

IDI BELL

Director's report

BELLVITGE BIOMEDICAL RESEARCH INSTITUTE

Gabriel Capellá, IDIBELL Director

December 21st, 2021

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- 

1

Research indicator's overview

Annual Report 2020

Scientific highlights

1293

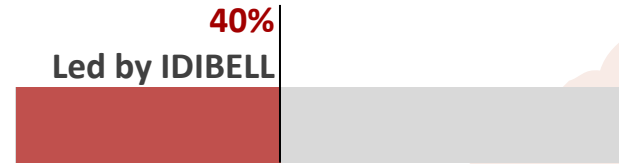
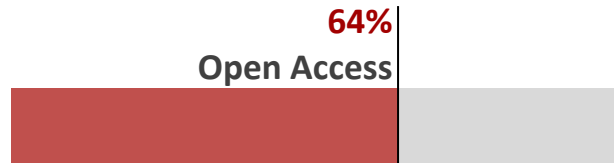
Scientific articles in indexed journals

6,64

Average
Impact Factor
(JCR 2020)

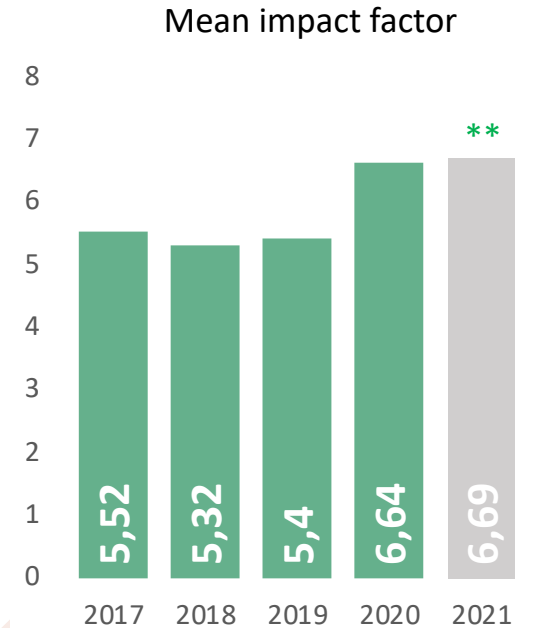
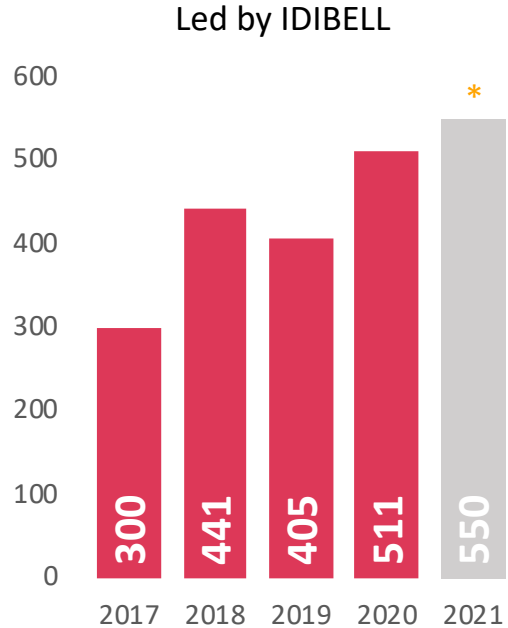
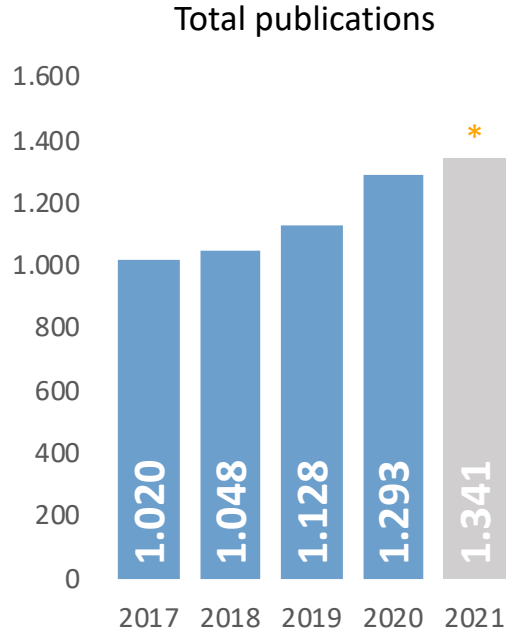


57%
1st quartile



Annual Report

Scientific highlights evolution



* Extrapolated from Jan 1 to Dec 15 data

** Preliminary data from Jan 1 to Dec 15

Annual Report 2020

Activity



RESEARCH
PROJECTS

111

National

20

International

GRANTED COMPETITIVE PROJECTS

134

National

11

International

2019 FIGURES



218 new clinical trials



104 active patents



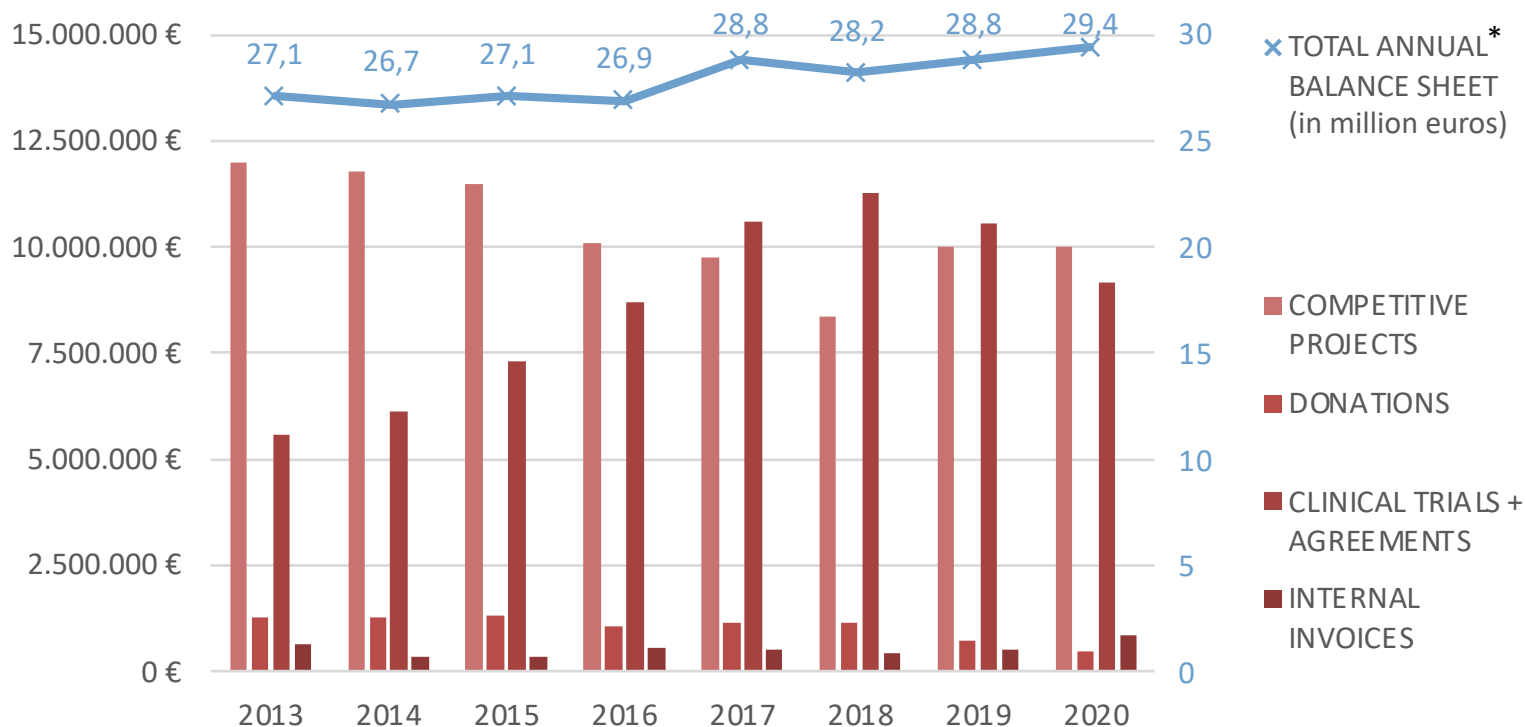
197 R+D contracts



20 licences

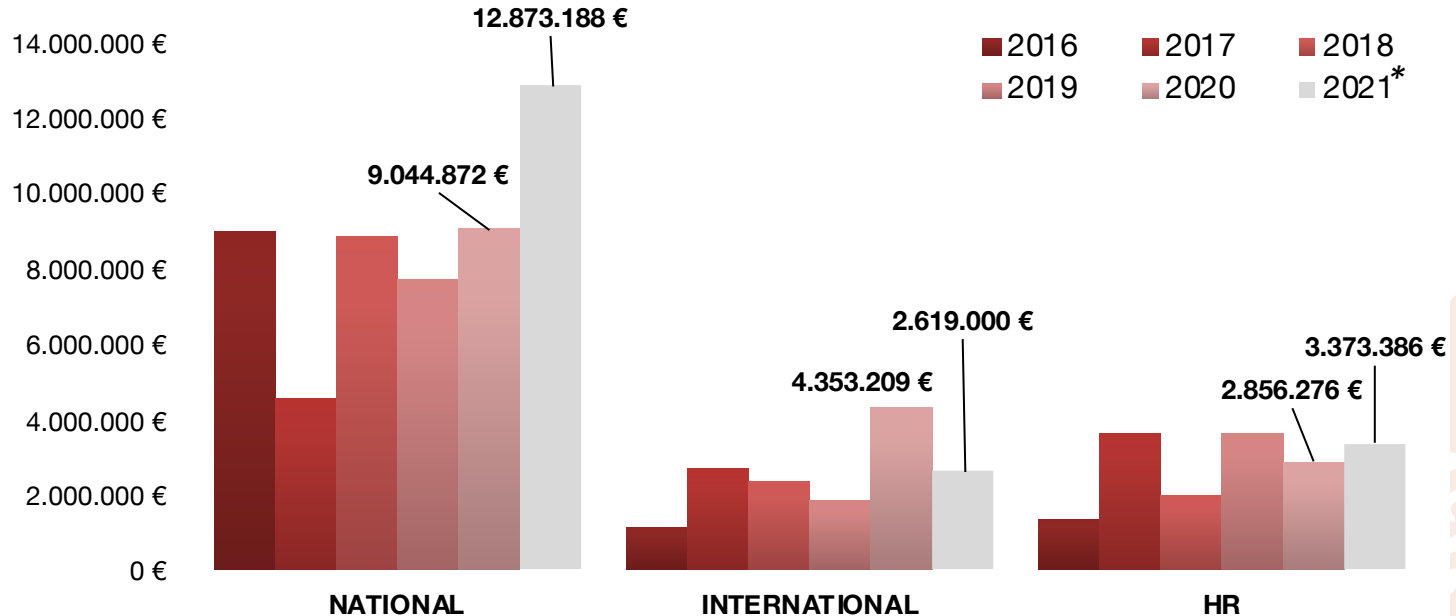
6 active spin-offs

Evolution of funds Annual balance sheet



* Total annual balance sheet figures include funds from the different sources stated in the chart plus the contributions made by the trustees, depreciation and other expenses not linked to the activity (rentals, financial interests and others).

Raised funds 2016-2021: competitive calls



* 2021 data is preliminary

2021 Project Highlights: European Commission



Cluster Health -- HORIZON-HLTH-2021-CORONA-01-01

PI: Antoni Riera-Mestre

IDIBELL budget: 112.500,00€



4 MSCA-Individual Fellowships

PIs: Ángel Raya (2), Mireya Plass, Alessandra Giorgetti

IDIBELL budget: 784.829,28 €



HP-JA-2020: Joint action.

PI: Esteve Fernández (Competent Spanish Authority)

IDIBELL Budget 136.607,00 €

2021 Project Highlights: Other International



2 US Department of Defense (as subawardee)

PIs: Bárbara Rivera and Conxi Lázaro

IDIBELL Budget: 189.857,00 €



2 ERA-NET in Pres Medicine

PIs: Víctor Moreno and Josep Ma Cruzado

IDIBELL budget: 506.851,00 €



Ecto-GPR37: a potential biomarker for Parkinson's disease

PI: Francisco Ciruela

IDIBELL Budget: 123.252,00 €

2021 Project Highlights: National calls



AES 2021

Projects

27 projectes concedits	5.236.885 €
1 projecte DTS concedit	3.106.675 €
2 projectes Clínica Independiente	149.600 €
	1.980.610 €

HR grants

3 contractes intensificació	2.064.276 €
2 contractes Miguel Servet	90.000 €
1 contracte Juan Rodés	617.200 €
5 contractes Río Hortega	180.000 €
2 contractes Sara Borrell	325.000 €
5 contracte PFIS	190.000 €
1 contracte Gestió investigación	449.500 €
4 ajuts de mobilitat M-AES	80.700 €
1 ajut de mobilitat M-BAE	101.876 €
	30.000 €

TOTAL AES 2021:

7.301.161 €

La Marató

3

COVID-19

2021 Call

2 coordinated projects

C. Lázaro, A. Mas (CSI)

4 projects in collaboration

L. Lladó, X. Corbella, A. Pujol, V. Moreno

TOTAL La Marató 467.739,79 €

2021 Project Highlights: National calls



asociación
española
contra el cáncer

Projects	1.159.177 €
1 innova (O. Casanovas)	180.000 €
2 proyectos estratégicos (C. Ochoa, A. Agudo)	360.000 €
2 proyectos generales (I. Fabregat)	299.814 €
1 ayuda lab AECC (A. Aytés)	299.363 €
1 ideas semilla (R. Moreno)	20.000 €
HR grants	220.000 €
2 c. postdoctorales (A. Aytés, A.Gentilella)	90.000 €
1 c. clínico junior (R. Alemany)	130.000 €
TOTAL AECC 2021:	1.379.177 €

2021 Project Highlights: National calls



RETOS / Generación conocimiento

9 projects awarded

PIs: F Vinyals , A Giorgetti, J Guiu, L Valle, J Cerón,
P Muñoz, E Cámara, R Alemany

Total IDIBELL: **1.663.750,00 €**



4 PIF-Salut grants

PIs: C Lázaro, B Rivera, MA Pujana, P Ciruela

4 support personnel grants

PIs: MA Pujana, JM Cruzado, V Moreno, R Zamora

TOTAL IDIBELL: **666.592,24 €**

Internal call for COVID projects

The aim of the call is to fund for innovative translational research projects in the field of infectious diseases and public health, about SARS-CoV-2 and COVID-19, which might have a short/mid-term potential scientific and clinical implications.

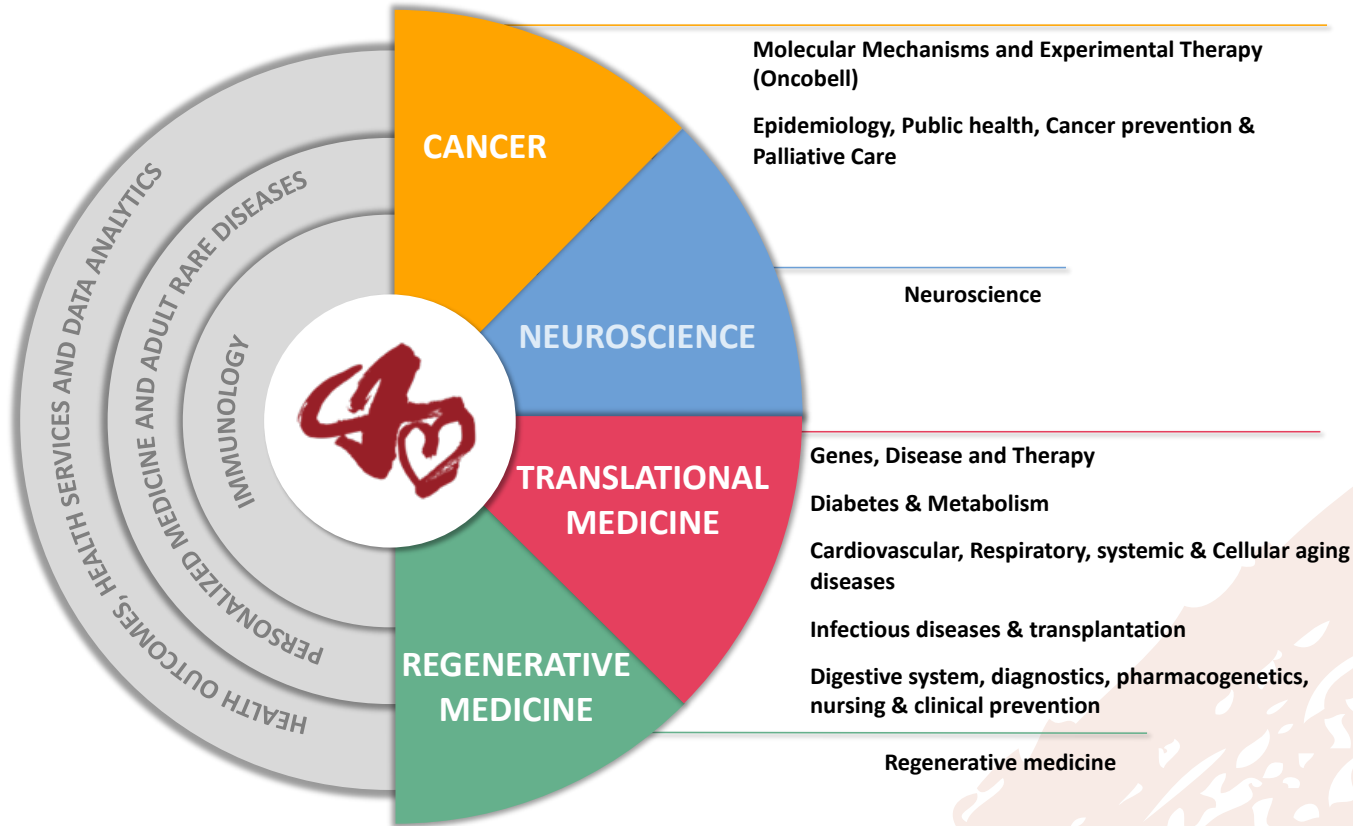
SELECTED PROJECTS

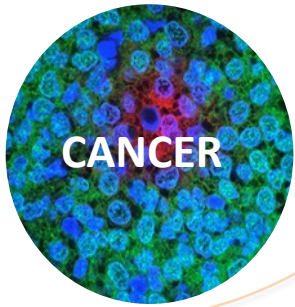
Autoantibodies against type I interferons continue to confer a higher risk of severe COVID-19 in fully vaccinated population? (PI: Xavier Solanich Moreno)

The role of empathy in the development of moral distress and its implications in the work performance of health care professionals during Covid-19 (EMDIC) (PI: Antoni Rodríguez Fornells)

Research organization

2019
-
2022





CANCER



JOSEP MARIA PIULATS

(1) Molecular Mechanisms and Experimental Therapy in Oncology (Oncobell)

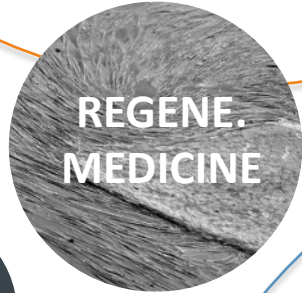


ISABEL FABREGAT



ESTEVE FERNANDEZ

(2) Epidemiology, Public Health, Cancer Prevention and Palliative Care



REGENE. MEDICINE

(4) Regenerative Medicine



ANGEL RAYA



FRANCISCO CIRUELA



NEURO

(3) Neuroscience

EDUARD MONTANYA
(5) Diabetes and Metabolism Program



VIRGINIA NUNES
(6) Genes, Disease and Therapy



ANGEL CEQUIER
(7) Cardiovascular, Respiratory and Systemic Diseases and cellular aging



JOSEP M. LLOP
(8) Digestive system, diagnostics, pharmacogenetics, care support and clinical prevention



TRANSL. MEDICINE



JORDI CARRATALÁ
(9) Infectious disease and transplantation Program

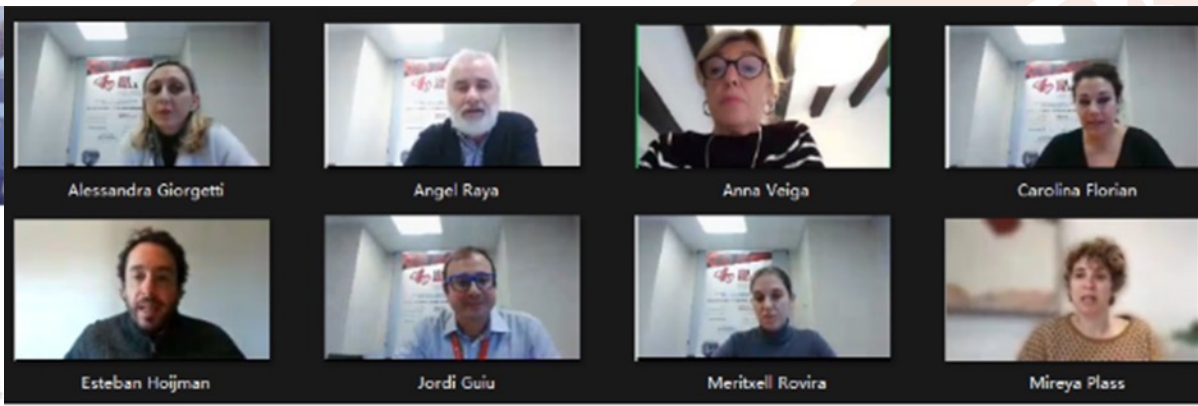


New international exchange program for predoctoral researchers with Shenzhen Bay Laboratory

Initially focused in Regenerative Medicine

The program contemplates the mobility of 5-10 students per year who will carry out stays of at least 6 months.

The signing ceremony was accompanied by a scientific symposium with close to 20 presentations by principal investigators from both sides

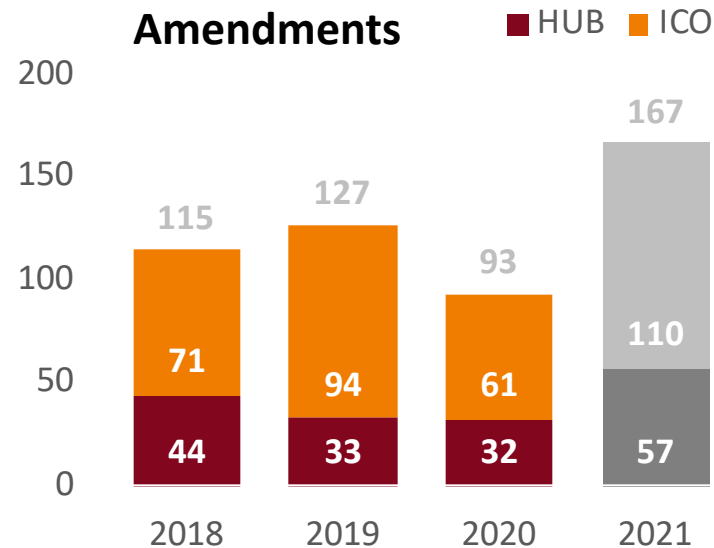
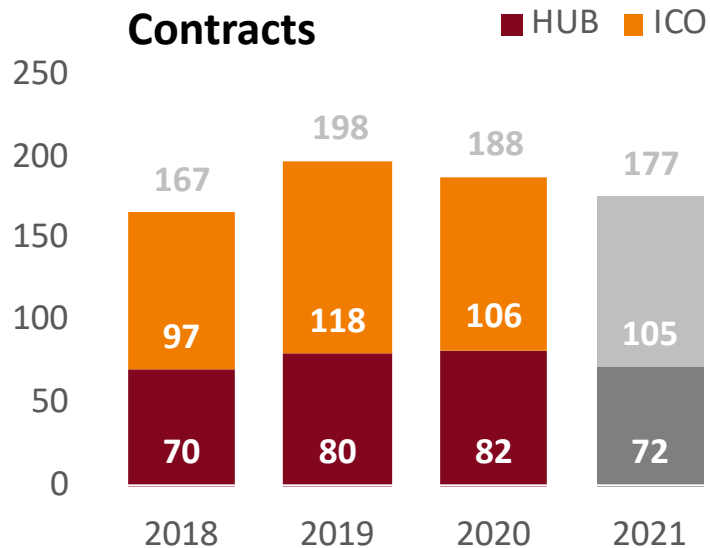




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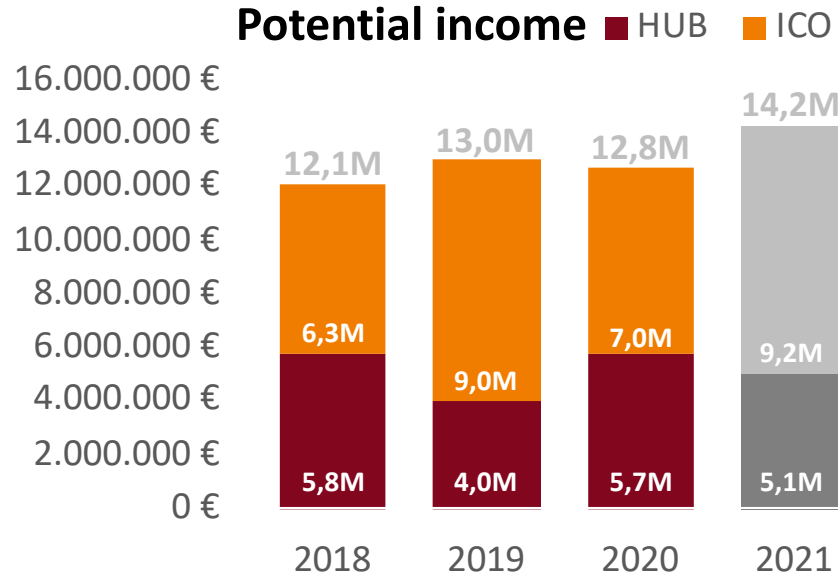
Clinical research and innovation

2021 Legal Unit Clinical trials



** 2021 is a forecast based on 9-month activity*

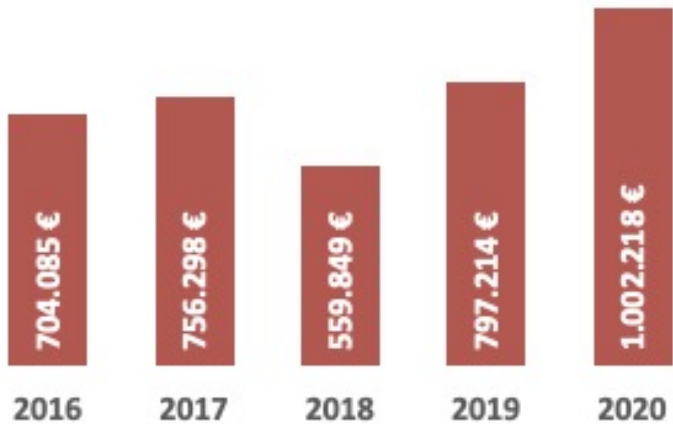
2021 Legal Unit Clinical trials



** 2021 is a forecast based on 9-month activity*

Formula to estimate potential income: Maximum budget per completed patient multiplied by the number of patients included in the contract. In the case of several branches, it is calculated on the largest branch.

Raised funds 2016-2021: collaborative innovation projects



2021 activity:

60

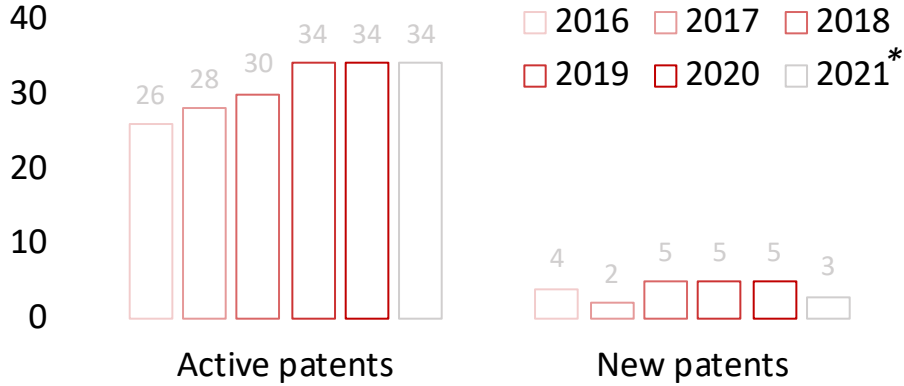
meetings with
Venture capital
and investors

50

meetings with
companies

Innovation

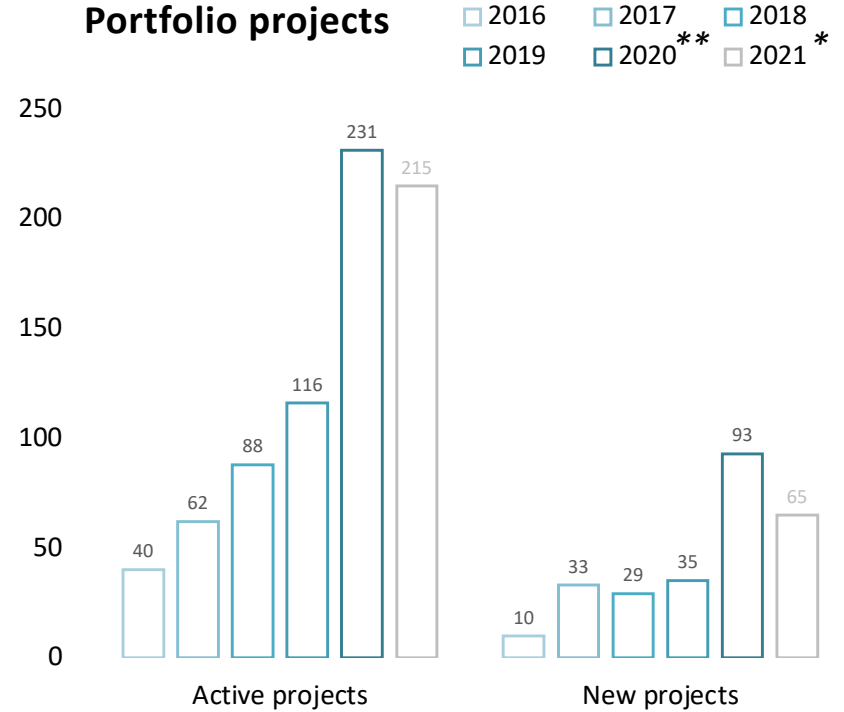
Patents



* 2021 data is preliminary

** 2020 data included 86 COVID projects

Portfolio projects



Active spin-offs at IDIBELL

XENOPAT

Founding year: 2014

Preclinical services including Orthoxenograts® generation and access to OrthoXenoBank®. It also offers personalized treatment services to select the best cancer treatments.

 Tractivus

Founding year: 2016

Development of customizable stents (using 3D technology) and bioactive coatings (antibacterial and / or drug release).

 Admit
THERAPEUTICS

Founding year: 2017

Development and commercialization of a new Kit for the early detection of Alzheimer's by means of an epigenetic analysis in blood, measuring methylcytosines in the mitochondrial DNA.

 REMb
Therapeutics

Founding year: 2018

Development of a new molecule to prevent ultra-resistant gram-negative nosocomial infections in Intensive Care Units (ICUs).

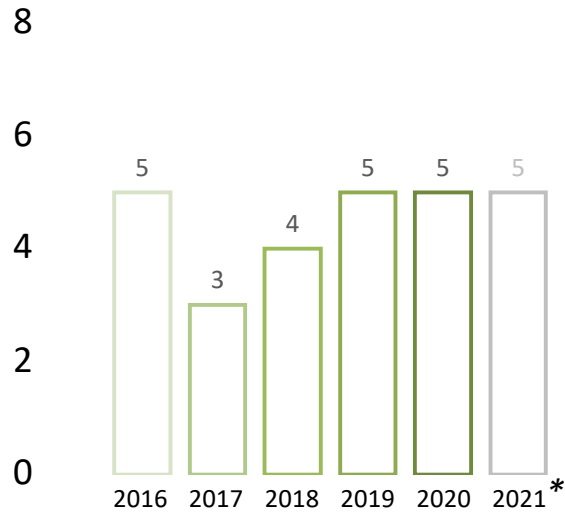
 Aptadel
therapeutics

Founding year: 2020

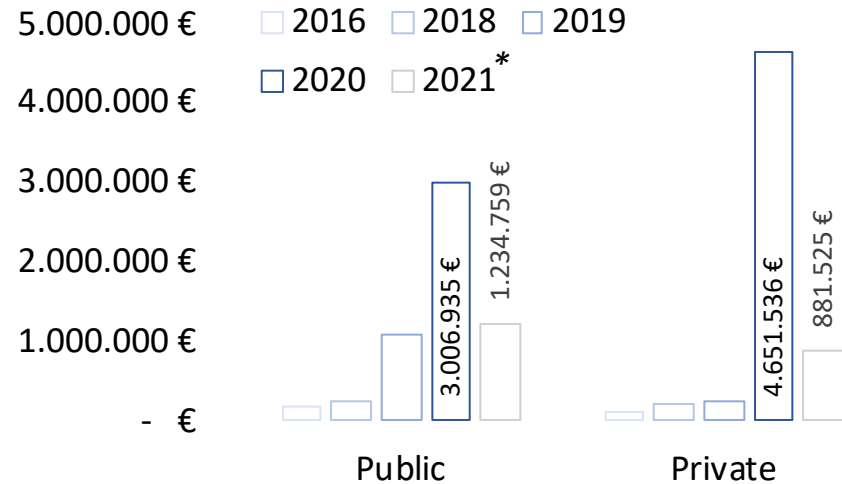
Development of a new platform for targeted therapy against cancer based on aptamer technology that consists of nanoparticles loaded with therapeutic agents, such as RNA molecules or chemotherapeutic drugs, targeted to different tumors, currently focused on Ewing Sarcoma.

Innovation

Active spin-offs



Raised funds by spin-offs



*2021 data is preliminary

Internal call for innovation projects

The aim of the call, funded by the **PECT grant 4LocalHealth**, is to accelerate projects with at least **TRL 4** in **personalized medicine** in pilot phases that might have a short/mid-term high potential for technology transfer of results

SELECTED PROJECTS

Purpose.Prp-ho family: novel biologic immunomodulators and inflammation resolvers against autoimmune diseases (PI: Josep Maria Aran Perramon)

GAME4HEALTH. Therapy in your pocket: effectiveness of serious games in behavioral addictions (PI: Susana Jimenez Murcia)

MYSURGERY. Perioperative mobile application (PI: Esther Méndez Arias)

Total allocation of 100,000 €

3

ERP implementation

ERP implementation

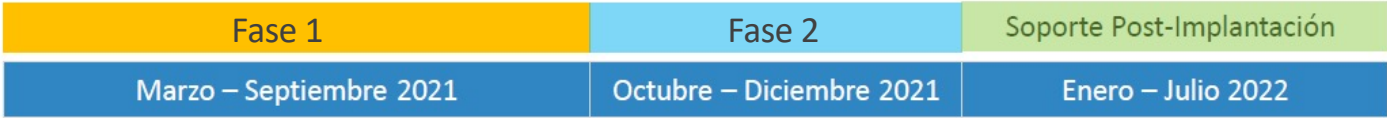


fundanet®

- Fase 1
- Fase 2
- Fase 3



Initial Plan



Executed Plan

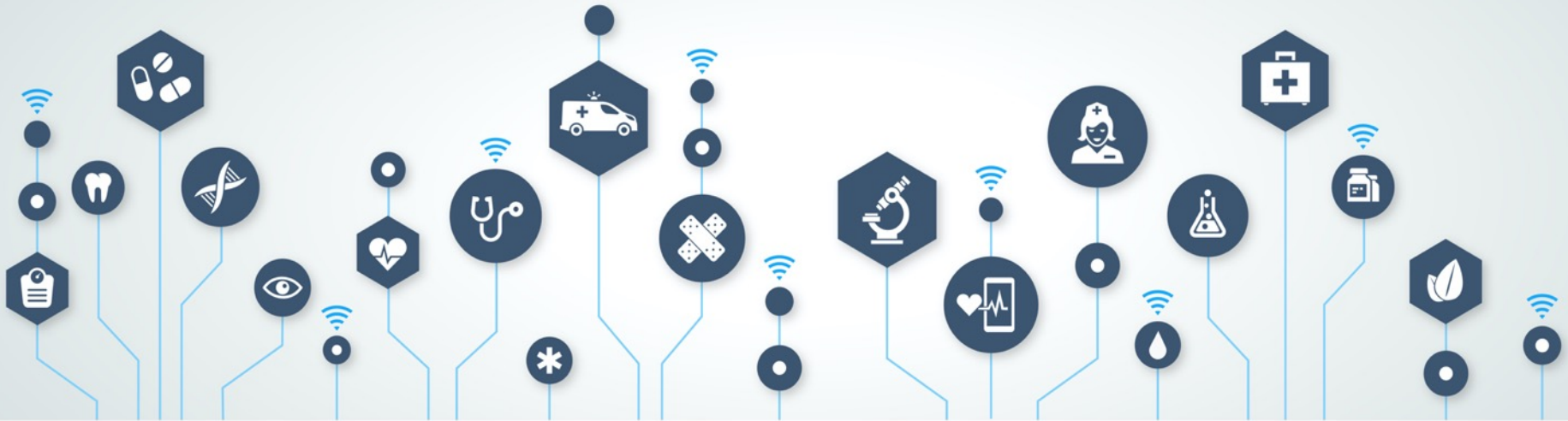




4

Smart Health Community

SMART HEALTH COMMUNITY





Personalized medicine

Improve the health and quality of life of citizens by accelerating the transformation to a Personalized Medicine model centered on the patient.



Digital Health and Health Data

Improve the efficiency and sustainability of the health system by moving towards a digital health model, cleaner, sustainable and accessible, and of greater efficiency, based on an efficient use of health data.



Emerging technologies and the knowledge economy

Accelerate the economy through the incorporation of emerging technologies, improve the growth of companies based on the generation of knowledge, the creation of start-ups and the attraction of investment, and create quality employment contributing to the attraction and retention of talent.

SMART HEALTH COMMUNITY

HEALTH, MEDICINE AND OPEN INNOVATION FOR CITIZENS



BAIX LLOBREGAT: L'Hospitalet & Esplugues

- ✓ 1,1M population
- ✓ Biomedical Cluste
- ✓ Health sector with big economy impact
 - ✓ 54 Companies
 - ✓ 2,275 M€



9.262
professionals



500
Research projects



34
Licensed patents



665.000
Annual visits



3.805
Originals per year



9
Active spin-offs



1.647
Clinical trials



4.263
students



2
empresas

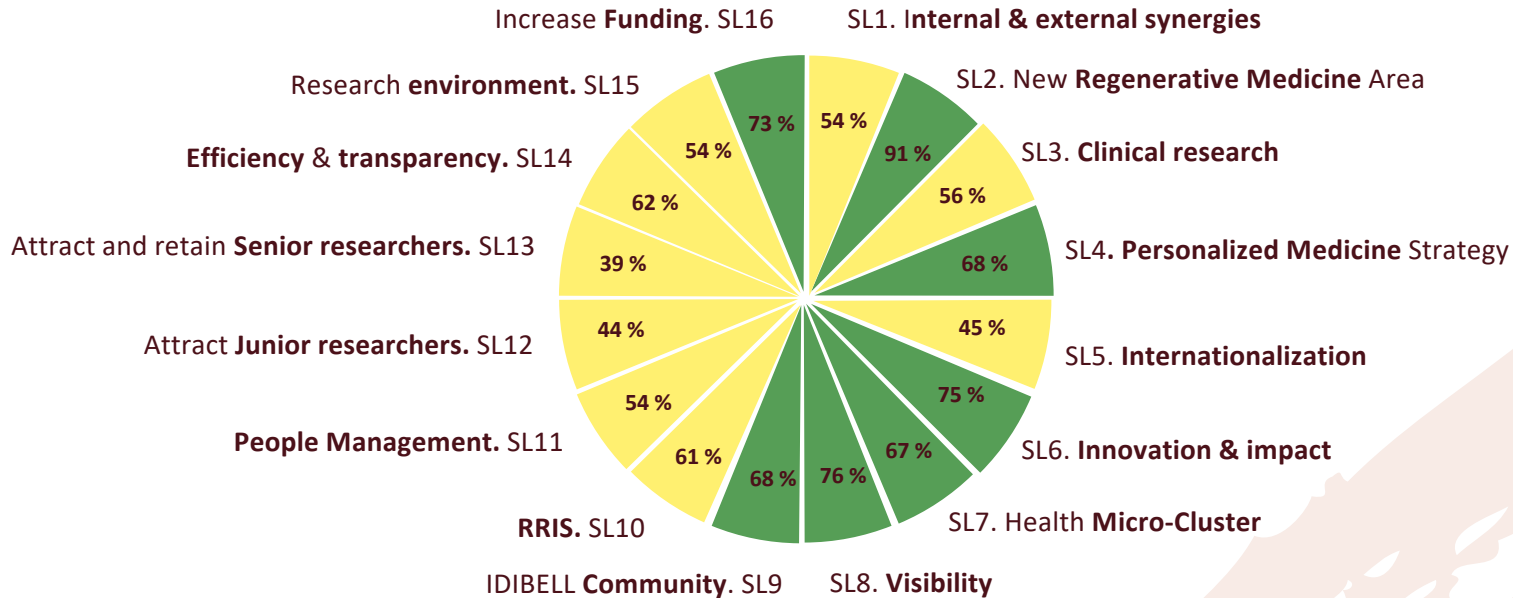


5

New strategic plan

2018-22 Strategic plan

Performance up to May 2021



Average Strategic Plan Performance: **61%**

New strategic plan 2023-2027

Delegation committee and trustees

December 2021

Collection of KPIs and closure

2T2023

2015 – 2017

2018 – 2022

2023 – 2027

Trustees
Coordinators & GLs
CCI
Works council
SAB

4T2022

Approval
Delegation committee and trustees






6

People

TELEWORK CONDITIONS Technicalities

- At least 3 months working in IDIBELL premises
- Having agreed the working plan with responsible
- **IDIBELL-inventoried computer**
- **Sufficient internet connection and a safe environment** endorsed
- Risk evaluation approved by the PRL Department after self-reporting
- **Expenses reimbursement**
 - No reimbursement of connectivity or other related-expenses.
 - After risk evaluation purchase of **ergonomic equipment** may be considered
- **Mandatory training to be completed**

IMPLEMENTATION PERIOD:

- **4 November 2021:** Applications welcome
 - **End of December 2021:** First approvals by the Evaluation Committee
 - **2.01.2022:** Teleworking officially implemented.
 - **From 01.07.2022:**
 - Interim evaluation by the Direction
 - Discussion with Working Council in order to evaluate further steps
- 

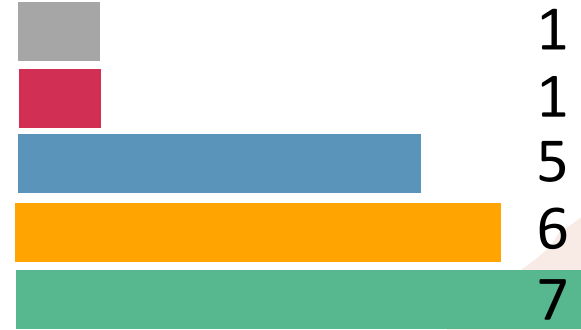
IDIBELL Seminar Series 2021



No. refers to attendees at each event

SPAIN
 UK
 PORTUGAL
 USA
 GERMANY
 ITALY
 NORWAY
 SWEDEN

No. of webinars by research area



4 #IDIBELLconnect

16 #IDIBELLseminars

46 attendees on average

7 women **13** men

All events have been held online through Microsoft Teams Meeting

IDIBELL Seminar Series 2021



Organized by



No. of webinars by
research area



37 #IDIBELLfellows speakers
55 attendees on average/event
23 women **14** men

All events have been held online through
Microsoft Teams Meeting

Areté Program – Training and Professional Development

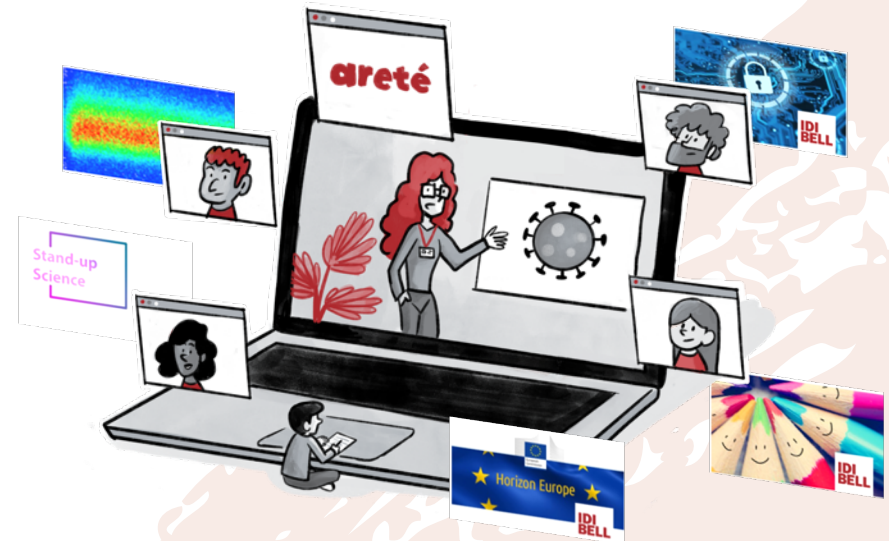
New training offerings

178 hours of training
+650 members trained

30 courses organized by Talent
7 courses by Scientific & Technical Services
4 course by Pre-Award
1 course by Post-Award
1 course by Communications & Fundraising
1 course by Information Technologies

ARETÉ LMS platform

2 ongoing online courses
6 courses under development



PhD Day 2021



2021 | PHD 2021 | DAY

22 October 2021

Organized by



With the support of



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006544

172 registered participants

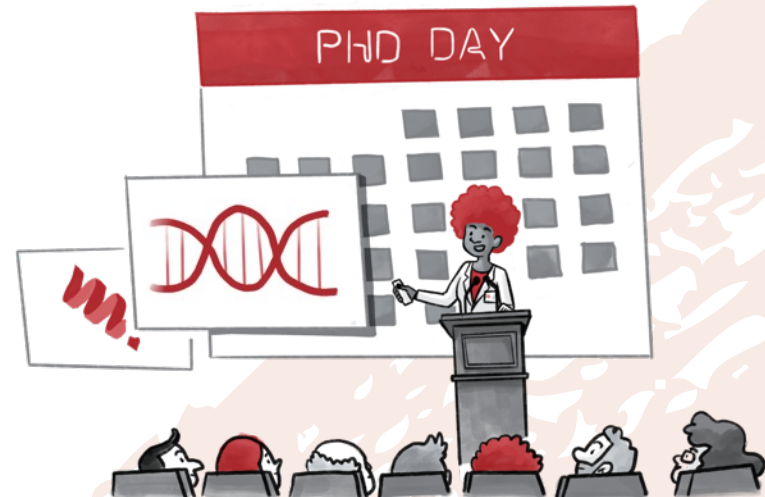
Hybrid event

10 Oral communications

44 Poster presentations

1 Keynote

1 Panel on Open science



Career Day 2021

2021 CAREER DAY

Building a culture of innovation

18 – 19 November 2021

L'Hospitalet de Llobregat

Partners:



[ADmit Therapeutics](#)



[VCNBiosciences](#)



[AtG Therapeutics](#)



[RemAb Therapeutics](#)



[Aptadel Therapeutics](#)



[Xenopat](#)



[Tractivus](#)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006544



ISPAS Project



Panel I:

Careers in R&I

Panel II:

How to make an academic spin-off successful

Keynote: How to sell your idea to your prospects – Persuasion and impact

Workshop: Business model canvas

51 registered participants
9 speakers/trainers
5 women **4** men

This event has been held online through Microsoft Teams Meeting, except for the workshop

HRS4R Award Renewal



**We put people at
the heart of our
strategy.**



Gabriel Capellà
R4 | Director



**Fernando
Fernández-Aranda**
R4 | Scientific Director



Francisco Ciruela
R4 | Program Coordinator



Angel Raya
R4 | Program Coordinator



Ivan Prieto
R1



Francesca Matteinni
R2



Laura Valle
R3



Isabel Fabregat
R4 | Program Coordinator



Anna Veiga
R4 | As Ombudsperson

Leadership and Researchers who participated in the interviews with assessors of the European Commission

HRS4R Award Renewal

Suggestions and recommendations by the assessors include:

- make sure that all staff (payroll and non-payroll) are **recruited and treated equally**
- make sure R1/R2 have **good supervision**
- put in place more actions to **drive internationalization** and attract international researchers
- revise **evaluation and appraisal systems** to take into consideration mobility, public engagement, OA publication, data management, citizen science efforts
- strive for the **golden route in Open Access**
- invest more energy on the **implementation of the OTM-R policy**, by developing accurate guidelines for selection committees and transparent criteria for the appointment of selection committees
- **advertise all positions on EURAXESS**

**We put people at
the heart of our
strategy.**



Recruitment and Selection



265 job openings

59 Research

170 Scientific Support

36 Management Support

TEAMTAILOR, NEW JOB PORTAL

MAIN OBJETIVES:

- Provide a **better service** to the Hiring Managers and candidates.
- **Improve the hiring procedures** and make the process in the IDIBELL community comfortable and agile.
- **Compliant with GDPR regulations**
- **Attract talented candidates.**

SINERGIA 2021

Festa de la recerca i la innovació
en salut de L'Hospitalet

Del 15 al 20 de novembre

Activitats en viu i propostes virtuals
en el marc de la 26^a Setmana de
la Ciència.

sinergia.l-h.cat
#SinergiaLH



Open day

- Visits
- Scientific talks
- Escape room in the labs

Specific audiences

- Medicine students: visits to the SCTs, HUB Operating rooms and ICO robotics pharmacy
- Patients: dialogues between professionals and associations
- Tàndem INS Bellvitge: visits

Digital

- Translation of all contents (including the virtual IDlescape) to Catalan, Spanish and English
- 7 new Stand-up science monologues
- 3 Quinaciència capsules