

**SJD**

Sant Joan de Déu  
Fundació de Recerca

**SOCIAL AND  
SCIENTIFIC  
REPORT**

**2020**





**SJD**

**Sant Joan de Déu**  
Fundació de Recerca

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



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# 1

## FOREWORD



Director's foreword  
Who we are



# Director's foreword

2020 has been a very special year, numbering perhaps among the most difficult of all those which we have faced as a society and as scientists. The SARS-CoV-2 virus has impacted all areas of our lives, altering our routines, our ways of interacting with each other, and our manner of working. Despite this medical emergency, however, research has not stopped at Sant Joan de Déu, and we have spared no efforts in attempting to maintain our high level of scientific activity, and we have promoted new projects such as the Kids Corona platform, which embraces different research projects revolving around SARS-CoV-2 in the fields of paediatrics and of maternal and child health, in addition to a set of COVID-19 projects relating to adults which are closely linked to mental health issues. The implementation of this platform has been possible thanks to the support received in the form of donations, although it may also be noted that it has grown thanks to citizen participation as well. Quite particularly, the results obtained through the Kids Corona platform have helped the public health systems to improve their decision-making processes at a time marked by uncertainty.

Fundació de Recerca Sant Joan de Déu promotes and manages the research conducted in all the centres of the Hospitaller Order of Saint John of God - Aragon-San Rafael Province. A large part of this research is carried out at the Institut de Recerca Sant Joan de Déu (IRSJD). At the same time, the Foundation provides support to all our institution's research conducted outside the IRSJD, such as that which is carried out at the Campus Docent Sant Joan de Déu, among other centres. Aside from this, 2020 marked the launch of the SJD Social Innova Programme, which will help to implement innovation in the social sphere through different projects that will enhance and update the interventions of our centres, with

the ultimate goal of contributing to the building of a fairer society.

The publication of the scientific report marks the culmination of a year of research work and research management at Fundació de Recerca Sant Joan de Déu. Once again this year, researchers, management and support staff, and all the other members of our team have made it possible to continue advancing in biomedical and social research, both in paediatrics and in the field of adults, in the latter case especially in relation to mental health.

The report which we are presenting to you comprises a listing of the scientific activities carried out in 2020 by all our consolidated and emerging research groups, in addition to a list of our projects in the field of social innovation.

Permit me to conclude this message by expressing our gratitude to all the people who have made and are now making possible Sant Joan de Déu's research activity. Our thanks to our research, medical and nursing staff for the effort they have made to adapt themselves to the new situation; to our management staff for helping to ensure that this activity did not come to a halt at any time; to our patients and their families for continuing to cooperate on our projects; and to our benefactors, our public and private funders and our society at large for allowing us, through their contributions and participation in our projects, to keep advancing in our research endeavours.

**Emili Bargalló Angerri**

Director

Fundació de Recerca Sant Joan de Déu





## 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 Elías García**  
Rector, Universitat de Barcelona  
Date of appointment: 13/12/2016

**Dr. Domènec Espriu Climent**  
Vice-Rector for Research, Universitat  
de Barcelona  
Date of appointment: 20/12/2016

**Dr. Jordi Berenguer Sau**  
Vice-rector for Knowledge Transfer  
and Innovation, Universitat Politècnica  
de Catalunya  
Date of appointment: 13/12/2017

**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

**Mr. Enric Mangas i Monge**  
Director, Parc Sanitari Sant Joan  
de Déu  
Date of appointment: 28/6/2011

**Mr. Salvador Maneu Marcos**  
Director, Sant Joan de Déu Serveis  
Socials · Barcelona  
Data de nomenament: 15/09/2020

**Dr. Miquel Pons Serra**  
Medical Director, SJD Barcelona  
Children's Hospital  
Data de nomenament: 15/09/2020

**Dr. Joan Alvarós Costa**  
Director, Xarxa de Salut Mental,  
Parc Sanitari Sant Joan de Déu  
Data de nomenament: 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)

**Dra. 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

**Dra. Maithe Tauber**  
Pediatric 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

Ms. Clara Chamorro Pérez

Dra. Ofelia Cruz Martínez

Mr. Ángel del Campo Escota

Dra. Beatriz del Pino Gaya

Dr. Pau Ferrer Salvans

Dr. Sabel Gabaldon Fraile

Dra. Ana Maria Martin Ancel

Dra. Laura Martínez Rodríguez

Mr. Eduard Puig Vaquero

Ms. 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

## Mr. Emili Bargalló Angerri

Director, Fundació Sant Joan de Déu

## Ms. Vanessa Andrés Romero

Head of Personal Area

## Ms. Roser Arnalte Olloquequi

Head of Research Promotion and Management Area

## Ms. Joana Claverol

Head of Clinical Research Area

## Ms. 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

## Ms. 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

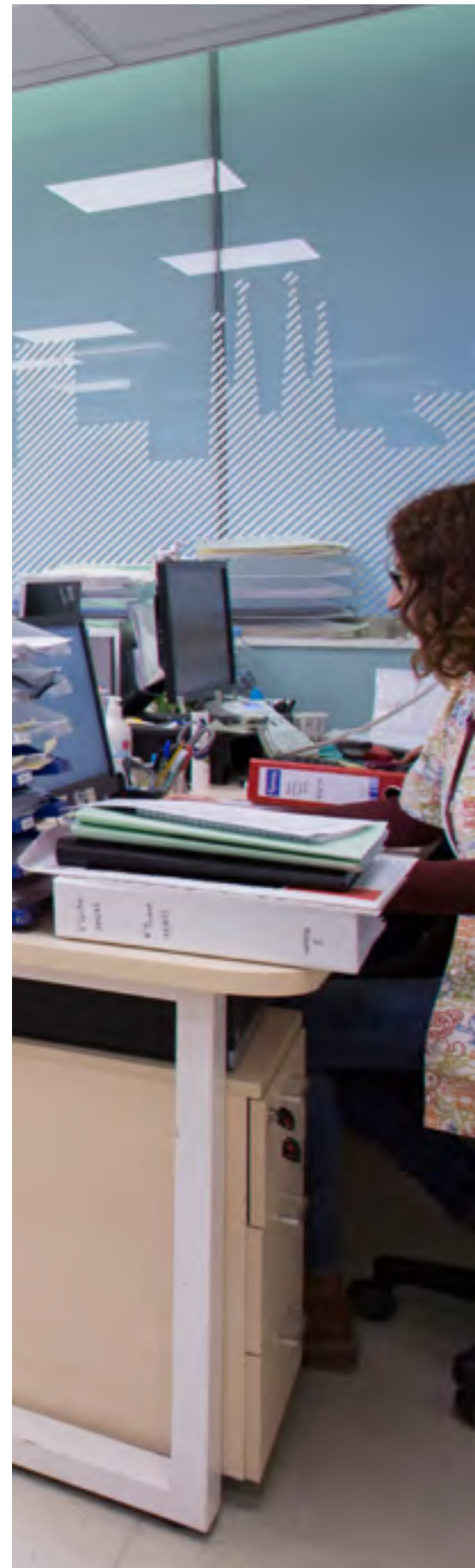
The Board of Trustees is to appoint a General Director or General Manager of the Foundation as a permanent remunerated position. The General Director or General will be responsible for the most direct management of the Entity, under the orders of the Board of Trustees, and is to be granted powers of 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).





A scientist in a white lab coat is working in a laboratory. He is holding a wire mesh structure over a large piece of equipment, possibly a centrifuge or a similar device. The background shows a laboratory setting with various pieces of equipment and a window. The entire image has a red tint.

# 3

## SCIENTIFIC ACTIVITY

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Global numbers 2020  
Global numbers 2017-2020

**Institut de Recerca Sant Joan de Déu**  
Global numbers 2020

**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 2020



**548**  
TOTAL PROJECTS

- 74** Competitive autonomic projects
- 258** Competitive national projects
- 67** Competitive international projects
- 6** Non competitive autonomic projects
- 132** Non competitive national projects
- 11** Non competitive international projects



**751**  
TOTAL MEMBERS

- 57** Group leaders
- 342** Staff researchers
- 66** Postdoc-associate researchers
- 123** PhD students
- 163** Assistant researchers & Technicians



**231**  
TOTAL CLINICAL TRIALS &  
OBSERVATIONAL STUDIES

- 18** Phase I
- 56** Phase II
- 78** Phase III
- 3** Phase IV
- 76** Observational studies & other



**13,2**  
BUDGET

- 73%** Private
- 27%** Public



**682**  
PUBLICATIONS

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

- 3106** Impact factor
- 60%** Publications in first quartile
- 4,5** Mean impact factor
- 48%** Articles with main contributing authors



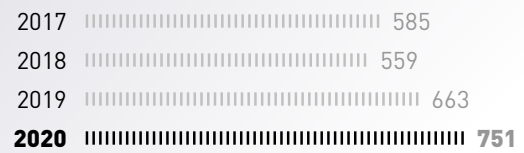
# Global numbers 2017-2020



## PROJECTS



## RESEARCH STAFF



## CLINICAL TRIALS & OBSERVATIONAL STUDIES



## BUDGET



## PUBLICATIONS



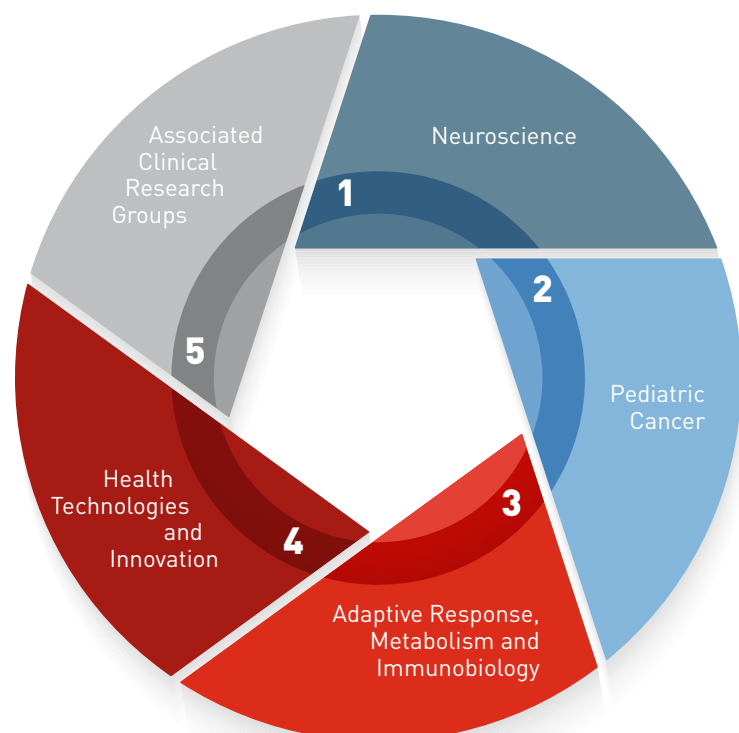
# Institut de Recerca Sant Joan de Déu

The Institut de Recerca Sant Joan de Déu (IRSJD, from the Catalan) has the mission of researching health problems relating to pediatric 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 pediatric 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 Sant Joan de Déu Barcelona Children's Hospital, the University of Barcelona, the Polytechnic University of Catalonia, the Sant Joan de Déu Barcelona Healthcare Park, and the Sant Joan de Déu Research Foundation.

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 2020



## 231 TOTAL CLINICAL TRIALS & OBSERVATIONAL STUDIES

- 18** Phase I
- 56** Phase II
- 78** Phase III
- 3** Phase IV
- 76** Observational studies & other



## 688 TOTAL MEMBERS

- 53** Group leaders
- 286** Staff researchers
- 66** Postdoc-associate researchers
- 123** PhD students
- 160** Assistant researchers & Technicians



## 486 TOTAL PROJECTS

- 65** Competitive autonomic projects
- 228** Competitive national projects
- 57** Competitive international projects
- 6** Non competitive autonomic projects
- 119** Non competitive national projects
- 11** Non competitive international projects



## 12 BUDGET

- 73%** Private
- 27%** Public



## INNOVATION

- 6** Patent & license



## 590 PUBLICATIONS

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

- 2652** Impact factor
- 61%** Publications in first quartile
- 4,5** Mean impact factor
- 50%** Articles with main contributing authors

Information on the pediatric and mental health research groups is contained in the Scientific Report of the Sant Joan de Déu Research Institute.

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.

**Research groups and lines at Sant Joan de Déu:**

## PARC SANITARI SANT JOAN DE DÉU\*

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

**Vicenç Díaz de Brito, MD, PhD**



**7**  
PUBLICATIONS WITH IMPACT FACTOR



**43%**  
FIRST QUARTILE PUBLICATIONS



**29%**  
FIRST DECILE PUBLICATIONS

#### MEMBERS

##### RESEARCHERS

Elisabeth Arellano Marcuello, Nuria Berrocal Izquierdo, Ernesto Bragulat Baur, Anna Capellà Llovera, Xavier Casas García, Alejandra Fernández Trujillo, M<sup>a</sup> Araceli Gonzalez Cuevas, Rosana Hernando Salvador, Mireia Junyent Priu, Luis Lores Obradors, Jaime Llopis Cañameras, Pablo Marchena Iglesias, Juan Manuel Nicolas Valero, M.Teresa Pascual Pape, Bernabé Robles Del Olmo,

Julián Rodríguez Larrea, César Romero Menor, Elisabet Rovira Prat

##### RESEARCH ASSISTANTS

Judit Lopez Luque, Edwin Percy Pesantes Sangay

#### SELECTED PROJECTS

- 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. 2020-2021. PI: Diaz de Brito, V.
- SGR 2017\_Grup de Recerca Clínica i Epidemiològica en Malalties d'Alta Prevalença. (2017 SGR 1317). Agaur - Agència de Gestió d'Ajuts Universitaris i de Recerca. 2017-2021. PI: Lores, L.
- Ética del cuidado aplicada en la unidad de cuidados intensivos. (Ajuts Recerca 2016). Fundació Víctor Grifols i Lucas. 2016-2020. PI: Fernández Trujillo, A.
- Desarrollo de una aplicación informática adecuada al ecosistema microbiano de cada centro hospitalario para mejorar la prescripción antibiótica. Parc Sanitari de Sant Joan de Déu - Serveis de Salut Mental. 2015 -2020. PI: Diaz de Brito, V.

#### SELECTED CLINICAL TRIALS

- Estudio Phase IIIb, aleatorizado, multicéntrico, con grupo control activo, de grupo paralelo, no inferioridad, abierto, que evalúa la eficacia, seguridad y tolerabilidad del cambio a Cabotegravir de acción prolongada junto con Rilpivirina de acción prolongada administrado cada dos meses desde un régimen de comprimido único de bictegravir / emtricitabina / tenofovir

alafenamida en adultos infectados por VIH-1 virológicamente suprimidos.Comercial. (213500). Laboratorios ViiV Healthcare, S.L. 2020-. PI: Diaz de Brito, V.

- Long-term treatment of cancer associated VTE: Optimal dose of apixaban: API-CAT STUDY for APIxaban Cancer Associated Thrombosis - API-CAT. No Comercial. HAO17022 (API-CAT). APHP Clinical Research and Development Department (DRCD). 2020-. PI: Marchena Iglesias, P.
- Prevención del desarrollo de enfermedad por SARS-CoV-2 (COVID-19) mediante la administración profiláctica de emtricitabina/tenofovir disoproxilol e hidroxicloquina en personal sanitario de alto riesgo: ensayo clínico aleatorizado, controlado con placebo. ESTUDIO EPICOS. No Comercial. Ministerio de Sanidad y Política Social MSPS. 2020-. PI: Diaz de Brito, V.

#### SELECTED PUBLICATIONS

- Avnery O, Martin M, Bura-Riviere A, Barillari G, Mazzolai L, Mahé I, et al. D-dimer levels and risk of recurrence following provoked venous thromboembolism: findings from the RIETE registry. J Intern Med. 2020;287:32-41. FI: 6,871 (Q1).
- Ilnciarre A, Leal L, Masfarre L, Gonzalez E, Diaz-Brito V, Lucero C, et al. Post-exposure prophylaxis for HIV infection in sexual assault victims. HIV Med. 2020;21:43-52. FI: 3,556 (Q2).
- Marchena PJ, Tzoran I, Brenner B, Martín M, Malý R, Bura-Riviere A, et al. Psychotropic Drugs and Outcome in Patients Receiving Anticoagulant Therapy for Venous Thromboembolism. Thromb Haemost. 2020;120:620-626.FI: 4,379 (Q1).
- Wouthuyzen-Bakker M, Sebillotte M, Huotari K, Escudero Sánchez R,

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

# Chronicity, ageing and end-of-life area

Benavent E, Parvizi J, et al. Lower Success Rate of Débridement and Implant Retention in Late Acute versus Early Acute Periprosthetic Joint Infection Caused by Staphylococcus spp. Results from a Matched Cohort Study. Clin Orthop Relat Res. 2020;478:1348-1355. FI: 4,329 (Q1).

## 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.

**Research groups and lines at Sant Joan de Déu:**

## PARC SANITARI SANT JOAN DE DÉU\*

### Surgery research group

Oscar Izquierdo Corres, MD, PhD



6

PUBLICATIONS WITH IMPACT FACTOR



67%

FIRST QUARTILE PUBLICATIONS

### MEMBERS

#### RESEARCHERS

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

### SELECTED PROJECTS

- SOFTBONE; Soft bone cement for better treatment of osteoporotic fractures - PGA nº 20519. EIT Health e.V. 2020-2022. PI: Izquierdo, O.
- SGR 2017\_Grup de Recerca i innovació en cirurgia. [2017 SGR 1372]. Agaur - Agència de Gestió d'Ajuts Universitaris i de Recerca. 2017-2021. PI: Tornero, E.

- Pacientes con lesiones residuales tras una lesión obstétrica del complejo esfinteriano anal: influencia de funcionalidad de la musculatura del suelo pélvico en la presencia de síntomas de incontinencia anal. (AR201507). Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. 2016-2020. PI: Martínez Franco, E.
- Ajut de recerca PSSJD - Efecte de la exoneurolisis dels nervis perifèrics sobre l'aparició d'úlceres en la polineuropatía diabètica. Beneficiari: Oscar Izquierdo. Parc Sanitari de Sant Joan de Déu -Serveis de Salut Mental. 2014 -2020. PI: Izquierdo, O.

### SELECTED CLINICAL TRIALS

- Evaluación mediante hormona antimulleriana (AMH) de la reserva ovárica tras el tratamiento de los endometriomas mediante esclerosis con alcohol o cirugía. Estudio Piloto. No Comercial. (PR314/15). García. 2016 -. PI: Carreras, M.

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



# Healthcare and medical assistance area

## SELECTED PUBLICATIONS

- Cereijo R, Taxerås SD, Piquer-Garcia I, Pellitero S, Martínez E, Tarascó J, et al. Elevated Levels of Circulating miR-92a Are Associated with Impaired Glucose Homeostasis in Patients with Obesity and Correlate with Metabolic Status After Bariatric Surgery. *Obes Surg.* 2020;30:174-179. FI: 3,412 (Q1).
- Garcia-Tejedor A, Martinez-Garcia JM, Candas B, Suarez E, Mañalich L, Gomez M, et al. Ethanol Sclerotherapy versus Laparoscopic Surgery for Endometrioma Treatment: A Prospective, Multicenter, Cohort Pilot Study. *J Minim Invasive Gynecol.* 2020;27:1133-1140. FI: 3,107 (Q1).
- Piquer-Garcia I, Campderros L, Taxerås SD, Gavaldà-Navarro A, Pardo R, Vila M, et al. A Role for Oncostatin M in the Impairment of Glucose Homeostasis in Obesity. *J Clin Endocrinol Metab.* 2020 Mar 1;105(3):e337-48. FI: 5,399 (Q1).
- Piquer-Garcia I, Cereijo R, Corral-Pérez J, Pellitero S, Martínez E, Taxerås SD, et al. Use of Infrared Thermography to Estimate Brown Fat Activation After a Cooling Protocol in Patients with Severe Obesity That Underwent Bariatric Surgery. *Obes Surg.* 2020;30:2375-2381. FI: 3,412 (Q1).

## Patient Safety research group

Ramón Mir Abellan, PhD



**3**  
PUBLICATIONS WITH IMPACT  
FACTOR



**33%**  
FIRST QUARTILE PUBLICATIONS

## MEMBERS

### RESEARCHERS

Antonio Cruz Antolin, Maria Luisa de la Puente Martorell, Montserrat Escute Amat, Olga Llado Giner, Jose Miguel Ortiz Moreno

### RESEARCH ASSISTANTS

Yasmina Manzano Bort

### RESEARCH COLLABORATOR

Anna Falcó Pegueroles

## SELECTED PROJECTS

- Vivencia del proceso de contención desde la perspectiva del profesional de enfermería. (AFR 2018). Parc Sanitari de Sant Joan de Déu - Serveis de Salut Mental. 2018-2020. PI: Mir Abellan, R.
- 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 -2020. PI: Mir Abellan, R.

## SELECTED PUBLICATIONS

- Bosch-Alcaraz A, Jordan I, Benito-Aracil L, Saz-Roy MÁ, Falcó-Pegueroles A. Discomfort of the critically ill paediatric patient and correlated variables. *Aust Crit Care.* 2020;33:504-510. FI: 2,214 (Q1).
- Bosch-Alcaraz A, Jordan I, Guàrdia Olmos J, Falcó-Pegueroles A. Adaptación transcultural y características de la versión española de la escala COMFORT Behavior Scale en el paciente crítico pediátrico. *Med Intensiva.* 2020;44:542-550. FI: 2,363 (Q3).
- Bosch-Alcaraz A, Jordan I, Rodríguez-Martín D, Falcó-Pegueroles A. Meaning and comfort factors in the paediatric intensive care unit from an adult perspective: a descriptive phenomenological study. *Scand J Caring Sci.* 2020;34:627-635. FI: 1,525 (Q2).

## CAMPUS DOCENT SANT JOAN DE DÉU

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

Juan Roldán Merino, PhD



**12**  
PUBLICATIONS WITH IMPACT  
FACTOR



**33%**  
FIRST QUARTILE PUBLICATIONS



**17%**  
FIRST DECILE PUBLICATIONS

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. For this reason, it adopts a transdisciplinary approach, integrating all the fields which may contribute to the generation of new knowledge concerning the impact of care on the various health processes, along four main lines: social action, educational innovation and information and communication technologies, identity traits, and healthcare methodologies.

## MEMBERS

### RESEARCHERS

Adrià Almazor Sirvent, Oscar Bautista Villaécija, Ainoa Biurrun Garrido, Jaime Carballado Pulido, Mariona Farrés Tarafa, Barbara Hurtado Pardos, Carmen Jerez Molina, David Lorenzo Izquierdo, Dolors Miguel

# Healthcare and medical assistance area

Ruiz, Lorena Molina Raya, Maria José Morera Pomareda, Carlos Nebot Bergua, Susana Santos Ruiz, Gemma Robleda Font.

## SELECTED PROJECTS

- Eficacia y seguridad de la pupilometría como medición objetiva de la percepción en pacientes críticos. Sociedad Española de Enfermería de Cuidados Intensivos y Unidades Coronarias (SEEIUC). 2020-2022. 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 -2021. PI: Almazor, A.
- 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. PI: Ramio, A.

## SELECTED PUBLICATIONS

- Garnacho MV, Palau G, Serra N, Ruiz M, Berbell M, Viñals X, et al. Understanding the effects of beetroot juice intake on CrossFit performance by assessing hormonal, metabolic and mechanical response: a randomized, double-blind, crossover design. *J Int Soc Sports Nutr.* 2020; 17(1):56.
- Llobet MP, Ortega MS, Lluch T, Moreno M, Blanco M, Roldan J. Positive Mental Health and Self-Care in Patients with Chronic Physical Health Problems: Implications for Evidence-based Practice. *Worldviews Evid Based Nurs.* 2020; 17(4):293-300.
- Farrés M, Roldan J, Lorenzo U, Hurtado B, Biurrun A, Molina L, et al. Reliability and validity study of the Spanish adaptation of the "Educational Practices Questionnaire" (EPQ). *PLoS One.* 2020; 15(9).
- Lluch-Canut T, Sequeira C, Falcó-Pegueroles A, Pinho JA, Rodrigues-Ferreira A, Guàrdia Olmos J, Roldán-Merino J. Ethical conflicts

and their characteristics among critical care nurses. *Nursing Ethics.* 2020; 27(2):537-553.

## 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

Social research allows **new knowledge to be generated in the field of social reality**, while also studying the social situations of a collective with the aim of diagnosing its needs and problems. One of the goals of this research is to respond to the needs of society.

## Projects

In 2020 the Sant Joan de Déu Research Foundation managed six 100% social projects:

- **Proyecto 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.
- **Estudio Buenas Prácticas para el Bienestar y la Salud en el Proceso Migratorio: Estrés y Discriminación percibida**. II IN 190517 EN 162 FA 01. FAMI 2020. Ministerio de Trabajo, Migraciones y Seguridad Social. 2020-2020. IP: Josep Maria Haro i Paula Cristobal
- **Support and treatment of traumatized children After Violence**. 856677. Rights, Equality and Citizenship Programme- Call: REC-AG-2018. Comissió Europea. 2019-2021. IP: 2019-2021.
- **“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
- **CRENCO recol·lectors de felicitat: créixer, envellir, compartir**. PCP-270. Prado Pintó. 2019- IP: Sandra Díaz.
- **SJD Social 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

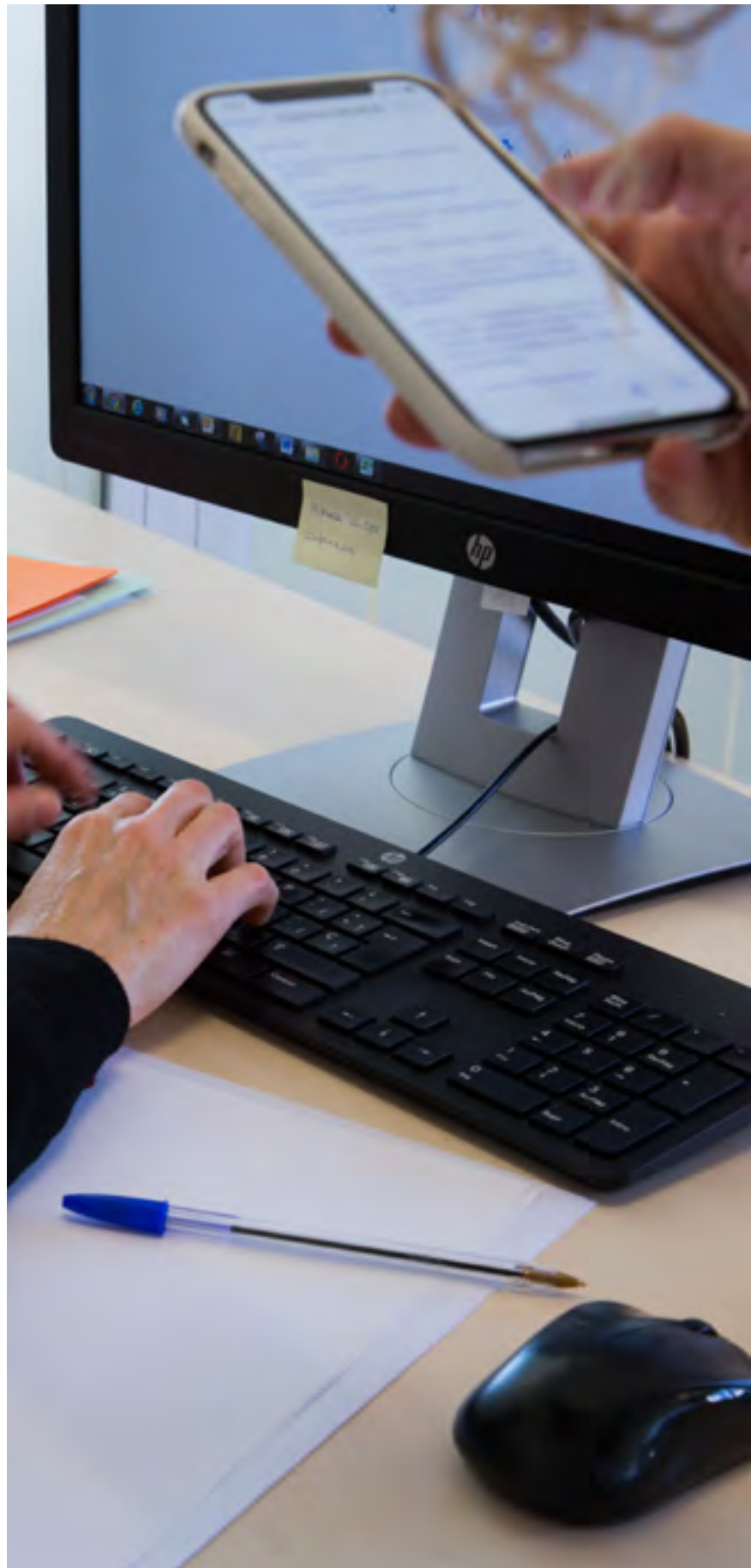




# Internal communication

Channels of internal communication:

- 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.



# Communication and public engagement

## Activities

**19**  
ACTIVITIES ORGANIZED

With participation of  
**22**  
RESEARCHERS

Audience Reached  
**800**  
PEOPLE

Participation in:

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

*As a result of the pandemic some of the activities were canceled and others readapted to the new situation.*

## Internet and Social Media

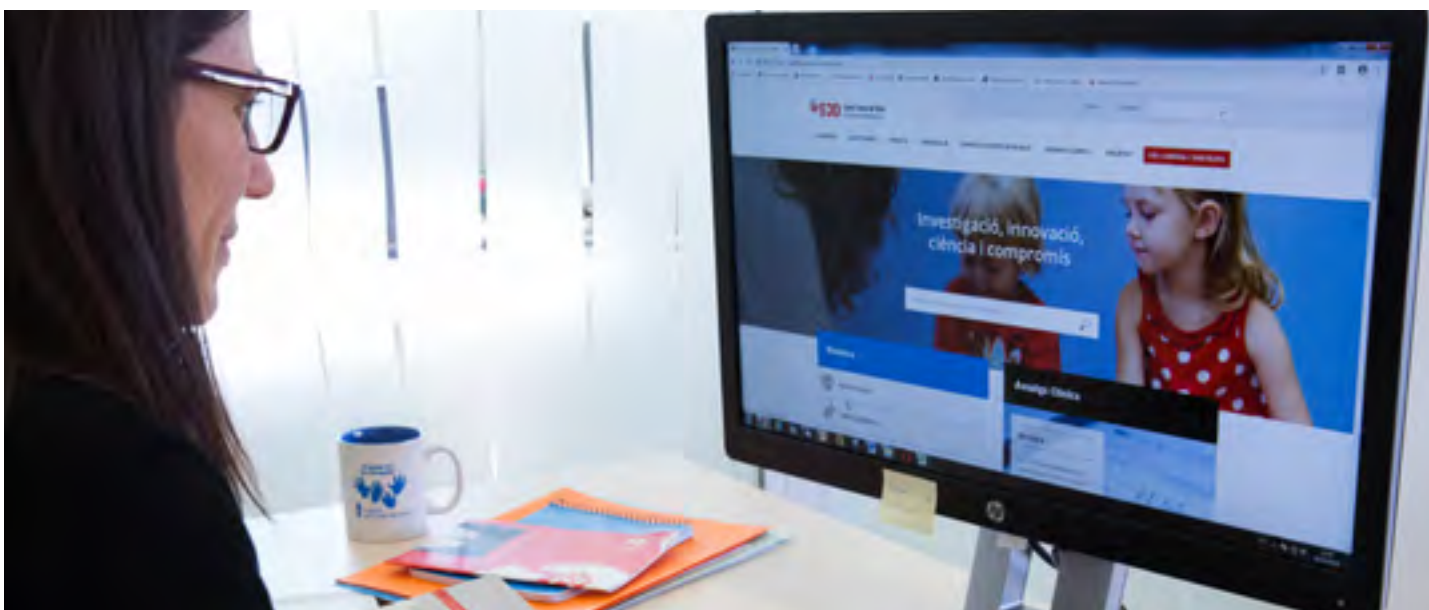
**LINKEDIN**  
**11.047** FOLLOWERS

**TWITTER**  
**680** FOLLOWERS

Institut de Recerca Sant Joan de Déu's twitter profile was released in October 2020.

**WEBSITE**  
**42.336** USERS  
**230.947** NUMBER OF VISITS TO PAGES

The website of the Institut de Recerca Sant Joan de Déu ([www.irsjd.org](http://www.irsjd.org)) was presented over the course of 2020 and the website of the Sant Joan de Déu Research Foundation ([www.sjdrecerca.org](http://www.sjdrecerca.org)) was renovated. The data for 2020 are the aggregate data of the three websites.



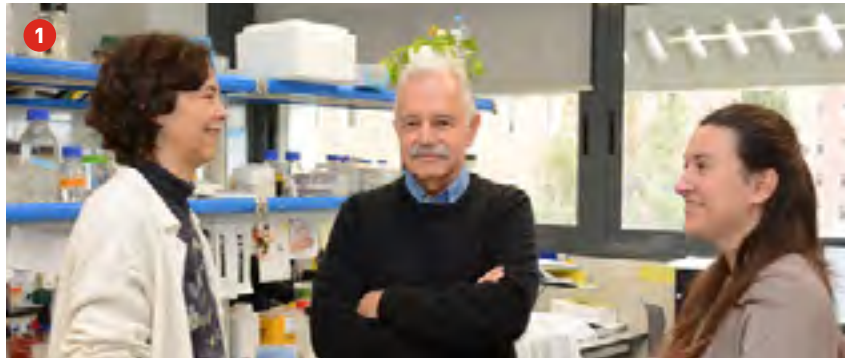
# News

## January

The SOFTBONE project will develop a new cement for treating bone fractures.

The use of computerised games for boys and girls with cerebral palsy may improve their quality of life.

Eight European institutions are working on a new project of best practices for homeless people.



## February

Sant Joan de Déu leads a European project for improving the care of boys and girls who are victims of violence, and their families.

The knowledge about KAT6A is increasing: New advances in regard to its genetic basis and related symptomatology. (Photo 1)



## March

A Sant Joan de Déu study is designated as Spain's most important research project for 2019. (Photo 2)

The EMPOWER project sets out to create an online platform for the improvement of mental health at work.



## April

Sant Joan de Déu launches four research lines for the study of COVID-19.

## May

EIT Health finances a project led by Sant Joan de Déu to deal with COVID-19.

## June

The Kids Corona study presents its initial preliminary results.

A new clinical trial with psilocybin for treatment-resistant depression gets under way in Barcelona.

COGNIVITRA: At-home cognitive and physical training for neurodegenerative diseases.

## July

Care robotics can help patients with Duchenne muscular dystrophy.

Start-up of a research study on pressure ulcers.

Gate2Brain, the "key" to transporting drugs to the brain and improving their effectiveness.

## August

Various stages of Ewing's sarcoma are reproduced in mice. (Photo 3)



# News

## September

Dr Maria Rubio obtains a grant for scientific excellence from the European Research Council (ERC). The Sant Joan de Déu Research Institute and the Institute of Photonic Sciences (ICFO) create a joint laboratory for the improvement of neonatal and pediatric medical care (Photo 4).



## October

Clinical results and implementation of the Clinical Practice Guides (CPGs) for care of peripheral intravenous catheters. Discovery of a crucial gene for the development of Ewing's sarcoma. (Photo 5)



## November

The Translational Diagnosis Programme drives the diagnosis of rare diseases. (Photo 6)  
The Sant Joan de Déu Research Institute obtains recognition as a member of the network Research Centres of Catalonia (CERCA).  
Creation of the TEXSAM Network, led by Dr Josep Maria Haro.



## December

The technology of the ALBA Synchrotron allows the study of subcellular changes in dystrophy patients.  
The MENTOR European Project, with the participation of the Sant Joan de Déu Educational Campus, is successfully completed.





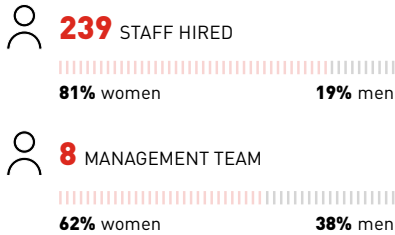
# 5

## PERSONAL MANAGEMENT

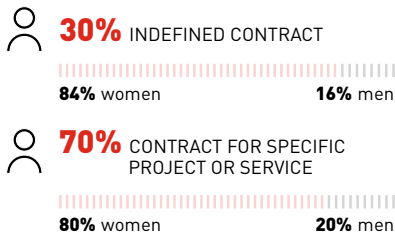
—  
Staff  
Professional develop  
Health, safety and well-being of personnel



# Staff



## Employment contracts



Annual rotation **4,63**

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 **5,1**

## Equality of opportunities and diversity

In December of 2019, the management of the Sant Joan de Déu Research Foundation decided to begin work on the Gender Equality Plan, declaring the commitment to establish and develop policies envisaging equality of treatment and opportunities between men and women.

The Plan was drafted over the course of 2020, for implementation as from January of 2021. This plan will have a term of 4 years.

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

- Employees in a situation of vulnerability: **3** people.
- We work with two special work centres which integrate personnel with a disability.

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

- **7** students in work placements.

## Work-life balance measures

Within the framework of the Well-being Programme launched by the Sant Joan de Déu Foundation in 2019, based on the results of the Climate Survey 2018, we promote measures to balance family life and work for men and women, allowing individual needs to be covered and improving our professionals' quality of life, and we continue to foster the pride in belonging to our institution. For this reason, within the usual work week of 37.5 hours, we have a flexible system of workday start and finish times to favour work-life balance.

Moreover, in 2020, with the health crisis produced by COVID-19, telework has been given priority in all possible cases and specific work-life balance and flexibility measures have been established to allow the care of dependants when necessary.

### Personnel benefiting from work-life balance measures

This programme and the specific measures for COVID-19 have applied to all our personnel.

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

- **4** Women
- **1** Man

## Work environment

In 2019, an analysis was made of the results of the opinion survey conducted on all the professionals of the Sant Joan de Déu Foundation in December of 2019. The results were used to draft a plan of action, which was shared with all the professionals. At the end of 2020, a report was drafted on all the actions carried out in the course of the year.

# 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).

## 2020 dates

### ACTIONS

**12**

### PARTICIPATION

The average participation has been **12** people per action

### AVERAGE SATISFACTION

**9,4**

### PERSONNEL WHO HAVE RECEIVED TRAINING

**143** professionals



### NUMBER OF TRAINING HOURS

**54**

## 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  
**213,41 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 Sant Joan de Déu Foundation.

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

**91%**  
RATIO OF FOUNDATION EXPENSES/  
TOTAL EXPENSES

**9%**  
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%**  
BIOMEDICAL RESEARCH

**16%**  
HEALTHCARE RESEARCH

**<1%**  
SOCIAL RESEARCH

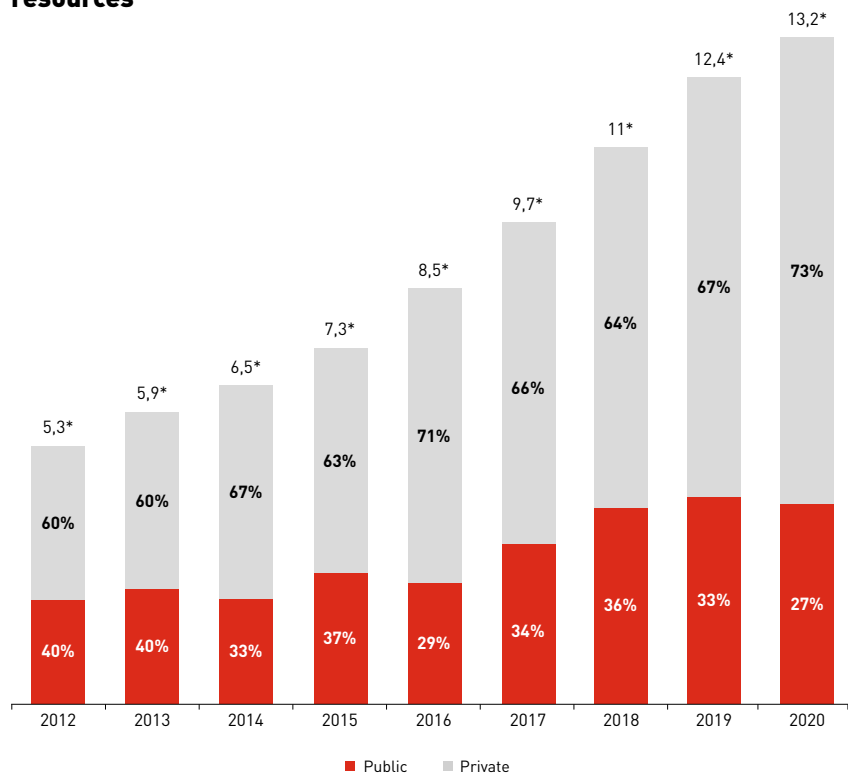
## Transparency area

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

## Income from activity in 2020

**13.169.531€**

## 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 favoritism.
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: 480**





**SJD**

**Sant Joan de Déu**  
Fundació de Recerca

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