabolism of neurotransmitters.



## November

Brown adipose tissue activity is higher in girls during the first year of life. Measuring antibodies in saliva is a useful and easy strategy to detect SARS-CoV-2 infections. (Photo 7)

## December

Dr. Vicenç Díaz de Brito's team is leading two related clinical trials to improve the treatment of patients with HIV.

Study reveals that a high percentage of children and adolescents with early onset psychosis suffer from clinical depression.







# 5

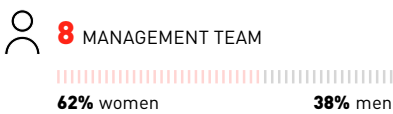
## PERSONAL MANAGEMENT

Staff  
Professional develop  
Health, safety and well-being of personnel

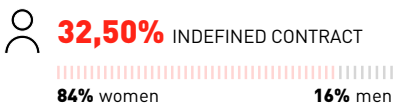




# Staff



## Employment contracts



Annual rotation **12,14**

Percentage of annual rotation calculated on the basis of the number of voluntary terminations divided by the total number of workers.

## Remuneration ratio

Ratio highest wage/lowest wage **5,8**

## Equality of opportunities and diversity

The Equality Commission of the Fundació de Recerca Sant Joan de Déu continues to comply with the Equality Action Plan implemented in 2020 in the institution. Some of the main actions carried out during 2021 have been:

- Training and awareness.
- Review of the harassment protocol.
- Review of the inclusive language guide.
- Remuneration audit.

## Hired employees at risk of social exclusion or in a situation of vulnerability

- Employees in a situation of vulnerability: **6** people.
- We work with two special work centres which integrate personnel with a disability.

## Programmes for occupational integration, work placements, and other work systems

- **4** people within the Programa de Garantia Juvenil.
- **9** students in work placements.

## Work-life balance measures

Within the framework of the Well-being Programme launched by the Sant Joan de Déu Within the framework of the Well-being Program initiated by the Fundació Sant Joan de Déu in 2019, as a result of the results of the 2018 Climate Survey, we promote measures to reconcile work and family life for men and women and allow us to cover the needs improving the quality of life of our professionals. We continue to develop pride in belonging to the institution. For this reason, within the usual 37.5 hours shift, there is a flexible entry and exit time to promote work-life balance. On the other hand, in 2021, teleworking has been carried out as a cause of force majeure, and a program called Flex-Fay has been designed to be implemented once the force majeure has ended, which is aimed at favoring work-life balance.

## Personnel benefiting from work-life balance measures

These measures apply to all personnel hired by the FSJD.

## Personnel benefiting from work-day reduction as legal guardians

- **1** man

## Work environment

In 2019, the results of the Opina survey were analyzed, which was carried out on all FSJD professionals in December 2019. With these results, an action plan was prepared, shared with all professionals and given continuity with continuous improvements in different areas. In 2022 this survey will be carried out again.

These measures apply to all personnel hired by the FSJD.

# Professional development

Our personnel have their own training programme, aimed at improving the professional qualifications and skills required to carry out translational research of excellence.

The training programme comprises four different modalities:

- Knowledge and techniques: addressed to increasing scientific knowledge and also the knowledge about the tools and techniques necessary for research.
- Soft skills: activities addressed to improving personal skills.
- Organisation and governance: activities for learning about our internal rules.
- Institutional training (values).

## 2021 dates

### ACTIONS

**18**

### PARTICIPATION

The average participation has been **13,8** people per action

### AVERAGE SATISFACTION

**8,83**

### PERSONNEL WHO HAVE RECEIVED TRAINING

**250** professionals



### NUMBER OF TRAINING HOURS

**86,5**

## Assessment of the achievement of personnel

An annual target assessment has been established for management personnel. Targets are usually set in January/February, they are monitored in June/July, and their achievement level is assessed in January/February of the following year. In 2020, a guide file was made available to research personnel to carry out the assessment of their professional achievement and skills.



# Health, safety and well-being of personnel

## Measures for preventing work hazards and for promoting the well-being of personnel

The purpose of this programme is to watch out for the health of our professionals by taking a comprehensive approach that includes both the emotional and physical spheres at the workplace in order to exert a positive effect on the following factors: Commitment/Motivation/Satisfaction/Pride of belonging.

The programme focuses on four work areas:

- Prevention of workplace hazards.
- Programme of well-being activities in cooperation with the hospitals.
- Monitoring of the work environment (opinion survey). Communication and participation activities.

## Training in prevention of workplace hazards



**HOURS TRAINING/YEAR**  
**321,66 h**

## Mechanisms and/or procedures for management of internal conflicts

At present we have a protocol for the prevention and handling of workplace harassment and discrimination.

This protocol comprises actions aimed to prevent, detect and resolve all types of situations involving psychological or sexual harassment due to gender or sexual orientation as well as all types of discrimination which may arise at the Fundació de Recerca Sant Joan de Déu.

It also represents an institutional commitment to the complete eradication of such conducts and to the assurance of the health of the people who have suffered such situations.







# 6

## ECONOMIC AND FINANCIAL MANAGEMENT



# Economic and financial management

The beneficiaries of the Foundation are society at large and the scientific community, as well as all professionals and other people interested in and motivated by the educational and research activities which we carry out.

## Efficiency

**87,21%**

RATIO OF FOUNDATION EXPENSES/  
TOTAL EXPENSES

**12,79%**

RATIO OF NECESSARY EXPENSES/  
TOTAL EXPENSES

**1%**

RATIO OF FUND-RAISING EXPENSES/  
TOTAL EXPENSES

## Breakdown of expenses for foundation activities, by areas of action/foundation lines

**83,64%**

BIOMEDICAL RESEARCH

**15,57%**

CLINICAL RESEARCH

**0,79%**

SOCIAL RESEARCH

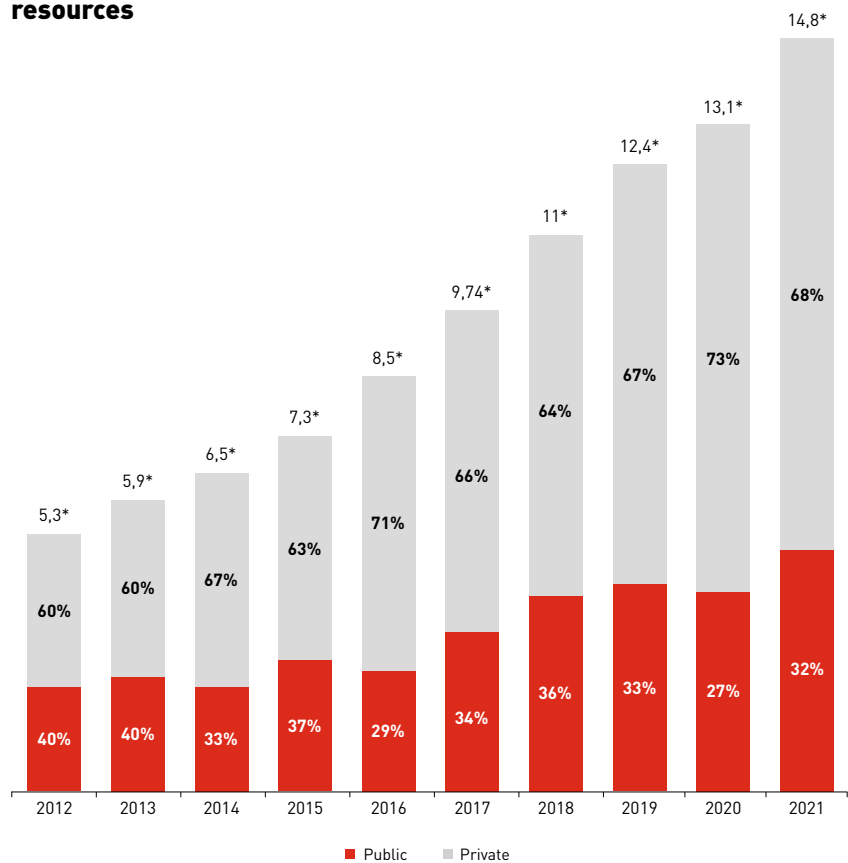
## Transparency area

See the following webpage:  
<https://www.sjdrecerca.org/es/fundacion/transparencia/>

## Income from activity in 2021

**14.817.633,86€**

## Management of financial resources



## Economic and financial information

Economic and financial information made available to the Board of Trustees:

- Yearly: Annual accounts of the Entity.
- Yearly: Budget of the Entity.
- Any other type of information considered relevant and important for the Board of Trustees' knowledge.

# Economic and financial management

## Management, identification and/or monitoring of hazards (Compliance)

The Foundation has a corporate compliance programme, which specifies the risks and the mechanisms for avoiding them. It also has a monitoring body, which meets periodically to follow up the current situation. Additionally, the Entity has a complaints channel, allowing any interested person to get in touch with the Foundation.

Likewise, the Foundation has a Criminal Risks Prevention Manual, which specifies as precisely as possible the principles of the Internal Monitoring Model for the Prevention of Criminal Risks.

This model consists of five main aspects which allow the strengthening of the Foundation's monitoring environment. These aspects are:

- Analysis of the main criminal risks which could affect the Foundation.
- Monitoring procedures, with an update and audit system.
- Monitoring body.
- Complaints channel.
- Training and disciplinary regime.

The Internal Monitoring Model for the Prevention of Criminal Risks has been conceived as a relational system of the criminal risks which may affect the Foundation in the exercise of its activity, with internal and operational monitoring actions established in its organisational structure.

## Supplier Code of Conduct

According to the OHSJD Code of Conduct, to which the Foundation adheres:

1. The relations between OHSJD and suppliers are to be based on respect, trust and the quest for mutual benefits. For this reason, OHSJD is to carry out supplier and provider selection processes based on objective, impartial and transparent criteria, avoiding all situations of conflict of interests or favouritism.
2. Moreover, OHSJD undertakes to treat confidentially all the information that it receives from suppliers in their proposals, such as prices and terms, respecting the content of the proposals. The processing of personal data is to be carried out, just as in the case of customers, in compliance with the provisions of law.
3. Persons performing services to OHSJD are responsible for providing truthful information to suppliers and providers, which is not to be provided with the intention of misleading.

## Supplier selection criteria

The Foundation carries out supplier and provider selection processes based on objective, impartial and transparent criteria, avoiding all situations of conflict of interests or favouritism.

**Total number of suppliers: 732**







**SJD**

**Sant Joan de Déu**  
Fundació de Recerca

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# Missatge del director

Aquest 2020 ha estat un any particularment singular i potser un dels més difícils als quals ens hem enfrontat com a societat i com a científics. El virus SARS-CoV-2 ha impactat en tots els àmbits de la nostra vida, alterant les nostres rutines, les formes d'interactuar entre nosaltres i la nostra manera de treballar. Malgrat l'emergència mèdica, la recerca a Sant Joan de Déu no s'ha aturat, hem preservat al màxim la nostra activitat científica habitual i hem impulsat nous projectes com la Plataforma Kids Corona; on s'han agrupat diferents projectes de recerca al voltant d'aquesta malaltia en l'àmbit de la pediatria i la salut maternoinfantil; així com, un conjunt de projectes sobre la COVID-19 en l'àmbit dels adults, molt vinculats a la salut mental. La Plataforma s'ha pogut desenvolupar gràcies al suport rebut a través de donacions, però també ha crescut amb la participació ciutadana. Els resultats obtinguts a través de Kids Corona han ajudat als sistemes de salut públics a millorar la presa de decisions, en un moment on la incertesa era molt present.

La Fundació de Recerca Sant Joan de Déu promou i gestiona la recerca desenvolupada a tots els centres de l'Orde Hospitalari Sant Joan de Déu - Província d'Aragó - Sant Rafael. Un gruix important d'aquesta recerca es realitza a l'Institut de Recerca Sant Joan de Déu. Al mateix temps la Fundació dona suport a tota la recerca desenvolupada fora del IRSJD, com la recerca del Campus Docent Sant Joan de Déu, entre altres. Per altra banda, aquest 2020 ha estat l'any de naixement del Programa SJD Social Innova. Aquest programa permetrà anar incorporant la innovació en l'àmbit social a través de diferents projectes que milloraran i renovaran les intervencions dels centres; amb l'objectiu final de contribuir a la creació d'una societat més justa.

La publicació de la memòria científica és la culminació d'un any de treball d'investigació i gestió de la recerca a la Fundació de Recerca Sant Joan de Déu. Un any on investigadors, investigadores, personal de gestió, de suport, etc. fan possible seguir avançant en la recerca biomèdica i social, tan en l'àmbit de la

pediatria com de la població adulta, especialment en la salut mental.

La memòria, que tot seguit us presentem, inclou el detall de l'activitat científica desenvolupada durant el 2020 per a tots aquells grups consolidats i emergents; a més de trobar la relació de projectes de l'àmbit de la innovació social.

Permeteu-me acabar aquest missatge agraint a totes les persones que han fet i fan possible l'activitat de recerca de Sant Joan de Déu. Al personal investigador, de la salut i infermer per l'esforç que han realitzat per adaptar-se a aquesta nova realitat; al personal de gestió per facilitar que l'activitat no s'aturés ni un moment; als pacients i famílies per continuar col·laborant en els projectes; als benefactors, finançadors públics, privats i la societat que han permès a través de les seves aportacions i participació en projectes continuar avançant en la recerca.

**Emili Bargalló Angerri**

Director

Fundació de Recerca Sant Joan de Déu

