



Parc Científic de Barcelona  
UNIVERSITAT DE BARCELONA



where  
science  
becomes  
**business**

[www.pcb.ub.edu](http://www.pcb.ub.edu)

ENG

# A cluster of excellence dedicated to research and knowledge transfer

The companies based at the Barcelona Science Park (PCB) enjoy an ideal setting dedicated to the generation, transfer and acquisition of value in various areas of knowledge, mainly in the life sciences. Together with the R&D centres, they make up a powerful cluster that facilitates the creation and transfer of knowledge.

The PCB community is composed of more than 3,000 researchers, entrepreneurs and professionals from the health sector; pharma, biotech, medical devices, cosmetic and nutrition. More than 100 entities are established at the PCB comprising key public research centres, large multinational companies, small and medium-sized companies, start-ups, units of the University of Barcelona and other non-profit organisations.

## Research centres

**cnag**

centre nacional d'anàlisi genòmica  
centro nacional de análisis genómico



**gRR**

Grup de Recerca de Reumatologia  
Vall d'Hebron Institut de Recerca



INSTITUTE FOR RESEARCH IN BIOMEDICINE



Institute for Bioengineering of Catalonia

**ibmb**

Institut de Biologia Molecular de Barcelona



**CSIC**



**ICCUB**

## Non-profit organizations

**ACER<sup>13</sup>**



europaG<sup>14</sup> IEB  
Institut d'Enginyeria de Barcelona



## University of Barcelona groups, units and services

**CCiT<sup>15</sup>**  
Centres Científics i Tecnològics  
UNIVERSITAT DE BARCELONA



Bosch i Gimpera  
UNIVERSITAT DE BARCELONA

- > Biomolecular NMR
- > Metabolic Dynamics in Cancer
- > Macrophage Biology Group
- > Patents Center
- > Translational Immunology Group

# Companies

## Biotechnology - Therapeutics and Diagnostics



Associated

## Medical Technology



Associated

## Pharma



## Cosmetics



## Food



## Digital Health



Associated

## Biotechnology - R&D Services



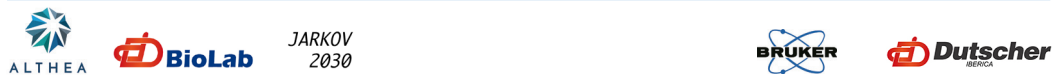
Associated

## Professional Services and Consulting



Associated

## Supplier & Engineering



Associated

## Others



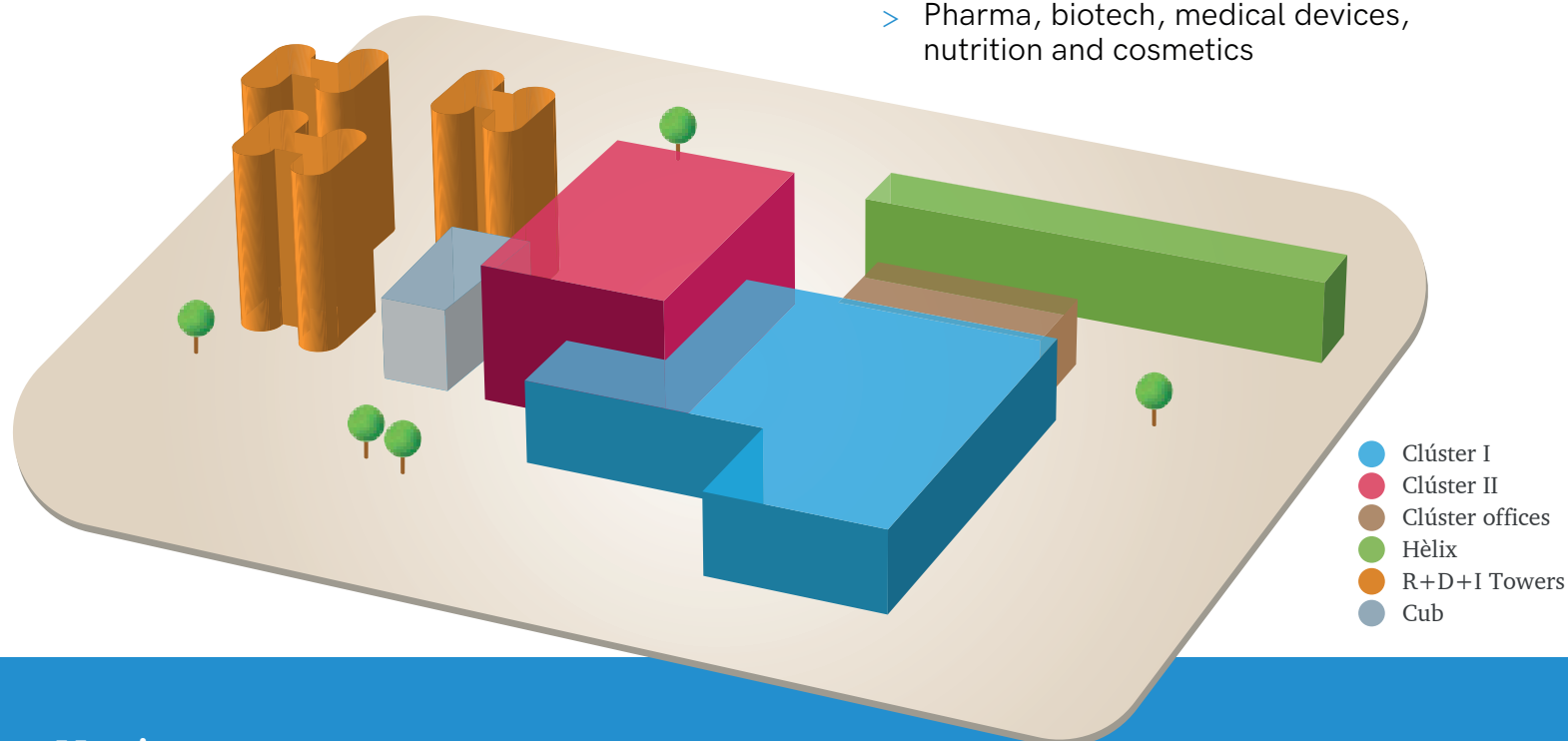


## The PCB

- > 22.000 m<sup>2</sup> of laboratories
- > 10.000 m<sup>2</sup> of office space
- > 5.000 m<sup>2</sup> dedicated to scientific services
- > Management of general services
- > Strategic location in the city of Barcelona

## The PCB Community

- > More than 100 organisations
- > 6 research centres
- > More than 90 companies
- > More than 20 foundations, associations and other organisations
- > More than 3,000 professionals
- > Pharma, biotech, medical devices, nutrition and cosmetics



## Meeting rooms



Meetings rooms  
for 4 to 40 people



Quick meeting  
rooms



Antoni Caparrós  
Auditorium  
140 people



Dolors Aleu Hall  
120 people



Fèlix Serratosa room  
70 persones



- > Equipped with audiovisual equipment: Plasma screen or projector and computer
- > Audiovisual technical support
- > Online booking
- > Catering service management

## Offices and laboratories for rent

- > Modular and flexible spaces for start-ups, companies, research centres and other organisations



Furnished offices  
from 10 m<sup>2</sup>



Laboratories equipped for biology,  
chemistry and medical devices  
from 50 m<sup>2</sup>



## Catering



2 restaurants



Accomodate up to 300 diners  
at the same time



Vending machines



6 eating areas to enjoy  
your own food

## Parking

- > Monthly subsidised passes for PCB users
- > Recharging for 11 electric cars and 2 electric motorcycles
- > 24/7 security monitoring



512 parking spaces



14 adapted parking spaces



54 motorcycle parking spaces



21 bicycle parking spaces

## The Shop

- > Consumables for laboratory and office

## Services

- > Reception areas
- > 24-hour security
- > Cleaning
- > Voice and data network
- > Maintenance and repair
- > Courier and post service
- > Hire and cleaning of laboratory clothing
- > Supply and management of technical gasses
- > Reception and distribution of stock
- > Waste disposal
- > Occupational health and safety
- > Works and improvements
- > Communication

## PCB community activities

With the aim of promoting interaction and collaboration between members of the community, the PCB regularly organises a range of activities, including: **'Train and connect'** (conferences, workshops, round tables, training workshops, etc.), **'Evenings at the PCB'** (leisure activities), **'Cocktail Connection'** (networking) and the **Ambassadors Programme**.

- > 20 - 30 activities organised by the PCB every year
- > 350 - 400 activities held at the PCB every year



## Scientific and technological services

### Common scientific services

Self-service scientific laboratories, equipment and infrastructure

- > Cell culture rooms
- > Stirrers-incubators at different temperatures
- > Environmental chamber with stirring (37°C)
- > Table-top centrifuges, high speed centrifuges and ultracentrifuges
- > Spectroscopy equipment
- > Histology equipment
- > Microscopes
- > Cold-storage: ultra-low freezers, liquid nitrogen and cold rooms
- > Equipped darkrooms for film development
- > General equipment rooms: balances, sonicators, autoclaves, concentrators, etc.
- > Protein purification service
- > Cleaning and sterilisation of laboratory material
- > **Radioactive facility**
- > **Drosophila**
- > **Chemistry room**
- > **Special reactions service**

### Technological platforms

#### Animal facility

- > Management of your animal care and accommodation centres to offer a benchmark research platform, with live models, in three extensive lines: management and maintenance of animal models, contract research projects and design and generation of new models and experimental paradigms. Over 3,000 m<sup>2</sup> located in the PCB: 2 SPF animal houses for rodents (mouse, rat, hamster and guinea pig), 1 animal house for aquatic models (*Xenopus laevis*).

#### Proteomic Platform

- > Consultation and technology to carry out studies ranging from the identification and characterisation of small- or large-scale protein post-translational modifications, to the quantitative analysis of their level of expression. The platform also offers services for the quantification of metabolites, ADME and PK using mass spectrometry (MS/MS).

#### Toxicology platform

- > A range of experimental services, including in vivo and in vitro toxicology, ecotoxicology, ADME/pharmacokinetics and microbiology, analytical measurements, expert and safety reports, and consultation for research, development and risk assessment for different products and sectors. GLP certification for performing toxicology and ecotoxicology studies with medicines (human and veterinary use), as well as studies of medical devices and personal hygiene and cosmetic products.

## Scientific and technological offer of other entities located in the PCB

### CNAG-CRG (National Genome Analysis Centre)

- > Identification of germline and somatic mutations (WGS, WES or Target-Seq)
- > De novo genome and transcriptome assembly (Long-read Sequencing)
- > Analysis of expression profiles (RNA-Seq and Small RNA-Seq)
- > Epigenome analysis (WGBS, WGOxBS or Target Methyl-Seq)
- > 3D genome structure analysis (HiC)
- > Individual cell analysis (scRNA-Seq and scATAC-Seq)
- > Metagenomic studies (WGS, 16S, 18S)
- > DNA-protein interaction studies (ChIP-Seq)

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

- > Advanced digital microscopy
- > Biostatistics / Bioinformatics
- > Functional genomics
- > Histopathology
- > Protein expression
- > Mass spectrometry and proteomics
- > Mouse Mutant
- > Drosophila injection service

### IBEC (Institute for Bioengineering of Catalonia)

- > UV, laser and e-beam lithography for the generation of micro and nano structures
- > Chrome mask manufacturing service
- > 3D printing of sub-millimetre structures
- > Raw layer storage service
- > Morphological and topographic analyses by optical microscopy and profilometry
- > Characterisation of wettability of surfaces using contact angle measurements
- > Characterisation of samples by scanning electron microscopy (SEM) (including preparation of samples)
- > Characterisation of samples by confocal microscopy

### IBMB-CSIC (Molecular Biology Institute of Barcelona)

- > Protein purification service
- > X-ray crystallography platform
- > Animal House for Antibody Production
- > Advanced fluorescence microscopy

### CCiTUB (UB scientific and technological centres)

- > Genomics
- > Bioinformatics
- > Magnetic resonance imaging
- > Polymorphism and calorimetry
- > Cytometry
- > Granulometry
- > Molecular interaction analysis
- > Cryo-electron microscopy
- > Separation techniques

### ICCUB (Institute of Cosmos Sciences)

- > 3D printing system
- > Laboratories with electronic instrumentation
- > PCB set-up laboratories
- > Development of electronic instrumentation
- > Pre-certification of electromagnetic compatibility
- > Environmental chamber: temperature trials and cycles
- > Drying and vacuum packing service for electronic systems
- > IT



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