Performance Report 2022

Barcelona Biomedical Research Park Consortium

Barcelona, May 2023

prbb.org
The 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.

With the intention of providing the best possible environment for biomedical research of excellence, we address the needs and challenges of the centres. The PRBB has been committed to its scientific community since 2006, when it was inaugurated by its promoters the Generalitat de Catalunya, Barcelona City Council and Pompeu Fabra University (UPF).

The independent research centres located at the PRBB form an inter-institutional coalition that is interconnected via shared spaces within a single building. They are dedicated to research in the field of life sciences, human health and biomedicine. Taken together, the joint budget for the organisations tops 120 million euros per year.

Three PRBB centres (CRG, ISGlobal and MELIS-UPF) are members of SOMMa, the Alliance of Severo Ochoa Centres and Maria de Maeztu Units for promoting excellence in research and improving its social impact at both the national and international level.
Present centres

Hospital del Mar Medical Research Institute (IMIM)
Departament of Medicine and Life Sciences at Pompeu Fabra University (MELIS-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)
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## Scientific publications

<table>
<thead>
<tr>
<th></th>
<th>2022</th>
<th>2021*</th>
<th>2020*</th>
<th>2019*</th>
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* There are fluctuations during the year in the total number of publications that are in press at the close of the report, for this reason the numbers presented do not coincide with the reports of 2021, 2020 and 2019.
Throughout 2022, 43 scientific sessions have been held that were co-organized by the PRBB. 33 PRBB CRG Conferences with speakers from 14 different countries and 10 virtual PRBB Neuroscience Seminars with speakers from 7 different countries.

Scientific conferences

<table>
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<tr>
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Good Scientific Practice

The Good Scientific Practice Working Group (GSP) of the Park centres is coordinated by the PRBB. In 2022, several actions have been carried out:

Update of the code of good practice: pending signature by the management of the centers, pending the publication of the new edition of the European Reference Code (ALLEA)

Participation in the World Conference on Research Integrity (WCRI 2022) with the presentation of two virtual posters, which took place in May-June in Cape Town, South Africa.

Round table on mental health in academia, with speakers from different centers and different moments of the research career, presenting activities/resources on this topic. About 80 people were registered at the event that took place in the auditorium (15/06).

Talk on integrity in scientific publications, by Iratxe Puebla (ASAPbio). (7/09).

Beyond the work of the intercentre group, the Consortium has offered training workshops on good scientific practices for doctoral students from research centers in Catalonia (CREAF, ICN2, CIMNE, BIST, ICFO). An article on training in good scientific practice has also been published, based on the classes taught from UPF to doctoral students at the PRBB, in the journal *Frontiers Research Metrics & Analytics*. In addition, Maruxa Martínez was elected a member of the core group of ERION (European Research Integrity Officers Network) in September 2022.
Upgrades for users of the PRBB animal facility

Residents of the Park and external users of the animal facility can now access documentation, manuals, information on access procedures and courses, as well as service application forms at the new section “Animal facility” at the PRBB Portal.

CEEA-PRBB Competent Entity

Since the end of 2022, the PRBB Animal Experimentation Ethics Committee (CEEA-PRBB) has been accredited by the Catalan government as a competent entity (Órgano habilitado, OH). This has two main advantages for the users in the majority of projects, which would not require express authorization by the Catalan government:

The waiting time has been reduced significantly, because the CEEA-PRBB can now approve procedures directly.

The process is now free of charge for the users in most of the cases, because the fees to the Catalan government for the approval process do not apply anymore to the majority of the procedures.
Genetically Modified Organisms (GMOs)

Recently, the PRBB animal facility has been authorized for the use of Genetically Modified Organisms (GMOs) Type 2 (Registration number: A/ES/22/I-21). Nevertheless, users still require an authorization from the Biosafety Committee of the PRBB (CBS-PRBB) for procedures involving these animals.

These important upgrades have been possible thanks to the work, dedication and cooperation of the CBS-PRBB, the CEEA-PRBB, the animal facility, the infrastructure area, the user committee of the animal facility and the communication area of the park.

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The PRBB's informative website, El·lipse, is very active, with an average of about 12-15 monthly publications. In 2022 it had more than 400,000 visits.

Social networks continue to grow on a regular basis, especially LinkedIn and Instagram, although Twitter has still the most followers.

More than 40,000 people follow our activities on social networks.
<table>
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<tr>
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<th>2022</th>
<th>%</th>
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<th>2020</th>
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Promotional campaign

In collaboration with the agency Scienseed, an Ellipse promotion campaign has been carried out with five special newsletters via Mailchimp and has been accompanied by actions in the social media:

- Diversity, Equality and Inclusion
  #PRBBdiversity

- Open and responsible research
  #prbbRRI

- Sustainability in science
  #PRBBsustainability

- Innovation and technology transfer
  #PRBBInnovation

- Mental Wellbeing
  #PRBBwellbeing
The PRBB Award

This academic year 2022-2023 the PRBB Award reaches its 18th edition with 187 works presented.

On April 27th, the defence and awards ceremony of the PRBB Award for the best research projects in health and life sciences took place. This award is announced annually by the PRBB and UPF.

Over the years, more than 2,700 second-year Baccalaureate students from all over Catalonia have participated.
Podcast

The PRBB Podcast is consolidated with the premiere of a new program in Spanish.

In July, "Absolutos y Relativos", the second program of Podcast PRBB, was premiered. This time in Spanish and in interview format. Luca Tancredi Barone, conductor of the new program, introduces us, with a fresh and close look, to 6 people who with their concerns and careers are dedicated to doing science with passion.

In October, the second season of "La Mare de la Ciència", our podcast in Catalan, was released.
Listen to it at: Spreaker, Spotify, Apple Podcast, Google Podcast, Amazon Music, iVoox
The PRBB Openday

#OpenPRBB, opens its doors again to the citizens

After two years organizing OpenPRBB virtually, we reopened our doors to the citizens. With a wide variety of activities scheduled, on Saturday, October 8, 2022, we were visited by about 1,200 people.

OpenPRBB is the great science festival of all those who work at the PRBB; It is the day where more than 200 volunteers show what we do and how we do it by opening laboratories, sharing knowledge and bringing science closer to citizens.
The 1,673 residents (61% female sex and 39% male) of the research centres, include 440 foreigners (29%) from 61 different countries.

The Park has 752 researchers: 285 PhD students, 274 postdocs and 193 IPs. The support staff is grouped into 514 technicians, 266 administrative staff and 141 from external companies.

More information: Demography of the PRBB 2022 (PDF in Catalan)
PRBB Intervals Programme

Transition, disruption and readjustment

In 2022 as the world gradually transitioned to post-pandemic mode, so the Intervals programme shifted from offering all courses online in the spring to a predominantly in-person offering at the year end.

We were delighted to welcome back our trainers for the creative in-person courses: Dance your science, Science of the unexpected (improvisation skills), Elevator pitch and Técnicas actorales, all of which work best when people are in the same room together. We also saw the return of courses where relationship building and group trust are especially important, as in Train the trainer, Difficult conversations and Effective team playing. We offered new courses including self-leadership for junior staff - Self-leadership for daily challenges in science, tips on how to cope with the life at the coal-face as a Principal Investigator – Navigating the research environment, and a course in the use of poetry to stimulate creative responses to scientific challenges – Rhyme your research. We were also pleased to work with colleagues in all PRBB centres to provide two workshops as part of the Career week: Develop your professional self in science and Create your digital strategy.

Data

<table>
<thead>
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<th>Number of total courses</th>
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<td>Number of online courses</td>
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<td>Number of in-person courses</td>
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<td>Number of hybrid courses</td>
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<td>Number of places</td>
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<td>Number of people registered</td>
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<td>Number of attendees</td>
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PRBB Intervals Report 2022 (PDF)
The PRBB Equality, Diversity and Inclusion Committee (EDI), made up of members from all the centres, is coordinated by the Consortium. In 2022, several actions have been carried out:

Wiki-Marathon 11F for Women's and Girls' Day in Science (online). For the first time, 15 research centers from all over Catalonia have been brought together in this initiative: 40 participants (100 registered).

Round table in English on maternity in science for 11F in collaboration with IDIBAPS (online). Moderated by Isabel Torres, "Mothers in science" association, Gemma Moncunill (ISGlobal), Giuliana Nagri (IMIM), José Luis Maestro (IBE), Sergi Aranda (CRG) and Itziar Salaverria (IDIBAPS) - 100 participants (150 registered). Video with 263 views.

Development of a guide for the creation of an EDI committee. Its creation has been disseminated through SOMMA and CERCA among others.

Collaboration with the "LGTBIQA+ @PRBB" group: guided tour for residents to the Museu Blau exhibition "LGTBi in nature" (19 June) and talk on the importance of diversity in science (27 June)

Debate on gender and racial bias in technology in collaboration with the BSC and the DTIC-UPF (30 November). 100 people attended (143 registered). Video with 160 views.
Inter-centre Commission for the Prevention of Occupational Hazards (CIPRL-PRBB)

The CIPRL was established in 2008 with the aim of establishing the means of cooperation and collaboration necessary for the integration of occupational risk prevention in the PRBB building and is composed of a representative from each of the centres that make up the PRBB.

Document on Safety and risks in the use of liquid nitrogen and cryogenic systems

In collaboration with all the centres, a PNT has been drafted with the aim of raising awareness among the users of the different PRBB Institutions of the possible risks they may have to face, as a result of the use of liquid nitrogen and/or cryogenic systems, in the course of their activities at the PRBB. At the same time, it is intended to provide these users with the necessary tools and codes of good practice so that the development of their work is carried out in safe conditions, in order to minimize the risk of suffering accidents or having a negative impact on their health.

Procedure campaign for the transfer of biological samples

In collaboration with the Communication and Institutional Relations Area of the PRBB Consortium, a reminder campaign was carried out on residents regarding the basic rules for the transfer of biological samples, with the aim of continuing to guarantee the safety of the personnel involved in the transfer and minimising the risk that may be posed to other people or the environment in the event of an accident. The campaign was carried out by restyling the document, without modifying its content, and disseminating it in the different channels of the Park.

Personal Protective Equipment Campaign (PPE's)

In collaboration with the Communication and Institutional Relations Area of the PRBB Consortium, a campaign was carried out on the use and maintenance of PPE's. PREVI, the character who regularly accompanies prevention messages, recalled the types of PPE that must be used in laboratories and that are an essential part of reducing occupational risks. For this reason, the campaign focused on remembering where and when to protect your hands, body, face, eyes, ears and respiratory tract.
The PRBB community is young, dynamic and with great initiatives. In 2022, the Incubakers solidarity breakfasts were recovered and face-to-face rehearsals of regular activities such as yoga, choir and orchestra were resumed. Likewise, new Tango and Bollywood workshops began and the #PRBBlive Musical Lunch Breaks were premiered. A cycle of 4 concerts with musical groups composed of at least one resident member of the Park, with a duration of 45 minutes, which enlivened the middays in the interior square of the PRBB.
## Data on consumptions and maintenance

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<td>Natural Gas</td>
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<td>Liquid Nitrogen</td>
<td><strong>316,007</strong> litres</td>
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<td>CO²</td>
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<td><strong>33,540</strong></td>
<td><strong>20,355</strong></td>
<td><strong>24,508</strong></td>
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Installation of video surveillance cameras in the bicycle parking lot

Due to various incidents about bicycle thefts in the outdoor bicycle parking lot, at the end of 2021 two video surveillance cameras were installed on the façade of the building to control this area. From that moment on, the images of the area are available to users in case of incident and under judicial or police request.

New conservation and freezing chambers

In 2022, a highly complex project began such as the renovation of the cold rooms, which consisted of a comprehensive reform of the entire refrigeration installation, replacing both the cold production elements and the entire circuit and terminal elements of the 17 chambers in order to gain reliability, energy efficiency, sustainability and ease of maintenance.

ICT reorganization

In 2022, the PRBB Consortium reorganized its ICT Service and subcontracted a 24/7 ICT support, which has allowed us to offer better attention to our users and update ICT tools by putting the needs of users at the center of decisions. Thanks to this relationship, we are in a good position to face the new challenges that will come.
Human resources

Diagnosis of internal equity and external competitiveness

An organizational analysis was carried out in order to obtain a diagnosis of internal equity and external competitiveness and positively impact on the ability to attract and retain talent.

Selection processes and stabilization processes for the reduction of temporality

During 2022, a total of 7 selection processes were carried out, 2 of which have been protected by stabilization processes due to the reduction of structural temporality in public administrations.

Working day registration application

During the last quarter of 2022, tests were carried out for the definitive implementation, on January 1, 2023, of a digital application that would unify the registration of the day and events that may affect the working day.

Remote teleworking

The provision of services in teleworking mode has been implemented for the staff of the PRBB Consortium with a maximum of two days per week.
Risk prevention

Study of psychosocial risk assessment and anti-harassment training

During 2022, the psychosocial risk assessment was carried out, a tool that has allowed us to make a psychosocial diagnosis of the CPRBB and apply measures to promote the well-being of workers at work. On the other hand, a training session has been held for the CPRBB staff in order to publicize the content of the Protocol for prevention and action against situations of harassment and discrimination in the work prepared in 2021.
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