Scientific Services
Barcelona Science Park's Core Scientific Services provide its users with laboratories, equipment and scientific infrastructure to be used on a self-service basis.

These laboratories are managed by PCB staff who support the users and ensure correct operation and suitability of the service, for the research requirements of both companies and research centres. The users—researchers from the entities headquartered in the Park—employ these scientific infrastructures for independent work and have access to all the equipment owned by the PCB.

> Equipment is reserved electronically in order to facilitate its use and optimise schedules.

The services are spread out across different rooms in the Cluster and Helix buildings. The distribution of these services has been designed to minimise the distance between users' own laboratories and PCB facilities. The SCC-PCB are constantly being updated and their equipment renewed, with new equipment added to guarantee the maximum degree of research support.

> 24/7, 365 days a year
> 1,200m2 of self-service laboratories
> 1,000 users
> Laboratories in the Cluster I, Cluster II and Helix buildings
> Specific maintenance in the cell culture area (clean room)
> Removal of waste products from the rooms

Informative sessions and seminars are regularly held on the services and equipment.

All SCC-PCB hold ISO 9001 and ISO 14001 certification, guaranteeing their quality.
Shaker-incubators from 16ºC to 60ºC

6 rooms located in the Cluster and Helix buildings.

- Shaker-incubators
- Climatic chamber (37ºC) with shaking platforms

Contact:
- scc-pcb@pcb.ub.cat
- Phone: 934 037 099
6 rooms located in:

Clúster building:
Ground floor:
  > C71
  > AB15
  > AB23
  > BC53

Hèlix building:
Ground floor:
  > B08
First floor:
  > A12
Centrifuges

Centrifuges with different features spread across 9 rooms in the Cluster and Helix buildings.

> Benchtop centrifuges (low speed)
> High-speed/high-capacity centrifuges
> Ultracentrifuges
> Benchtop ultracentrifuges
> Cytocentrifuge (Cytospin)

Contact:
> scc-pcb@pcb.ub.cat
> Phone: 934 037 099
9 rooms located in:

Clúster building:
- Basement floor: AP11
- Ground floor: C71, AB15, AB23, BC53
- First floor: BC41

Hèlix building:
- Ground floor: B08
- First floor: A12
- Second floor: B07
Primary cultures, cell lines, yeast cultures, bacterial cultures

5 clean rooms, 2 yeast culture rooms and 2 bacterial culture rooms.

> Biological safety cabinets
> CO2 Incubators
> Centrifuges
> Laboratory refrigerators
> Laboratory freezers
> Ultrapure water system
> Shaker-incubators, thermostatic baths
> Inverted microscopes (with/without fluorescence, capture and documentation software)
> Cell counter

New users must register by contacting:
> scc-pcb@pcb.ub.cat
> Phone: 934 037 099
5 clean rooms:

Clúster building:
Basement floor:
> A21
Ground floor:
> C71
> AB31
First floor:
> BC43

Hèlix building:
Ground floor:
> B05

2 yeast culture rooms:

Clúster building:
Basement floor:
> CP52
Ground floor:
> B08

2 bacterial culture rooms:

Clúster building:
First floor:
> BC41
Hèlix building:
Ground floor:
> B08
Drosophila

2 fly rooms with stereoscopic microscopes in the Cluster building.

> 2 climatic chambers (at 18°C and 25°C)
> 2 climatic incubators (at 18°C) and 1 climatic incubator (at 25°C)
> 4,600 liters per year of culture-medium for drosophila
> 40,000 monthly food tubes
> Installation of CO$_2$

Contact:
> scc-pcb@pcb.ub.cat
> Phone: 934 037 099
2 rooms located in:

Clúster building:
Basement floor:
  > A23
Ground floor:
  > B22
Cold storage

5 rooms with ultrafreezers, 2 nitrogen rooms and 9 cold chambers

> Ultrafreezers (-80ºC)
> LN2 storage systems spread across two rooms
> Cold chambers (4ºC)

Washing room.

> The PCB offers a service to store user freezers in a duly fitted-out space

Contact:
> scc-pcb@pcb.ub.cat
> Phone: 934 037 099
5 ultrafreezers rooms:

Clúster building:
- Basement floor:
  - A24
  - A32
- Ground floor:
  - C71
- First floor:
  - BC41

Hèlix building:
- Ground floor:
  - B06

9 cold chambers rooms:

Clúster building:
- Basement floor:
  - AP11
  - CP52
- Ground floor:
  - AB23
  - BC53
  - C71
- First floor:
  - BC41

Hèlix building:
- Ground floor:
  - B08
- First floor:
  - A12
  - BC41
- Second floor:
  - B07

2 nitrogen rooms:

Clúster building:
- Basement floor:
  - AB31

Hèlix building:
- Ground floor:
  - B22
11 rooms located in the Cluster and Helix buildings.

- Triple beam balance
- Gel dryers
- Ultrasonic bath
- Speed vac
- Electroporators
- French Press
- Sonicators
- Freeze dryer
- Self-service autoclaves
- Ultrapure water systems

Contact:
- scc-pcb@pcb.ub.cat
- Phone: 934 037 099
11 rooms located in:

**Clúster building:**
- Basement floor:
  - AP11
  - AP31
  - CP52
- Ground floor:
  - AB15
  - AB23
  - BC53
  - C71
- First floor:
  - BC41

**Hèlix building:**
- Ground floor:
  - B08
- First floor:
  - A12
- Second floor:
  - B07
Spectrophotometers

Located in 6 rooms spread across the Cluster and Helix buildings.

- Microplate readers (Fluorescence, Luminescence, Absorbance)
- UV-visible cuvette spectrophotometers
- Volume spectrophotometer
- Tube luminometer
- Tube fluorometer
- Equipment for gel photo-documentation
- Crosslinker
- UV Transilluminator
- IR Scanner Odyssey
- Odyssey Fc

Contact:
- scc-pcb@pcb.ub.cat
- Phone: 934 037 099
6 rooms located in:

Clúster building:
Ground floor:
  > C71
  > AB13
  > AB21
  > BC53

Hèlix building:
First floor:
  > A12

Second floor:
  > B07
Histology

1 room in the Cluster building.

- Cryostat
- Rotary microtome
- Stereoscopic microscope
- Flotation bath
- Ultrapure water system

Contact:
- scc-pcb@pcb.ub.cat
- Phone: 934 037 099
1 room located in:

Clúster building:
Basement floor:
  > A11
Microscopes

3 rooms located in the Cluster and Helix buildings.

> Stereoscopic microscope MZ 16F (Leica)
> Microscope E1000 (Nikon)
> Microscope E600 (Nikon)
> Microscope E800 (Nikon)
> Inverted microscope TE200 (Nikon)
> Confocal microscope SP5 (Leica)

New users must register by contacting:
> scc-pcb@pcb.ub.cat
> Phone: 934 037 099
3 rooms located in:

Clúster building:
Basement floor:
  > A11
  > AP11

Hèlix building:
Ground floor:
  > A07
Dark rooms

3 dark rooms.

- Automatic developers
- Transilluminators

Contact:
- scc-pcb@pcb.ub.cat
- Phone: 934 037 099
3 rooms located in:

**Clúster building:**
Basement floor:
  > AP11
Ground floor:
  > BC33

**Hèlix building:**
Ground floor:
  > B13
Cleaning and sterilisation service

2 rooms located in the Cluster and Helix buildings.

> Glassware and plastic laboratory material washing room
> Autoclaved, steam sterilised
> Hot air drying and sterilisation (dry heat)
> Pick-up and delivery of laboratory material
> Liquid sterilisation

Contact:
> scc-pcb@pcb.ub.cat
> Phone: 934 037 099
Rooms located in:

Clúster building:
Basement floor:
  > A22

Hèlix building:
Ground floor:
  > A21
Protein purification

1 room with chromatography systems in the Cluster building.

> Äkta Purifier 10
> Äkta Explorer 100
> Äkta FPLC
> Biorad NQC Quest 10

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> scc-pcb@pcb.ub.cat
> Phone: 934 037 099
1 room located in:

Clúster building:
Ground floor:
> B41
Radioactive facility (IR-PCB)

300m² of authorised exclusive laboratories, 190m² of shared-use laboratories with two well-equipped central radioisotope laboratories.

FACILITIES:
> Cell culture area
> Animal testing area
> Counter room
> Waste storage
> Peripheral laboratories
> X-ray diffraction room

EQUIPMENT:
> 2 Molecular Dynamics Typhoon 8600 Phosphorimager
> 1 Amersham Typhoon IP
> 3 Packard Tri-Carb 2900TR beta counters
> 1 Packard Cobra II gamma counters
> 1 Hidex AMG gamma counter
> 2 Packard TopCount microplate beta counters
> 1 Yxlon Intl. Smart X-ray irradiator
> 1 Waters HPLC

The IR-PCB is also fitted out with: centrifuges, electrophoresis cuvettes and power supply, refrigerators and freezers, dryers and lyophilisers, shakers, thermocyclers, portable surface contamination monitors and portable Geiger monitors.

Contact:
> ir-pcb@pcb.ub.cat
> Phone: 934 034 679
Rooms located in:

Clúster building:
Basement floor:
  > A31
Ground floor:
  > AB14
  > AB16

Hèlix building:
Ground floor:
  > B01
  > B02
Chemistry Common Room (SCQ-PCB)

50m² room fitted out with equipment used in chemical processes:

> FT-IR spectrometer
> preparative HPLC
> KBr press
> UV-visible spectrophotometers
> High-capacity ultrasonic bath
> Device to determine the fusion point of compounds
> Eppendorf concentrator (speed vac)

Contact:
> pqa-pcb@pcb.ub.cat
> Phone: 934 037 122
1 room located in:

Clúster building:
First floor:
> B33
Special Reaction Services (SRE-PCB)

65m² of laboratories equipped for performing special reactions

FACILITIES:

- Toxic products and dangerous reaction laboratory
  - Fumehoods
  - Rotary evaporator with vacuum pump
  - Refrigerator
  - Vacuum oven with vacuum pump
- High- and low-pressure hydrogenation laboratory
  - Hydrogen line of up to 6 bars
  - High-pressure hydrogen line of up to 60 bars
  - Hydrogen detector
  - Miniclave Autoclave
  - Miniclave Drive Autoclave
  - Autoclave Bep 280
- Hydrogenation laboratory for processes of up to 100 bars under ATEX regulations of restricted use
  - Hydrogen line of up to 6 bars
  - High-pressure hydrogen line of up to 100 bars
  - Hydrogen detector

Contact:
> sre-pcb@pcb.ub.cat
> Phone: 934 037 099
1 room located in:

Clúster building:
Top floor:
  > C4