



IRB
BARCELONA

INSTITUTE
FOR RESEARCH
IN BIOMEDICINE



Annual Report
Summary 2014



Since the Institute for Research in Biomedicine was founded in October 2005, we have made remarkable progress in putting together a team of exceptionally talented scientists and staff, making ground-breaking research discoveries, and putting in place outstanding programmes for training, innovation and public engagement in science.

In 2014, we published 212 papers in peer-reviewed journals, 90% of which are ranked among the 25% best in their field, contributing to the understanding of the basic mechanisms of complex diseases and the design of more effective drugs.

In summarising the key accomplishments of 2014, I am confident that we have made great strides in growing our community and positioning IRB Barcelona as a leading and competitive biomedical research institute worldwide, with much to contribute and much to offer.

For more information about the scientific activities and events that marked 2014 at IRB Barcelona, consult our full annual report: www.irbbarcelona.org/annualreport2014.

Cover: Image of a mouse lung obtained with custom lightsheet microscopy (MacroSPIM), a ground-breaking technique being developed at IRB Barcelona. Before imaging, the sample is made transparent with an optical clearing technique. Sample: Jelena Urošević, Clearing: Lúdia Bardia.

Joan J. Guinovart
IRB Barcelona Director

Awards and recognitions in 2014



Patrick Aloy

Received an ERC Consolidator Grant



Eduard Batlle

Received an ERC Proof of Concept Grant



Raúl Méndez

Joined the Botín Foundation's prestigious Technology Transfer Programme



Antonio Zorzano

Received ICREA Academia award
Of 23 IRB Barcelona group leaders, 11 are ICREA Research Professors and 2 are ICREA Academia award holders



Salvador Aznar-Benitah

Received the Bank of Sabadell Award for Biomedical Research



IRB Barcelona

Received the seal of HR Excellence in Research

Strengthening international collaborations

Collaborations to reinforce relations between IRB Barcelona and research institutes linked to hospitals and international institutes are a strategic priority for IRB Barcelona.



Institute for Molecular Life Sciences
Radboudumc

In 2014, a new agreement with the **Nencki Institute for Experimental Biology (Poland)** was signed, facilitating the exchange of researchers and especially of PhD students. Existing collaborations, such as that with the **Radboud Institute for Molecular Life Sciences (RIMLS, The Netherlands)**, have been expanded by increasing the relations between the research community of the two institutes with the prospective of conducting a joint training programme.



IRB Barcelona is part of the future Spanish node of **ELIXIR**, a sustainable European infrastructure for biological information, supporting life science research and its translation to medicine, agriculture, bioindustries and society.



The Advanced Digital Microscopy Facility is actively involved in the development of **Eurobioimaging**, a large-scale pan-European research infrastructure that aims to provide open user access to a complete range of state-of-the-art imaging technologies in biological, molecular and medical imaging for life scientists in Europe and beyond.

Training at IRB Barcelona



10 PhD students joined IRB Barcelona under the “la Caixa”-Severo Ochoa & FPIs programmes within the Severo Ochoa grant.



More than a hundred PhD students took part in the first **IRB Barcelona PhD Student Retreat** on 14-15 November 2014.

Maths 4 Life

The new **Maths4Life** programme was launched in the summer, providing opportunities for university students to merge maths, physics and statistics with the life sciences.



IRB Barcelona’s Postdoc Council organised the first **IRB Barcelona Postdoc Day** on 3 April 2014 to give postdoctoral fellows in the area of Barcelona the opportunity to share their science and ideas on their future careers.



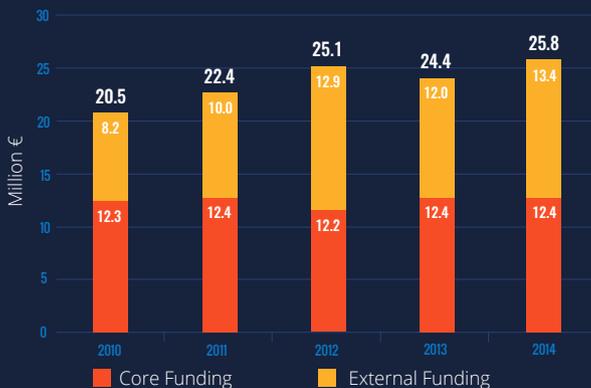
Two **Barcelona BioMed Conferences**, organised in collaboration with the BBVA Foundation, gathered 300 experts from around the world at the Institut d’Estudis Catalans to discuss the latest breakthroughs in the following fields:

- Amyloid- β and Alzheimer’s Disease: From Fundamental Principles to Therapeutic Strategies (9-11 July 2014)
- Transporters and other Molecular Machines (17-19 November 2014).

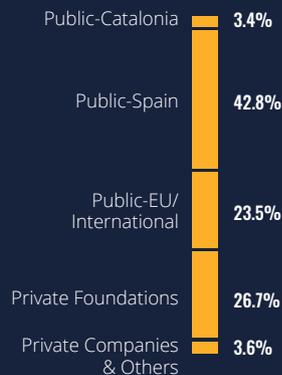
Facts & Figures

Funding

Running budget 2010-2015



External funding sources



Number of projects



169

National and International research projects and networks

Innovation

11 new technologies identified and currently under evaluation

4 new patent applications and international patent extensions

35 agreements with private entities

10 projects funded by Proof-of-Concept competitive funds

Training

49 PhD theses defended

157 seminars

9 workshops

510 scientists took part in our three international scientific conferences

Public engagement

As part of our public engagement and science education activities, we hosted:

84 high school students

18 teachers

3,300 visitors from the general public

More than

1,000,000

people have seen the IRB Barcelona video to raise awareness and support for our research

Human resources



45

Administration

373

Scientific staff

418

IRB Barcelona members

56.7%

Women

43.3%

Men

344

Laboratories

23 Group leaders

33 Research associates

99 Postdocs

126 PhD students

54 Technicians

9 Others

29

Core Facilities

7 Core facility managers

22 Core facility officers

International staff



34 Countries

Represented at IRB Barcelona

38%

PhD student community

53%

Postdoctoral community

Publications



A total of

212

publications

Q1

2014 publications with Impact Factor above 20, and with more than 20 citations (May 2015)

17

89.6%

Q1 publications (SJQR 2013)



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DESIGN AND DEVELOPMENT

Ubikmedia, Latent.design

LEGAL DEPOSIT

B-7912-2010

Board of Trustees:



Fundación **BBVA**

Location:



With the collaboration of:



Recognised as:



NARCÍS MONTURIOL PLAQUE RECIPIENT

