Barcelona Science Park, the dynamic ecosystem for research and innovation

www.pcb.ub.edu
The Barcelona Science Park (PCB) drives research, knowledge transfer and innovation through smart management of spaces, services and relationships. Our aim is to dynamize the PCB Community —more than 2,700 researchers, entrepreneurs and business leaders, especially in the life sciences— to turn ideas into innovations.

Created in 1997 by the University of Barcelona, the PCB has more than 30,000 square meters of offices and laboratories, plus a wide range of scientific and technological services designed especially to facilitate R&D in the health and life sciences. The PCB’s offering, flexible and modular to meet clients’ needs, allows us to accompany businesses as they grow and develop. We have a diversified catalog of spaces that range from co-working rooms (offices) and shared laboratories, perfect for entrepreneurs and companies just getting started, to R&D laboratories that can adapt to the needs of large pharmaceutical or medical technology companies.

Our scientific services also adapt to demand, ranging from self-service access to basic technology through custom projects conducted by the PCB platforms, research centers and UB services at the Park.

This setting also features an ideal space for specialized scientific and non-scientific services companies —bioinformatics and information technology, patents and intellectual property management, business development, investment funds, training, etc. — and companies from a variety of sectors, including chemicals, cosmetics and the environment.

The PCB offers an environment that promotes interaction and collaboration among the top-notch research bodies and companies it houses. To dynamize the PCB Community and connect it with the national and international innovation ecosystem, the Park organizes an extensive program of activities (seminars, conferences, networking sessions, informal meetings, etc.) and has created common spaces in all of its buildings to help generate synergies, boost cooperation and identify business opportunities.
The Barcelona Science Park brings together more than 60 companies (on-site and associated), large research centers, 13 units and scientific services of the University of Barcelona and fifteen non-profit organizations: a dynamic, innovative community of around 100 organizations and 2,700 professionals.

**Hosted entities**

**Companies**

- PCB Community

**R&D centres**

- cnag
- GRR
- IRB
- IBEC
- ibmb
- CSIC
- ICCUB

**Non-profit organizations**

- ACER
- biocat
- CambiadoresBiocat & Healthtech
- CIBER-Health
- CIRIT
- DTI
- Fundació ITABARCELONA
- Fundació GAEM
- ITABARCELONA
- LEBIT

**University of Barcelona groups, units and services**

- Microbial Biotechnology and host-pathogen interaction
- Macrophage Biology Group
- Patents Center
- Research Group on Marine Geosciences
- Translational Immunology Group

**Associated entities**

- anan Biosciences
- BBG
- BBVA
- CIBER
- Finant
- Funseam
- Pharmaphenix
- Reciphar
- Uquifa
The Barcelona Science Park has nearly 60,000 square meters of floor space, divided into laboratories (21,727 sqm), offices (9,121 sqm), scientific services (6,457 sqm) and general services and infrastructure (22,418 sqm).

The spaces on offer, flexible and modular, adapt to the needs of a wide variety of institutions and businesses and their different stages of development. Entrepreneurs and spin-offs will find the ideal space to kick off their activities in the shared laboratories.

The offices—located in Torres R+D+I—are equipped with voice and data network, climate control and furniture and can be fit to the size the company needs, from 10 sqm to 300 sqm per floor. The Clúster I, Clúster II and Hèlix buildings are home to the laboratories, in modules of between 50 sqm and 250 sqm.

All of them are ready to start working immediately, and include all the basic facilities (furniture, technical gases, fume hood, etc). Each laboratory has complementary spaces that can be used as offices for researchers or for culturing an special technology.

By renting laboratories and offices at the PCB, users get access to a series of exclusive services for on-site clients.

The Park also has 17 meeting rooms of various sizes and three events halls: Auditori Antoni Caparrós, Sala Dolors Aleu and Aula Fèlix Serratosa. Plus, we offer open spaces for the PCB Community, like the Park Garden and rest and meeting areas. Complementary services include Restaurant Fifteen and a public-access underground parking garage with more than 500 spaces.

Flexible and modular: The spaces on offer adapt to the needs of a wide variety of institutions and business.

**Spaces**

**Meeting rooms**
Throughout the Park, we have 17 meeting rooms of varying sizes (between 4 and 250 sqm). On-site clients can use both these rooms and the Auditori Antoni Caparrós, Sala Dolors Aleu and Aula Fèlix Serratosa halls with advantageous conditions.

**Park Garden**
A space designed for the PCB Community to meet and spend leisure time. Located in the middle of R+D+I Towers, the Garden was built to meet ecological and sustainable management criteria.

**Laboratories**
Facilities ready to run experiments in chemistry and biology, with power, climate control, technical spaces, laboratory furniture and voice and data network. The PCB offers shared and exclusive laboratories, as well as unfurnished laboratory spaces that can be fitted out to the specific requirements of any organization.

**Park Garden**
Located in the basement of the service building, with capacity for 244 guests, has both buffet and a la carte service. There is also a space set aside, with table service, for more formal lunches. The PCB has a 1st restaurant, with room for 50 diners, on the terrace of the Clúster I Building.

**Parking**
Vehicles can enter and exit the PCB parking garage from Av. Gregorio Marañón, taking advantage of one of the more than 500 spaces on two floors, open to the public 24 hours a day 365 days a year.

**Auditori Antoni Caparrós**
Located on the ground floor of Torre D, the auditorium has room for 140 people. It has Wi-Fi and audiovisual support equipment, as well as a simultaneous interpretation cabin. The hall is named after the University of Barcelona Rector who promoted the creation of the PCB.

**Restaurant Fifteen**
Located in the basement of the service building, with capacity for 244 guests, has both buffet and a la carte service. There is also a space set aside, with table service, for more formal lunches. The PCB has a 1st restaurant, with room for 50 diners, on the terrace of the Clúster I Building.

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Supported by:
European Union
European Regional Development Fund
"A way to make Europe"
One of the points that sets the Barcelona Science Park apart from other facilities is its wide range of scientific and technological services, geared towards both on-site clients and external research groups from here and abroad. This offering is complemented with a series of professional and general services, exclusively for on-site companies and institutions, and is a program to dynamize the PCB Community that seeks to boost interaction among members and the innovation ecosystem.

**General services**
- Reception
- Courier and post
- Voice and data network
- 24-hour security
- Cleaning
- Maintenance and repairs
- Rental and laundry of laboratory clothes
- Changing rooms
- Supply and management of technical gases
- Reception and delivery of goods
- Waste management
- Workplace health and safety

**Professional services**

**Construction and remodeling**

Architectural design and project, site and construction management for any work required to adapt the PCB spaces into the client’s needs.

**Press and communication office**

Guidance in communication and media campaigns for organizations at the Park.

**Dynamization activities**

The PCB promotes a program of 20-25 activities per year — networking events, conferences, panel discussions, training workshops, delegations to fairs, leisure activities, etc. — that aim to promote interaction and collaboration among members of the PCB Community and key stakeholders in the national and international innovation ecosystem. Plus, the Park hosts around 300 events each year (seminars, conferences, congresses, courses, etc.) held by on-site and external organizations, most of which are open to the Community.

**Scientific and technological services**

**Exclusively for on-site companies and organizations**

On-site clients of the PCB are part of a pass system, that gives them the following benefits: self-services access and set rates by volume of use, to our package of Core Scientific Services (SCS), listed below. The pass system also gives access to the Radioactivity Facility, Drosophila service, Shared Chemistry Room and Special Reaction Service (open to external clients).

**Core Scientific Services**
- Cell culture rooms
- High-speed centrifuges and ultracentrifuges
- Spectroscopy equipment
- Histology equipment
- Microscopes
- Freezers
- Protein purification service
- Storage in liquid nitrogen
- Dark rooms
- Climate chamber set at 37º C
- Cold storage rooms
- Material cleaning and purification service

For the environmental management system of PCB’s buildings and facilities.

**Scientific services on offer from research centers at the PCB**

**University of Barcelona Science and Technology Centers (CCIT-UB)**

The CCIT-UB provide analysis services, develop methodology and provide technological guidance in chemistry, materials and biosciences. At the PCB, they have the following platforms:
- Genomics
- Bioinformatics
- Nuclear Magnetic Resonance
- Polymorphism and Calorimetry
- Cytometry
- Genomics
- Analysis of Molecular Interactions
- Electron Cryo-Microscopy
- Separative Techniques
- 3D printing system.
- Electronic instrumentation laboratory.
- PCB assembly laboratory.
- Development of electronic instrumentation.
- Computing.

**Centre Nacional d’Anàlisi Genòmica (CNAG)**

The CNAG offers a wide range of applications, including full de novo genome sequencing, full genome re-sequencing, re-sequencing of specific regions, mRNA or microRNA sequencing (RNAseq), locating interactions with DNA and RNA (ChIPseq), epigenome sequencing and validating genomic variants.

**Institute for Research in Biomedicine (IRB Barcelona)**

The biomedical research carried out by groups at IRB Barcelona is supported by a broad network of scientific services that provide advanced technology and platforms for research, including:
- Biostatistics/Bioinformatics
- Functional Genomics
- Histology Service
- Protein Expression
- Mass Spectrometry
- Mutant Mice
- Drosophila Injection Service

**Institute for Bioengineering of Catalonia (IBEC)**

Through its Nanotechnology Platform, the IBEC provides nanoscience and nanotechnology services for industrial and academic researchers. It has a class-10,000 cleanroom with state-of-the-art equipment and led by highly specialized personnel. The services and facilities available are:
- Protein Purification Service
- Animal Room for Antibody Production
- X-ray Crystallography Platform
- Advanced Fluorescence Microscopy

**Institute of Cosmos Sciences of the University of Barcelona (ICCUB)**

The ICCUB Technology Unit provides services to public institutions and industry. The most outstanding services and equipment that it offers are:
- 3D printing system.
- Electronic instrumentation laboratory.
- PCB assembly laboratory.
- Development of electronic instrumentation.
- Computing.
- Electromagnetic compatibility pre-certification.
- Climate chamber: tests of different conditions and temperature cycles.
- Drying system and vacuum packaging of electronic systems.

**Proteomics Platform**

This platform provides a wide range of services related to identifying proteins and analyzing their differential expression, using techniques like mass spectrometry and electrophoresis.

**Analysis and Chemistry Platform**

This unit offers technology and expertise to carry out chemical synthesis of individual compounds or libraries of different compounds, and has the equipment and experience to carry out chromatographic analyses and separate prepare natural extracts.

**Toxicology Unit**

The UTOX-PCB offers in vivo and in vitro toxicology services, ecotoxicology services and expert reports and analytical assessments. The unit is GLP certified to conduct toxicology and ecotoxicology studies on drugs (for human and animal use), healthcare products and cosmetics.

**Institute of Biomedical Research (IBMB-CSIC)**

The IBMB makes its services and facilities available to academic and industry researchers. The facilities are fully equipped with state-of-the-art equipment and led by highly specialized personnel. The services and facilities available are:
- Animal Facility (PCB-PRBB Animal Facility Alliance)
- Protein Expression
- Mass Spectrometry
- Proteomics Platform
- Bioinformatics
- Histology Service
- Protein Expression
- Mass Spectrometry
- Mutant Mice
- Drosophila Injection Service

**Animal Facility (PCB-PRBB Animal Facility Alliance)**

The PCB and Barcelona Biomedical Research Park (PRBB) have created the functional unit PCB-PRBB Animal Facility Alliance, pooling the resources of the animal facilities at these two institutions. The PCB Animal Facility offers services in three main areas: managing and maintaining existing animal models, contract research projects (CRO), and designing and generating new experimental models and paradigms.

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Barcelona, first European Capital of Innovation