



PRBB
Performance
Report
2019

Barcelona
Biomedical
Research
Park

June 2020

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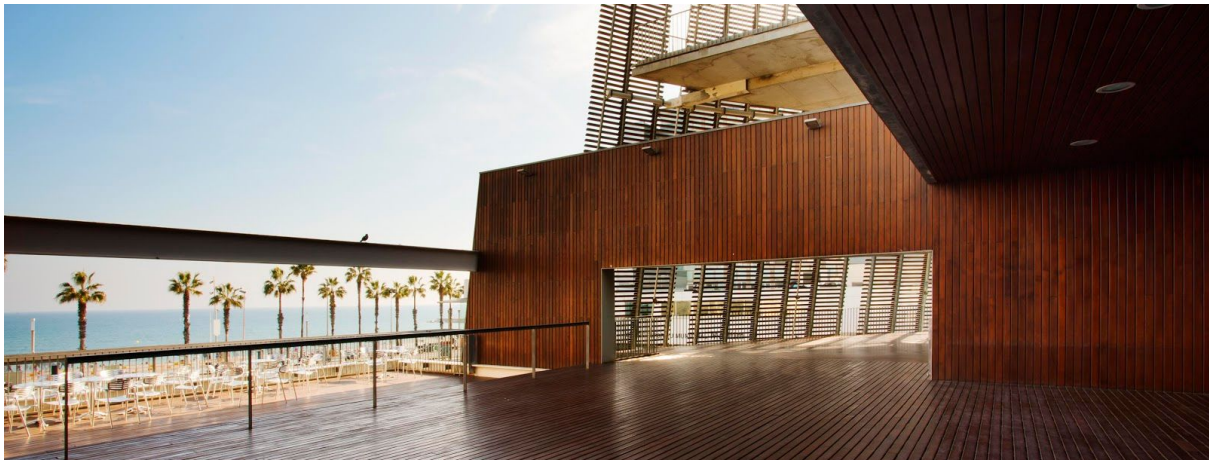
If you need to print,
please print double sided.
It is designed for this purpose.

PRBB
Dr. Aiguader, 88
08003 Barcelona
Spain

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The Barcelona Biomedical Research Park (PRBB) is an inspiring environment for life sciences and biomedical research. This large scientific hub brings together several research centres and a critical mass of researchers in various fields. Its international community of residents can access a range of cutting-edge scientific and technical services, all under one roof, and it is also connected to Hospital del Mar, a university hospital.

From our unusual perspective in May 2020, caused by the Covid-19 pandemic, we invite you to a look back to 2019 and review the main highlights and activities of last year that took place @the PRBB.



“

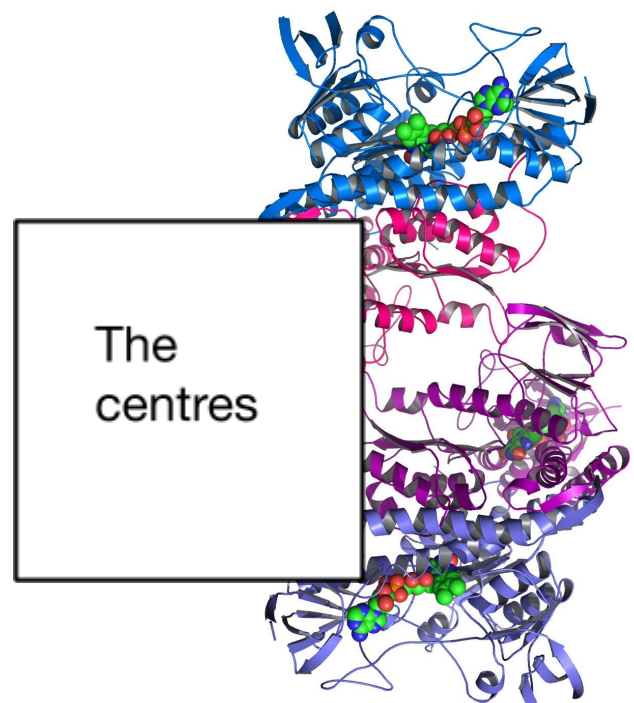
The past, like the future, is indefinite and exists only as a spectrum of possibilities.

Stephen Hawking

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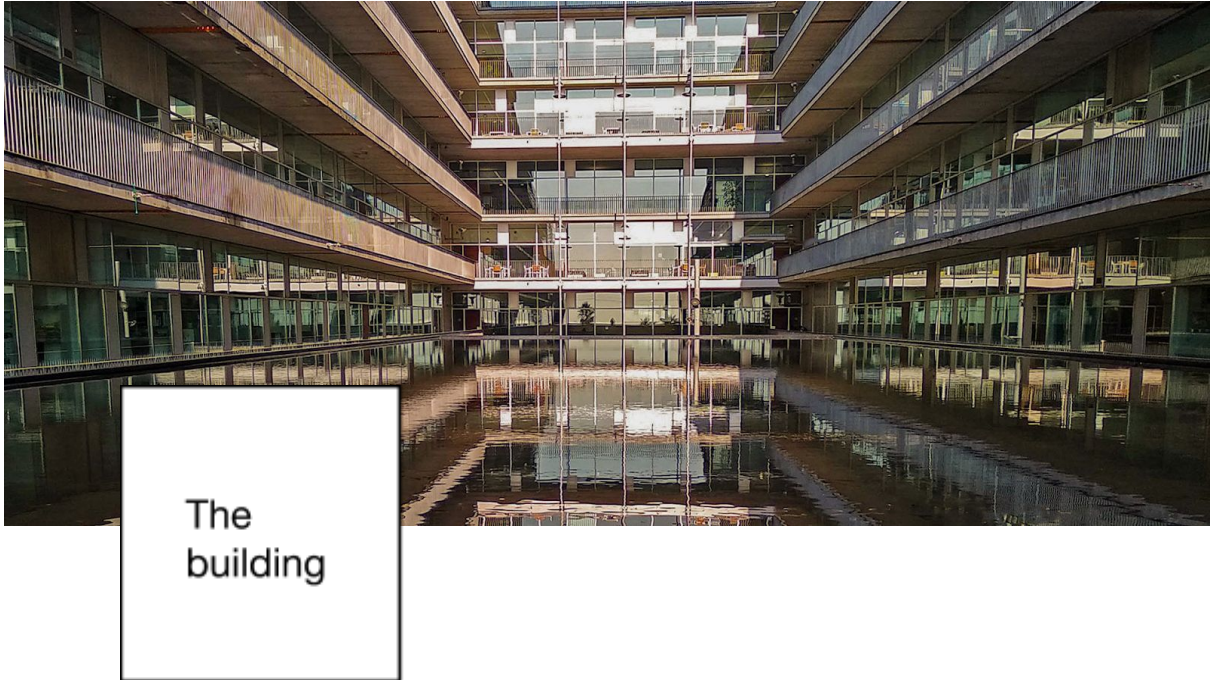
Leading institutes in their field. In Spain and beyond.

- Hospital del Mar Medical Research Institute (IMIM)
- Department of Experimental and Health Sciences at Pompeu Fabra University (DCEXS-UPF)
- Centre for Genomic Regulation (CRG)
- Barcelona Institute for Global Health (ISGlobal, Mar Campus)
- Institute of Evolutionary Biology (IBE: CSIC-UPF)
- European Molecular Biology Laboratory (EMBL Barcelona)
- Institute of Applied Radiopharmacy of Barcelona (IRAB)



Highlights 2019





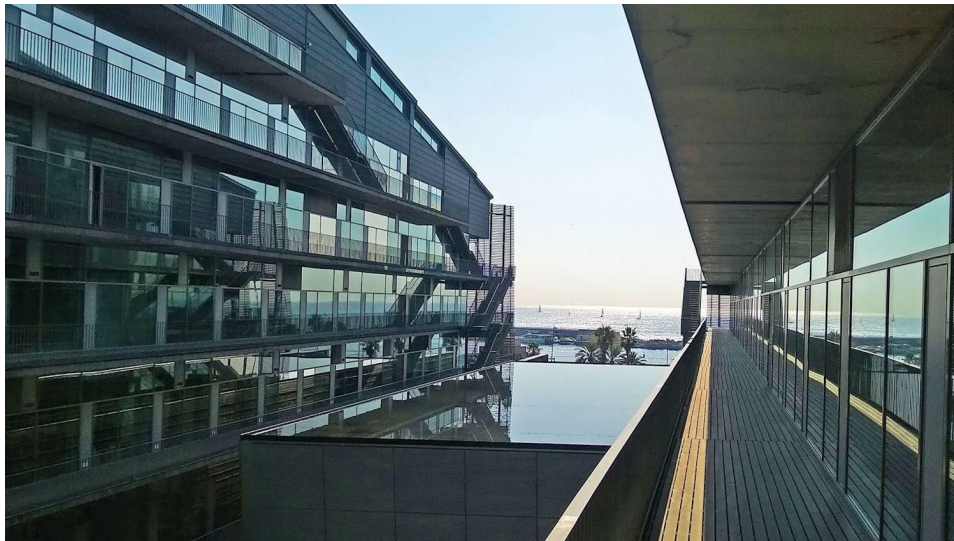
The PRBB recovers the characteristic sheet of water on the roof of the Auditorium

For almost all July and August workers and machines could be seen demolishing and removing the debris of the Auditorium roof, followed by its reconstruction and the application of insulating products. Now, the PRBB is showing off a new water sheet, an image of the building that will be familiar to many. As explained by the director of general services of the PRBB, Oliver Blanco: “We wanted to reconstruct the original water cover of the Auditorium in order to maintain the characteristic image that a few years ago gave identity to the building. Finally, we have recovered this architectural feature of the PRBB”.

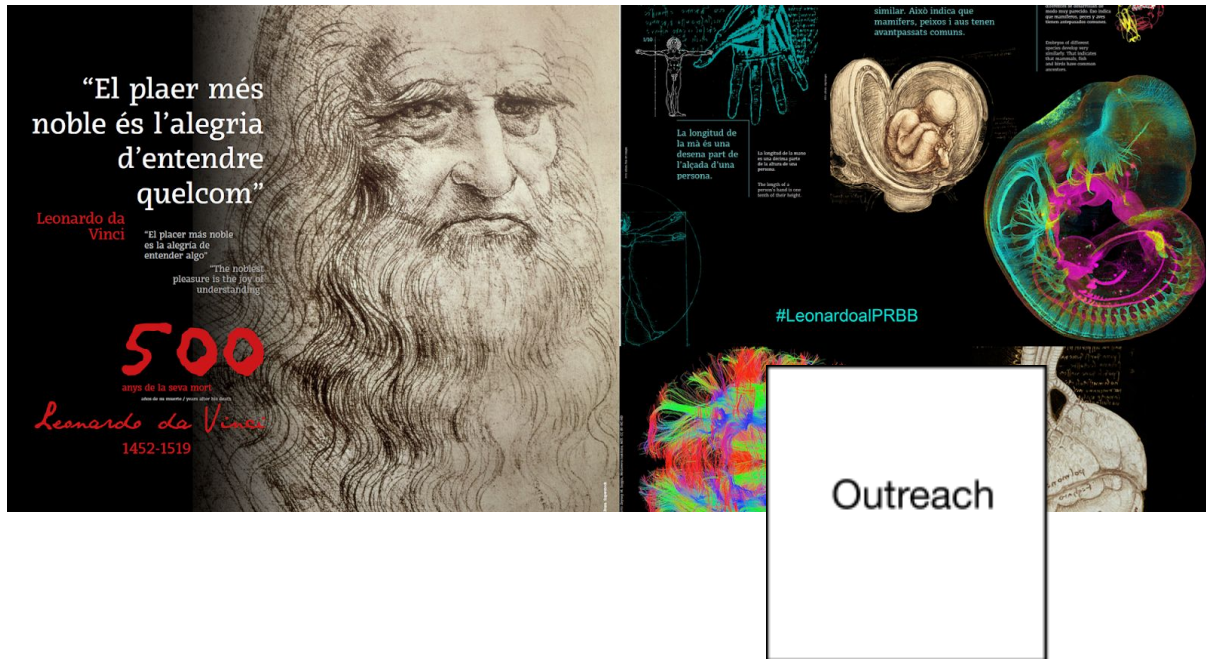
Since its construction, the PRBB building has become one of the most emblematic of Barcelona. Its

uniqueness has been defined, on the one hand, by its peculiar architectural shape, and on the other hand by the water sheet that covered the Auditorium, which this summer has been recovered. Both features, and the fact the building is situated around the empty space of an inner square, have helped to create a highly successful scientific community.

According to the architects of the PRBB, Manel Brullet and Albert de Pineda, the central inner space of the building where the Auditorium is located is very influenced by the water sheet at the top, which makes the light more vibrant and connects the building with the sea.



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“Leonardo da Vinci at the PRBB”, a mural decoration in the metro

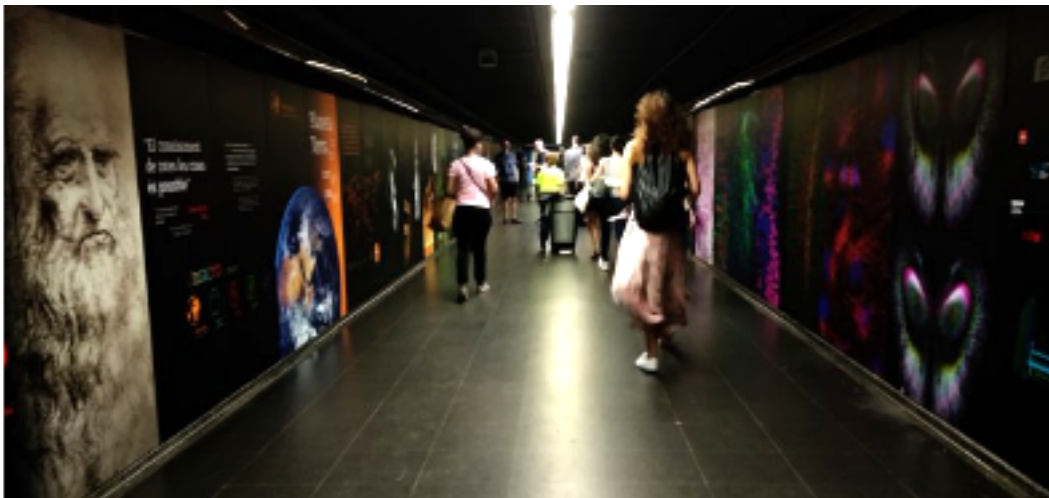
From July 25, and for four months, passengers on the line 4 of the Barcelona subway got surprised when walking through the corridor of the Ciutadella/Vila Olímpica station, the closest to the PRBB.

The Park and its centres have created a mural decoration, “Leonardo at the PRBB“, to offer the tube passengers a look at the human biology, commemorating the 500th anniversary of the death of Leonardo da Vinci (1452-1519).

Under the statement of this multidisciplinary painter and scientist, “the noblest pleasure is the joy of understanding“, a small part of the current scientific knowledge about humans is displayed in a very visual way. The guiding thread of the sample, “from macro to micro“, follows the research

carried out at the PRBB, where more than 800 scientists study many different aspects of biomedicine, from all areas and levels; from the smallest (molecules and DNA) to the largest (populations and interaction with the planet), passing through cells and tissues.

The initiative was led by the PRBB, together with its research centers, and has the collaboration of the TMB Foundation and the support of the Metropolitan Area of Barcelona (AMB).



Resources:

[PDF Leonardo at PRBB 2019 \(15 Mb\)](#)

[Leonardo at PRBB in ISSUU](#)

EMBO
reports



Finding levers for culture change in science - the power of glocal

Elinor Thompson, strategic advisor of the PRBB Intervals Programme, published an article in EMBO Reports. Under the subtitle “Local initiatives to change the culture of science from competition to collaboration and cooperation”, she manifests the need for professional development programmes like Intervals to create community and to change scientific culture.

Resource:

doi.org/10.15252/embr.201846980



El·lipse goes digital

After more than 10 years and 118 editions of the El·lipse newspaper, the PRBB created a digital format. The new website ellipse.prbb.org, is telling you about everything taking place at the PRBB in a fresher, more dynamic way; offering a 360 degree look at the latest biomedical news; from the local to the global, in three languages; reaching more people, quicker.

“Goodbye’ paper and ‘hello’ to a huge range of possibilities. There is now more space, and more flexibility in both topics and formats. Watch out for exciting infographics and videos deciphering the mysteries of the latest discoveries at the

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PRBB centres! It is much easier to share news with friends and on social media. And we are more environmentally friendly! So please subscribe.

In Eℓlipse you find an eclectic mix of 'sciency' things, which we classify in:

Research: the essence of what we do, pushing the limits of biomedicine (latest publications, new scientific projects)

Public engagement: everything we do, we do it for you (outreach and citizen science initiatives, educational activities and resources)

Scientific life: the life that surrounds the research world (policy, training, good practice, career development, job offers)

Community: who we are and what we do together (social and other activities)

Resource:

ellipse.prbb.org



The initiative of the PRBB for the “Biennial Ciutat i Ciència” in Barcelona

During February, the city has offered more than 70 science outreach activities within the “Biennial Ciutat i Ciència”, initiative.

The PRBB, with its 6 centres, has been taking part in this Biennale with the aim of bringing science to the citizens.

With the title “Homo Sapiens Urbanus: 7 mirades científiques a l’organisme més complex que coneixem” the park presented on February 12, 7 science short stories explained by young researchers of the PRBB (Postdocs and PhD students). The talks lasted 7 minutes each (or a little more) and covered the biology of Homo Sapiens [Urbanus] from a wide spectrum of points of view, from

bytes and molecules to the entire organism and populations.

Speakers:

- Aitor Mòdol Cano, “Cells also speak to each other”
Cell and Developmental Biology, Vernos lab, CRG
- Artem Komissarov, “Biochemistry, from destroying to creating”, Cell and Developmental Biology, Maurer lab, CRG
- Carlos Toscano
Dynamical Systems Biology, DCEXS-UPF
- Judith Pérez Granado, Integrative Biomedical Informatics, GRIB (IMIM-UPF)
- Konstantina Mitsi, “The sixth extinction caused by humans”, Multicellgenome, IBE (CSIC-UPF)
- Max Hardy Werbin, “Can your immune system get rid of tumour cells?”, Molecular cancer therapeutics, IMIM
- Michael Pineda, Gene Regulation, Stem Cells and Cancer, Cosma lab, CRG

Resources:

[Web of the event](#)

Video [Cells also “speak” to each other](#)

Video [The “Sixth Extinction” caused by humans](#)

Video [Cancer and Immunotherapy](#)

Video [Biochemistry: from destroying to creating](#)



BioJunior and the PRBB Award fill the Park with more than 200 students

As every year, the PRBB organizes the BioJunior Day and the PRBB Prize. On the one hand, high school students attend workshops and talks. On the other hand, the finalists of the prize – organised with the UPF – present their Research Project in front of a jury who decides the winner.

The first prize of the 14th PRBB Award was given to the research project “Sea of plastic, study of the impact of plastics in the Catalan coast”, by Míriam Longás Bosch and Guillem Cuadrada Massanet, both students at the Jesuïtes Gràcia High School, Kostka School (Barcelona).

In this edition, 288 students participated with 266 projects and they made it quite difficult for the evaluators to take a decision.

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On the same day, May 3, the fifth edition of BioJunior took place as well. This event is organized by the PRBB centers and is aimed at 4th year of ESO and bachelor students.

A total of 234 students and teachers from 9 high schools enjoyed a day full of activities at the Park facilities.

A round table about the scientific career was moderated by Maruxa Martínez-Campos, scientific editor of the Communications Department at the PRBB. The speakers at the table were:

- Clàudia Fontserè, PhD student at the Institute of Evolutionary Biology (IBE: CSIC-UPF).
- Estefania Mancini, postdoctoral researcher at the Center for Genomic Regulation (CRG).
- Judit Marin, postdoctoral researcher at the Hospital del Mar Medical Research Institute (IMIM) and doctor at the Hospital del Mar.
- Guillermo Martínez, PhD student at the European Molecular Biology Laboratory (EMBL).

The science talk "Hackeando la comunicación bacteriana", was given by Carlos Toscano, researcher at the Department of Experimental and Health Sciences (DCEXS-UPF).

The programme was completed by several guided visits through many different spaces of the building (laboratories, and scientific-technical services). Also an informative session organized by Barcelona Activa about the professions of the future was given and an activity run by science communicators of "La Ciència Al Teu Món" and the IBE (CSIC-UPF).

Resources:

Web of the [PRBB Award](#)

Video of [Biojunior 2019](#)

The talk: [Hackeando la comunicación bacteriana](#)

Flickr: [Pictures of Biojunior and PRBB Award](#)

Report on [Outreach Activities 2019-2020](#) (PDF)

Report on [Outreach Activities 2018-2019](#) (PDF)



The PRBB opens its doors to citizens

On October 5, the 12th edition of the PRBB Open Day took place. The visitors enjoyed virtual reality and experiments, and attended talks and guided tours.

Throughout the morning, about 2000 people filled the PRBB inner square, the seminar rooms and the laboratories of the park at this annual event, long awaited by both volunteers and the citizens.

From 9:30 am, a large number of people attended the guided tours, in which approximately 1500 people walked through the 26 laboratories and scientific core facilities of the six research centers in the park. At 10 o'clock, the experiments began. About 300 people experimented with electrophoresis gels, and about 400 had the chance to immerse themselves in a miniature world, looking through the microscopes.

Resources:

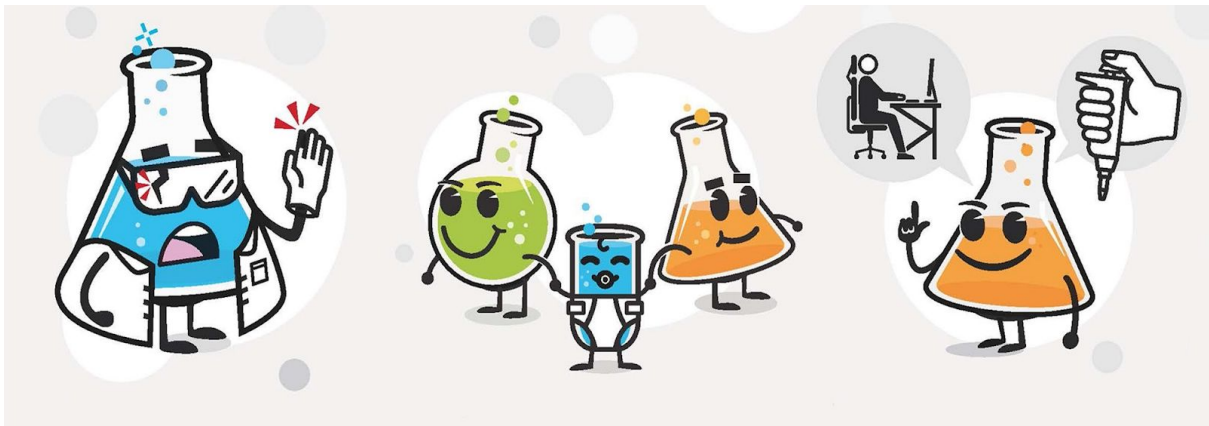
[El·lipse report about the Open Day 2019](#)

[Activity Report of the Openday in Catalan \(PDF\)](#)

Flickr: [Pictures of the Open Day 2019](#)

Follow [#openprbb](#) in Twitter

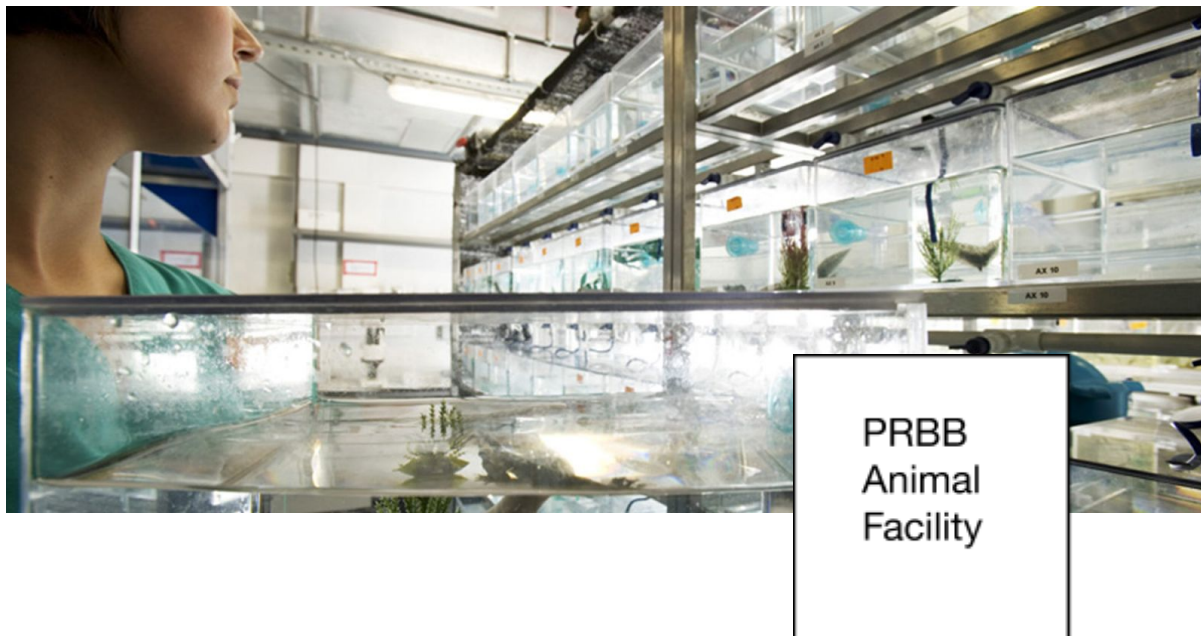




Award for the occupational health prevention campaign of the PRBB centres

For its trajectory since 2010, the Inter-center Commission for the Prevention of Occupational Risks of the PRBB received on April 29, a second prize for the campaign “Prevention is everyone’s business. Start with yourself!”. The award ceremony took place at the Campus Mar of the UPF.

Since it was created, the commission has collaboratively edited the Manual of Preventive Information of the Biomedical Research Park of Barcelona (2010), it has launched the campaign “Prevention is everyone’s business, start with yourself!” (2011), it has implemented a procedure of transfer of biological samples in the PRBB environment and its subsequent revisions (from 2015 to 2018) and it has updated the prevention campaign (from 2018 to 2019), with a great success of follow-up between April 2018 and April 2019.



Debate on animal experimentation

The group ESLA (Students for the animal fight) from the Pompeu Fabra University (UPF) organized the “First animal week” from February 18 to 22, with a series of talks on animals and ethics, jurisdiction, communication and even feminism. On Thursday 22, a debate took place at the university, where four speakers presented some data and their different views regarding the use of animals in biomedical experimentation.

The speakers, two scientists and two philosophers, represented two opposed points of views. For some, using animals to improve biomedical research is justified because of the benefits that experimentation entails, and that we couldn't obtain by any other means – always trying, of course, to use the minimum number of animals and ensuring maximum welfare. For the others, the question is not whether animals are useful or not to progress on a scientific level, but a more basic question; is it morally justified to use them for our benefit?

The four participants seemed to agree on a basic premise; animals are sentient beings, they suffer just like us. So, the ideal goal would be to reach a total replacement of the use of animals in research. However, they have different opinions on whether this objective is really achievable in the short or medium term.

Resource:

[Article about the debate in El·lipse with podcast and video](#)



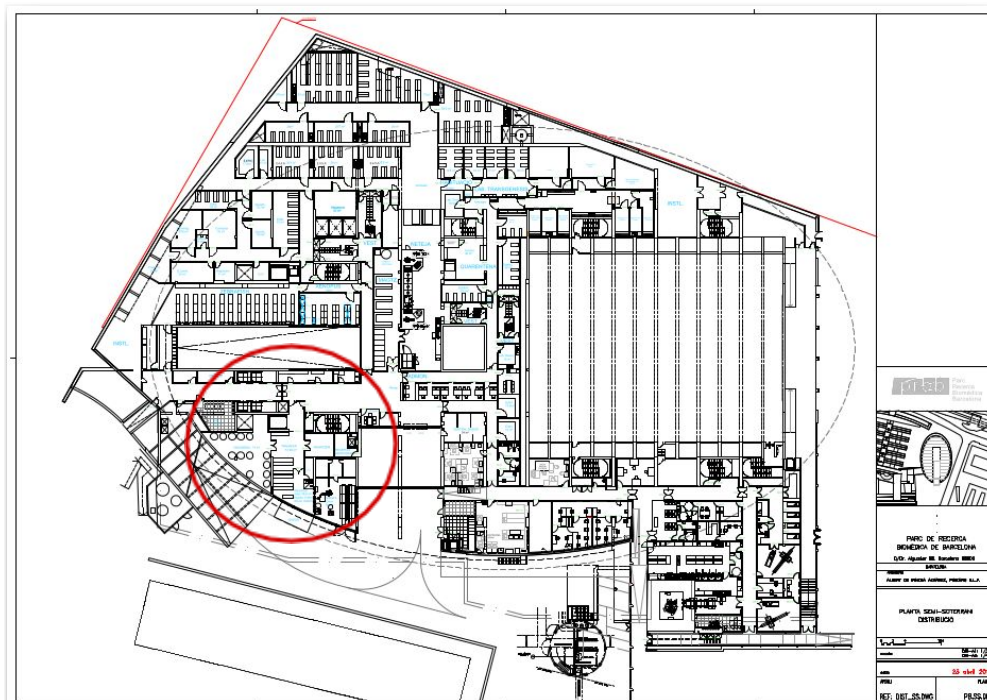
Construction works at the cryogenics facility

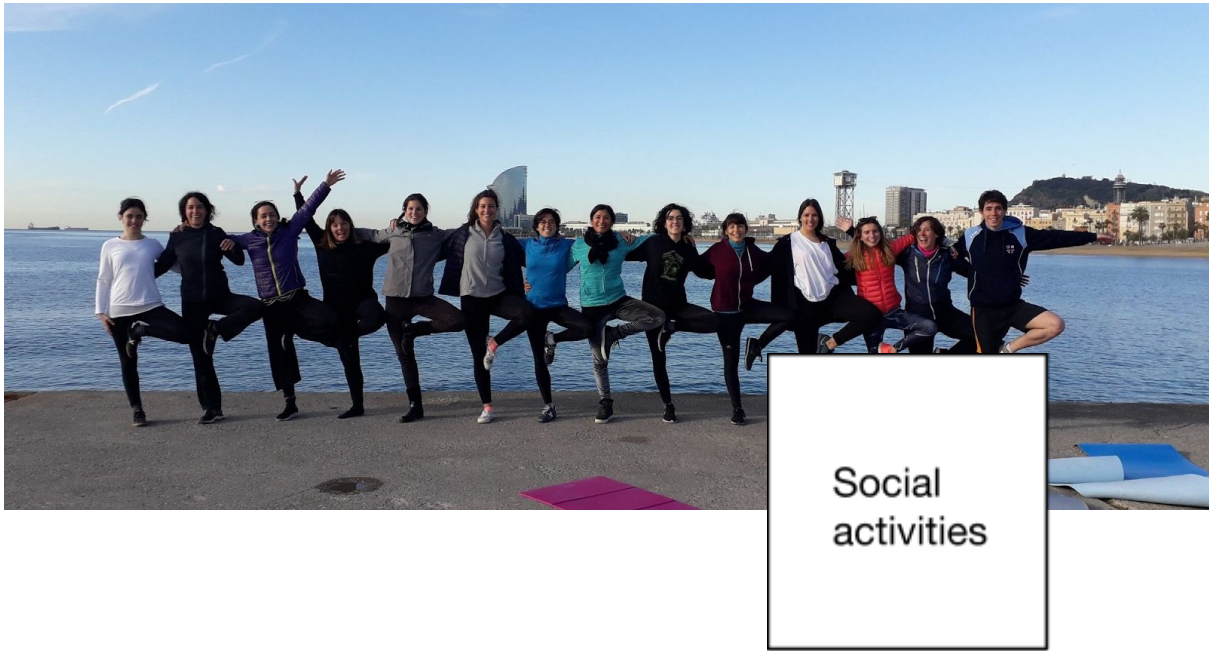
From October 28, 2019 until the end of February, 2020, construction works took place at the cryogenics room on floor -1 to adapt and expand the facility.

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Within the Strategic Plan of the Park, the need to expand this space had been detected. In order to do so, part of the radioactive residue depot, located next to the current cryogenics room, will be used.

Due to the complexity of this modification, the users had to coexist with the construction works during these months. All necessary measures had been taken to guarantee the security of the users and the equipment.





Healthy week at the PRBB: sports, workshops and talks

From April 8 to 12, the PRBB organized many different activities during the Healthy Week, all of them with the same purpose: promoting a healthy lifestyle.

- Spinning, Body Attack, Body Balance and Spa System sessions, led by Claror Marítim sports technicians.
- Yoga sessions on the beach, with Abril Hernández.
- Meditative concert with Tibetan bowls, by Xavier Sorolla.
- Cooking workshop, organized by Clece.
- Food labelling, with Karla Alejandra Pérez-Vega and Montserrat Fitó, from IMIM.
- 5 km race/walk organized by the EMBL.

A total of 185 participants attended the activities held in the PRBB.

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Also, once a month all PRBB residents will find free seasonal fresh fruit on the tables in the lobbies on each floor. This “Be Healthy” campaign wants to encourage a healthy diet.



Tribute to Queen in the PRBB Summer Concert

The choir and orchestra of the PRBB, together with the choir of the Institute of Marine Sciences (ICM-CSIC), made a tribute to Queen. In this summer concert, last June 18, the orchestra also performed musical pieces by the great 19th-century composer Antonín Dvořák, as well as by Charles Offenbach.

The Christmas Concert by the PRBB Choir & Orchestra took place on December 17. The programme included a selection of Disney songs and pieces by Tchaikovsky.

Resource:

[Youtube video of the summer concert](#)



Keep baking for a better world! 5 years of Incubakers at the PRBB

Five years ago, a group of researchers at the PRBB started baking to improve the world and offer the cakes to the residents at the park: the monthly breakfasts of the “Incubakers”. 88 volunteers have been or are part of this project, including both research and admin staff, from the PRBB and from the different centres at the park.

One of the members chooses a charity, calls some bakers to help with the cakes, makes the necessary advertisement and when the bake sale fundraiser ends, he or she transfers the money to the NGO and goes to bed with a bigger smile. And that’s it: simple and sweet!

In five years of work the balance is something to be proud of: the Incubakers have organised 72 solidarity breakfasts for

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more than 60 different NGOs belonging to 32 different countries. The group has raised almost 30,000 Euros to make the world a better place.

Resources:

[Interview with the founders](#) of the Incubakers

Incubaker profile in [Facebook](#) and [Linkedin](#)

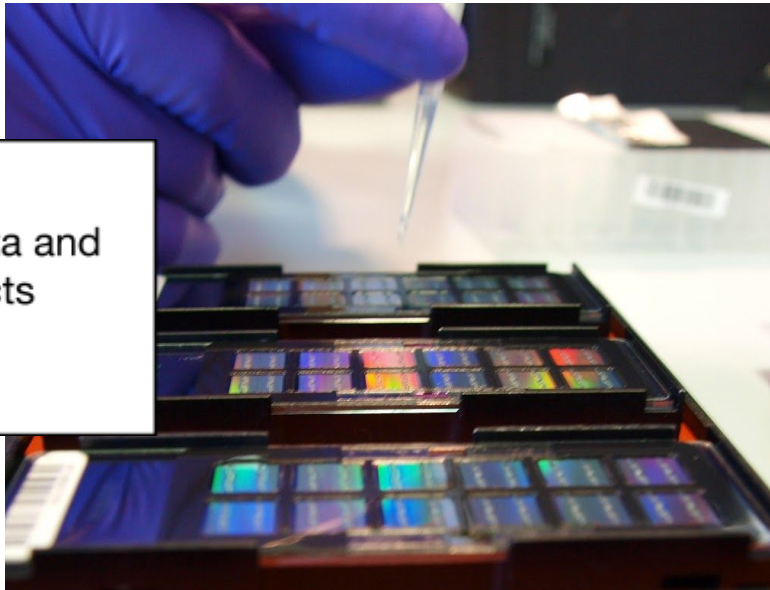


Fridays For Future: PRBB researchers join the cause

On Friday, September 27, PRBB residents wanted to show their solidarity with the “Fridays for Future” student movement asking for action regarding the climate crisis.

Resource:

Follow [#PRBB4future](#) in Twitter



Data and
Facts

Scientific publications from researchers at the park

	2019	2018*	2017*	2016*
Total	1,170	1,167	1,105	1,101
<i>Nature</i>	4	10	6	11
<i>Science</i>	2	3	6	4
<i>The Lancet</i>	1	-	4	-
<i>The New Engl J Med</i>	1	2	2	-
Other Nature group journals	66	57	34	30
Other Lancet group journals	3	5	5	2

(*) There are fluctuations during the year in the total number of publications that are in press at the end of the year. For this reason, the numbers do not coincide with the reports of 2018, 2017 and 2016.

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The PRBB Animal Facility participated in three scientific publications in 2019.

Azkona G, Caballero JM

Implementing strategies to reduce singly housed male mice.

Lab Anim. 2019 Oct;53(5):508-510

Welz PS, et.al.

BMAL1-Driven Tissue Clocks Respond Independently to Light to Maintain Homeostasis.

Cell. 2019 May 30;177(6):1436-1447.e12

Galindo-Campos MA, et.al.

Coordinated signals from the DNA repair enzymes PARP-1 and PARP-2 promotes B-cell development and function.

Cell Death Differ. 2019 Apr 17;



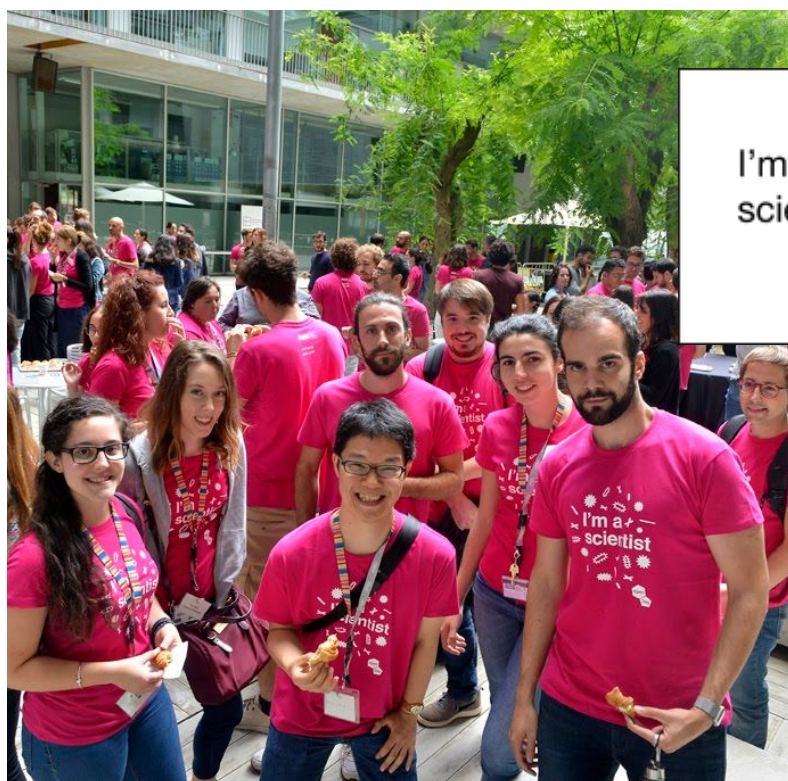
Scientific conferences @ the PRBB

	2019	2018	2017
Total	316	277	322
“PRBB CRG Conferences”	49	41	54
Female speakers	17 (35%)	5 (12%)	11 (20%)

In 2019, 49 “PRBB CRG Conferences” took place at the PRBB (41 in 2018). Most representative locations of the research centres of the speakers were the USA (12), Spain (7), UK (5), Japan (3) and Italy (3).

In 2019, 17 (35%) of the invited speakers of the PRBB CRG Conferences were women. In 2018, there were only 5 (12%) and in 2017 we invited 11 (20%) female speakers.

These conferences are included in the 316 scientific sessions that took place at the park during 2019. Please consult Annex 1 for the complete list of PRBB CRG Conferences in 2019.

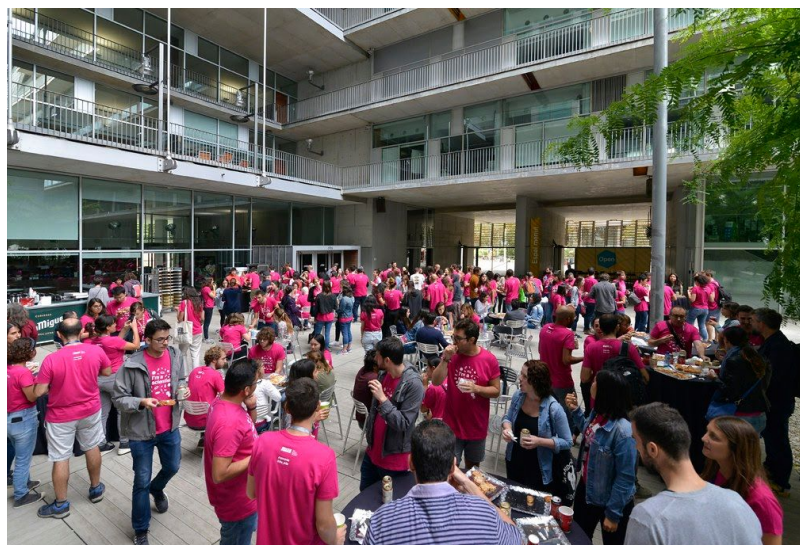


The demography of the residents

	2019	2018	2017
Personnel / Centres			
Total	1,360	1,312	1,366
IMIM	384	359	370
UPF (DCEXS + IBE)	317	384	371
CRG	425	409	423
ISGlobal (Mar Campus)	157	89	134
EMBL Barcelona	36	28	-
IRAB	12	10	7
PRBB Consortium	29	33	35

Categories	2019	% of the total	% women	2018
Senior researchers	167	12	38	162
Postdocs	254	19	56	272
PhD students	243	18	57	237
Research technicians	460	34	66	444
Administrative staff	236	17	67	197
Foreign residents	335	25		299
Men	553	41		537
Women	807	59		775

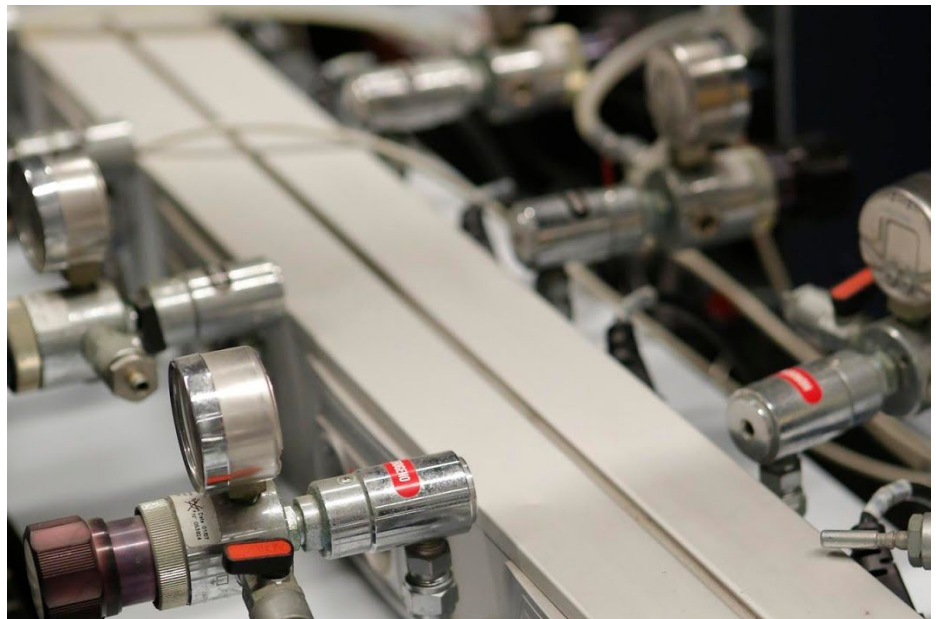
More information: [PRBB Demography 2019](#)



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Data for consumption and maintenance

	2019	2018
Electricity	13,211,926 kWh	13,149,755 kWh
Natural gas	4,879,619 kWh	4,782,343 kWh
Water	24,622 m ³	29,723 m ³
Liquid nitrogen	264,624.92 litres	259,847.17 litres
Nitrogen gas	74,740.55 litres	90,048.42 litres
Carbon dioxide	24,508 Kg	20,529 Kg



Websites and social media

	2019	2018	2017
Social media followers			
Twitter @the_prbb	14,300	11,900	9,145
Facebook	3,875	3,541	3,277
Linkedin	8,479	5,977	4,870
Instagram	926	0	0
Website prbb.org			
Visits	56,196	125,429	81,861
Users	36,659	39,269	49,897
PRBB Inside Portal			
Visits	28,685	56,031	37,658
Users	12,692	12,337	13,792
El·lipse			
Visits	33,895	0	0
Users	22,823	0	0
Subscribers	386	0	0

Resources:

Links to our social media at [our website](#)

Selection of press clippings in Annex 2

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PRBB Intervals: Continued professional training

	2019	2018
Courses	36	46
Places	451	597
Attendees	404	554

Resources:

[Intervals website](#)

[Annual Report PRBB Intervals 2019](#)



Other
milestones

Additional news from the departments at the PRBB Consortium

Provision of new recycling containers at the green points in the building.

The company Acellera leaves the PRBB and the space turns into the meeting room Rosalind Franklin.

New breastfeeding room, located in the lobby of the seminar rooms at the square.

The animal facility organized three courses to certify for the use of laboratory animals. Technicians and researchers of the centres at the PRBB participated.

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Implementation of the new tool DAYSK for all residents to book and manage reservations of meeting and seminar rooms.

Launch of the new software for visitors with new access cards.

Implementation of the new Access Control System for the whole building.

Visit of 12 international journalists who participated in a "Press Tour" organized by Barcelona Global.

Participation in ERION (Research Ethics and Integrity Officers Network) of the University in Bologna in representation of the PRBB and the Good Scientific Practices Committee.

Wikimarathon on women and science at the PRBB on the occasion of the International Day of Women and Girls in Science on February 11.

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Annex 1

PRBB CRG Conferences 2019

11/01/19 12:00	Tiziana Bonaldi	Protein modifications on and beyond histones, in health and disease: a proteomic perspective Nuclear Proteomics to Investigate Multi-Layered Gene Expression Regulation, Department of Experimental Oncology, Institute of Oncology. Milan, Italy
18/01/19 12:00	Alexander van Oudenaarden	Whole-organism clone-tracing using single-cell sequencing Quantitative Biology Research, Hubrecht Institute-KNAW (Royal Netherlands Academy of Arts and Sciences), University Medical Center Utrecht, Utrecht University. Utrecht, the Netherlands
28/01/19 12:00	Eleni Tzavara	Novel targets for mood disorders: exploring signaling pathways in mice and men Physiopathology of Psychiatric Diseases, Institut de Biologie Paris-Seine, Neuroscience-INSERM, CNRS, Sorbonne University UPMC. Paris, France
04/02/19 12:00	Fernando Martín-Belmonte	Epithelial tube formation and patterning Epithelial Polarity Group, Department of Development and Regeneration, Centro de Biología Molecular Severo Ochoa, UAM-CSIC. Madrid, Spain
11/02/19 12:00	Munehiro Asally	Electrical signalling in bacteria at the single-cell level Bio-Electrical Engineering Hub; Warwick Integrative Synthetic Biology Centre; School of Life Sciences, University of Warwick. Coventry, UK

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04/03/19 12:00	José Luis de la Pompa	Cellular interactions in ventricular wall development and cardiomyopathy Intercellular Signalling in Cardiovascular Development and Disease Laboratory, Centro Nacional de Investigaciones Cardiovasculares Carlos III. Madrid, Spain
15/03/19 12:00	José Luis Gómez-Skarmeta	Evolution of regulatory landscapes Functional Genomics Studies to Unravel Development, Evolution and Human Genetic Diseases, Centro Andaluz de Biología del Desarrollo. Sevilla, Spain
25/03/19 12:00	Arnold J. Berk	The YAP & TAZ of the Hippo pathway, a viral oncogene and cellular differentiation Molecular Biology Institute. Department of Microbiology, Immunology, and Molecular Genetics, University of California. Los Angeles, USA
05/04/19 12:00	Malin Parmar	Developing a stem cell based therapy for Parkinson's disease Developmental and Regenerative Neurobiology Group, Wallenberg Neuroscience Center, Lund University. Lund, Sweden
12/04/19 12:00	Alexander Gimelbrant	How to reactivate silenced alleles in genes with monoallelic expression Department of Genetics, Harvard Medical School. Department of Cancer Biology, Dana-Farber Cancer Institute. Boston, USA
15/04/19 12:00	Paola Costelli	Improving muscle wasting in cancer cachexia Department of Clinical and Biological Sciences, University of Turin, Turin, Italy

26/04/19 12:00	Valentina Boeva	<p>Computational strategies to analyze cancer ChIP-seq data: application to neuroblastoma</p> <p>Computational Epi- Genetics of Cancer, Institut Cochin, Inserm. Paris, France</p>
29/04/19 12:00	Fernando Casares	<p>Variation and control of organ size through the eyes of flies</p> <p>Centro Andaluz de Biología del Desarrollo, CSIC-Universidad Pablo de Olavide. Seville, Spain</p>
06/05/19 12:00	Josep Rizo-Rey	<p>Unraveling the molecular mechanisms that underlie the exquisite regulation of neurotransmitter release</p> <p>Departments of Biophysics, Biochemistry and Pharmacology, University of Texas Southwestern Medical Center. Dallas, USA</p>
10/05/19 12:00	Arkaitz Carracedo	<p>Disentangling the molecular drivers of prostate cancer progression</p> <p>IKERBASQUE, Basque Foundation for Science. CIC bioGUNE, University of the Basque Country, Bizkaia Technology Park. Bilbao, Spain</p>
13/05/19 12:00	Marko Kaksonen	<p>Imaging the molecular mechanisms of clathrin- and actin-mediated endocytosis</p> <p>Department of Biochemistry and NCCR Chemical Biology, University of Geneva. Geneva, Switzerland</p>
17/05/19 12:00	Martin Simard	<p>Function and regulation of the microRNA-mediated gene silencing pathway</p> <p>Laval University Cancer Research Center. Quebec, Canada</p>

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20/05/19 12:00	Mike Klymkowsky	Biofundamentals: a discussion about scientists teaching science Department of Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, USA
24/05/19 12:00	Moises Mallo	The changing lives of the progenitors that build the vertebrate body axis Patterning and Morphogenesis Group, Instituto Gulbenkian de Ciência. Oeiras, Portugal
27/05/19 12:00	Alan Leviton	Why are extremely preterm newborns at elevated risk of brain damage? Division of Epilepsy and Clinical Neurophysiology, Children's Hospital, Harvard Medical School. Boston, USA
31/05/19 12:00	Claudia Bagni	The dual life of the fragile X mental retardation protein Faculty of Biology and Medicine, University of Lausanne. Lausanne, Switzerland
03/06/19 12:00	Mary Munson	Activation of the exocyst tethering complex for SNARE complex regulation and membrane fusion Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School. Worcester, USA
17/06/19 12:00	Aylwin Scally	Structure and complexity in human and great ape evolution Human Evolutionary Genetics, Univ. of Cambridge. Cambridge, UK
21/06/19 12:00	Mathieu Lupien	Partitioning the genome to find a role to noncoding mutations Princess Margaret Cancer Centre, University Health Network. Toronto, Canada

28/06/19 12:00	Nancy J. Cox	<p>Using improved genetic prediction of gene expression in a biobank to explore pleiotropy</p> <p>Division of Genetics, Department of Medicine, Vanderbilt University Medical Center. Nashville, USA</p>
01/07/19 12:00	Gertrudis Perea	<p>Dechiperling the astrocyte role in cortical circuits</p> <p>Neuron-Glia Networks Lab, Cajal Institute, CSIC. Madrid, Spain</p>
05/07/19 12:00	David Garfield	<p>Characterising the functional consequences of non-coding mutations using single-cell ATAC-seq in non-human model systems</p> <p>Evolutionary Biology Lab, IRI for the Life Sciences, Humboldt University. Berlin, Germany</p>
08/07/19 12:00	Michel Bagnat	<p>Mechanical and nutritional roles of large lysosome in vertebrates</p> <p>Department of Cell Biology, Duke University Medical Center. Durham, USA</p>
12/07/19 12:00	Trisha Wittkopp	<p>Effects of mutation and selection on gene expression</p> <p>Genetic Basis of Phenotypic Evolution Research, College of Literature, Science, and the Arts, University of Michigan. Ann Arbor, USA</p>
15/07/19 12:00	Foteini Mourkioti	<p>Stem cell regulation in muscular dystrophy</p> <p>Musculoskeletal Regeneration Program, Penn Institute for Regenerative Medicine. Dept. of Orthopaedic Surgery-Dept. of Cell and Developmental Biology, Perelman School of Medicine, The University of Pennsylvania. Philadelphia, USA</p>

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19/07/19 12:00	Saitou Naruya	Evolution of modern humans with special reference to Yaponesian Population Genetics Laboratory, National Institute of Genetics. School of Life Science, Graduate University for Advanced Studies. Graduate School of Science, University of Tokyo. Mishima, Japan
26/07/19 12:00	Francesco Nicassio	Transcriptional dynamics by noncoding RNAs Noncoding Genome in Development and Disease, Center for Genomic Science of IIT@SEMM, Istituto Italiano di Tecnologia. Milan, Italy
09/09/19 12:00	Yasuyuki Ohkawa	Chromatin integration labeling technology for single cell multi-omics Division of Transcriptomics, Medical Institute of Bioregulation, Kyushu University. Kyushu, Japan
13/09/19 12:00	Jan-Philipp Junker	Lineage tracing on the organism-wide level Max Delbrück Center for Molecular Medicine, Berlin Institute for Medical Systems Biology. Berlin, Germany
16/09/19 12:00	Antonio del Sol	Single-cell systems biology approaches to stem cell research and regenerative medicine Computational Biology Unit, Luxembourg Centre for Systems Biomedicine, University of Luxembourg.
20/09/19 12:00	Salvador Aznar-Benitah	Stem cell function in homeostasis and aging: why time and what we eat matter Stem Cells and Cancer Group, Institute for Research in Biomedicine. Barcelona, Spain

30/09/19 12:00	Tatjana Sauka-Spengler	Reverse engineering of the global Neural Crest Gene Regulatory Network in vivo MRC Weatherall Institute of Molecular Medicine, University of Oxford. Oxford, UK
04/10/19 12:00	Joanna I. Loizou	Safeguarding the integrity of the human genome CeMM Research Center for Molecular Medicine. Vienna, Austria
07/10/19 12:00	Andreas Strasser	How does the tumor suppressor p53 protect us from cancer? The Walter and Eliza Hall Institute of Medical Research. Melbourne, Australia
11/10/19 12:00	Norman Davey	Understanding the functional role of the intrinsically disordered proteome Conway Institute of Biomolecular and Biomedical Research, University College Dublin.
14/10/19 12:00	Nicola J. Curtin	The development of Rucaparib (Rubraca): A story of the synergy between science and serendipity Northern Inst. for Cancer Research, Newcastle Univ. Newcastle upon Tyne, UK
17/10/19 13:00	Yoshihide Hayashizaki	Recent progress in omics science by The International FANTOM Consortium Preventive Medicine and Diagnosis Innovation Program, RIKEN. Wako, Japan
08/11/19 12:00	Carl-Philipp Heisenberg	Mechanosensation of tight junctions by ZO-1 phase separation and flow Morphogenesis in Development Group, Institute of Science and Technology. Klosterneuburg, Austria

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11/11/19 12:00	Mike Feolo	dbGaP: Data and data processing NIH, National Center for Biotechnology Information. Bethesda, USA
18/11/19 12:00	Naama Barkai	Maintaining proportions in early development Department of Molecular Genetics, Weizmann Institute of Science. Rehovot, Israel
22/11/19 12:00	Philippe Sanseau	Use of highly-dimensional genetics and genomics data for drug discovery Computational Biology, Functional Genomics, GlaxoSmithKline. Stevenage, United Kingdom
25/11/19 12:00	Ashby Morrison	Epigenetic regulation of carcinogen susceptibility Department of Biology, Stanford University. Stanford, USA
29/11/19 12:00	Inbal Goshen	Activity-dependent and projection-specific effects of astrocytes on plasticity and memory Center for Brain Sciences, The Hebrew University. Jerusalem, Israel
13/12/19 12:00	Satyajit Mayor	The skin of a living cell behaves as an active actin-membrane composite: mechanisms, functions and consequences National Centre for Biological Sciences, Tata Institute for Fundamental Research. Bangalore, India

Annex 2

Recull de premsa (Press clippings)

"Próximo reto, capital científica" el PRBB a la Vanguardia

Publicat el 30 de Març de 2019

"La UPF projecta tres edificis per fer recerca a l'antic Mercat del Peix" el PRBB a Ara

Publicat el 30 de Març de 2019

"Un estudio sobre el impacto de los plásticos se lleva el Premio PRBB al mejor trabajo de investigación de bachillerato" el PRBB en El Economista

Publicat el 07 de Maig de 2019

"Metro Ciutadella/Vila Olímpica inaugura intervenció mural Leonardo Da Vinci" a La Vanguardia

Publicat el 24 de Juliol de 2019

"La estación de metro Ciutadella/Vila Olímpica acoge la intervenció mural 'Leonardo da Vinci al PRBB'" a CatalunyaPress

Publicat el 25 de Juliol de 2019

"Leonardo da Vinci, de macro a micro". Notícia a la web de Barcelona

Publicat el 06 de Agost de 2019

"Forschung in Katalonien Barcelona als Wissenschaftsstandort attraktiv". Beitrag über den PRBB im Deutschlandfunk

Publicat el 04 de Setembre de 2019

"4 propuestas familiares para disfrutar como animales". El PRBB Open Day en El Periódico

Publicat el 04 de Octubre de 2019

"Jordi Camí, presidente del nuevo comité para la integridad de la investigación catalana", noticia en La Vanguardia

Publicat el 19 de Novembre de 2019

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