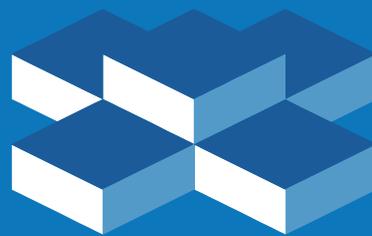




# GRANADA HEALTH

#GranadaSalud



P T S  
Health Technology Park



**Universidad  
de Granada**



**Diputación  
de Granada**



**AYUNTAMIENTO DE GRANADA**



**Ogíjares**



**Partners:**





## The PTS Foundation

The Granada Health Science Technology Park (PTS) Foundation was established on 18 March 1997 to promote and coordinate the construction and development of facilities and infrastructures in the PTS.

### The PTS mission

The PTS's mission is to provide a model for the transfer of essential clinical research and technology in the fields of health, biomedicine and life sciences, contributing to economic development by:

1. Promoting international interdisciplinary biomedical research to improve health through better understanding, diagnosis, treatment, cure and prevention of diseases.
2. Protecting and transferring the knowledge generated, especially in the field of life sciences.
3. Consolidating a technology-based biohealth business framework for improved clinical practice.

4. Providing a centre of healthcare excellence that meets patients' healthcare needs.

The Foundation is made up of a number of different institutions working together to make the PTS mission possible:

- The Autonomous Government of Andalusia, through its Regional Ministry of Finance, Innovation, Science and Employment, its Regional Ministry of Equality, Health and Social Policy, and its Housing and Regeneration Agency
- The University of Granada
- The Provincial Council of Granada
- The city and town councils of Granada, Armilla and Ogijares
- Financial institutions BMN CajaGranada and Caja Rural de Granada

The PTS Foundation also works in collaboration with the Granada Confederation of Entrepreneurs, the Granada Chamber of Commerce, the Spanish Council for Scientific Research (CSIC) and Zuzia Town Council.



## PTS alliances and partnerships

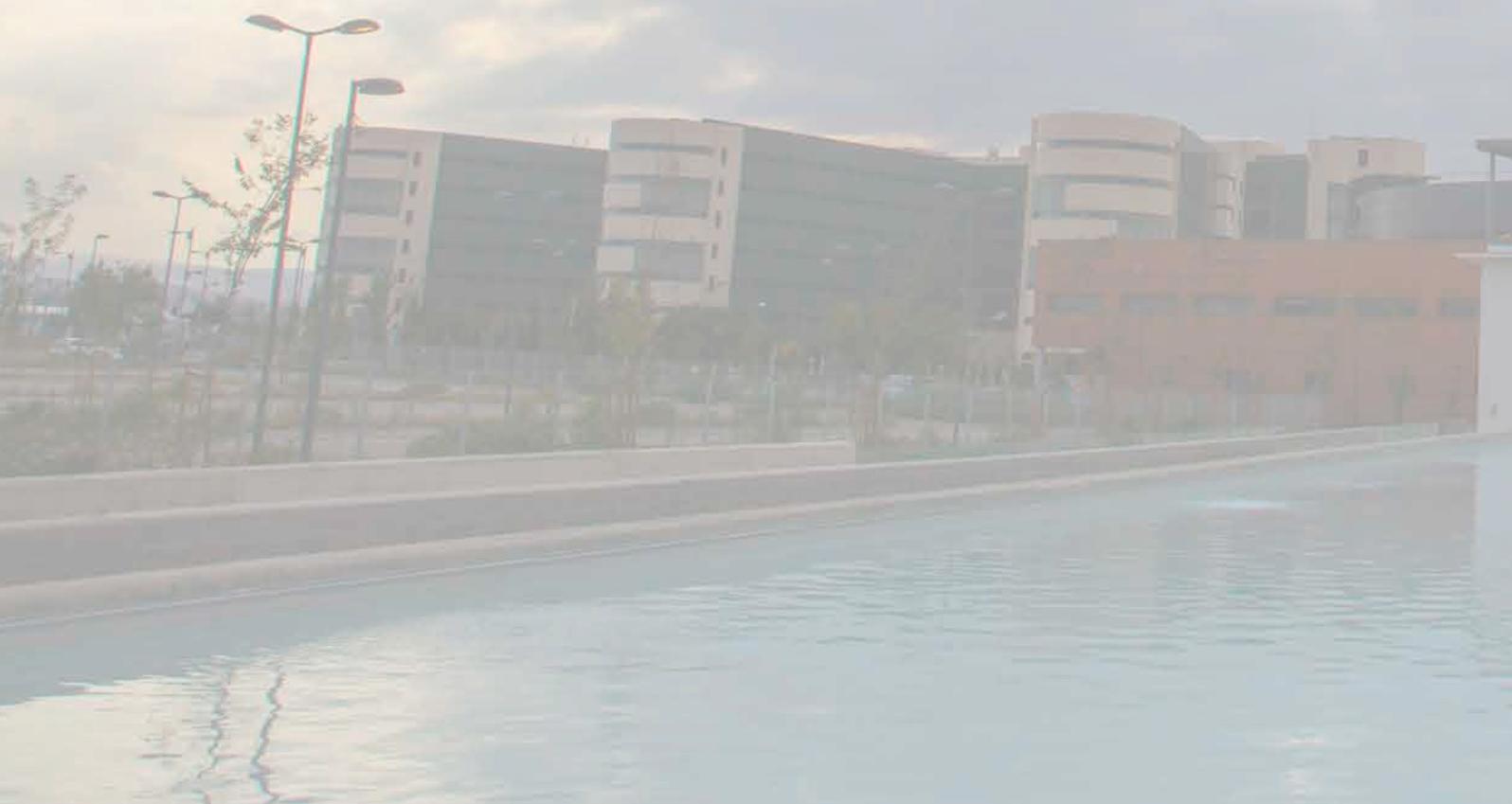
The PTS has established a series of alliances and works together with a number of sector-relevant organisations. This collaboration helps to create new opportunities for research projects as well as new business opportunities for the research institutes and companies based in the Park. Some of the PTS's most important alliances are listed below.

The Granada Health Technology Park is an active member of the following associations:

- International Association of Science Parks (IASP)
- Association of University Research Parks (AURP)
- Association of Science and Technology Parks of Spain (APTE)
- Andalusian Network of Technology Sites (RETA)
- Spanish Association of Bioenterprises (ASEBIO)
- Alejandro Otero East Andalusia Biomedical Research Foundation (FIBAO)

The PTS also works in close collaboration with prestigious biotechnology and healthcare organisations, including:

- Andalusian School of Public Health (EASP)
- The University of Granada's Scientific Instrumentation Centre (CIC)
- Andalusian Technological Association (CTA)
- Granada's Parque de las Ciencias museum
- University Technology Park, Illinois Institute of Technology





## International model

The PTS is one of a kind in Europe, a key international partner for technology transfer in the field of health sciences.

The Park has evolved thanks to synergies developed between the University of Granada, research centres and health science companies.

Our vision is clear: we are developing a top-class research and business ecosystem serving healthcare services.

Why can we be considered an international partner? Because the PTS Foundation heads up a group of internationally renowned institutions and companies promoting a new strategic concept for science and technology parks.

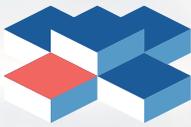
The PTS would be a reliable partner for similar projects in the future, because our multidisciplinary transnational team has all the required know-how and experience to provide effective solutions.

We use our experience and know-how to provide specialist consultancy services in the following fields:

- Urban land use planning
- Urban development projects
- Construction projects
  - Biohealth architecture
  - Scientific and technological equipment
- Knowledge transfer models
  - Between universities and companies
  - Between companies and the healthcare system
  - Between public hospitals and the healthcare system
  - Between public and private hospitals
- Governance models
- Business incubators and accelerators
- Entrepreneurial skills training
- Attracting investment and companies
- Relations with sector institutions
- Dissemination policies

The Health Technology Park is a venue where appropriate infrastructure and services to the general objectives are developed. It seeks to be a space for teaching, health care, research and business excellence, sectorally specialized in life sciences, generating the image of the brand 'Granada HEALTH'.

### Business development



### Research

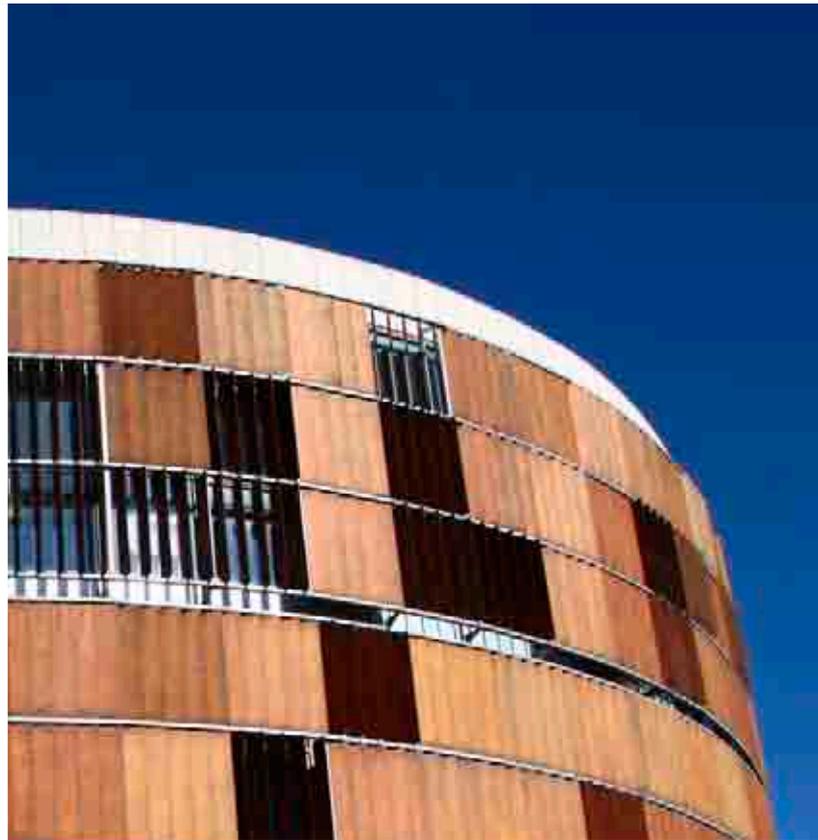


### Teaching



### Healthcare





## BIC Granada

The BIC Granada Business Centre is home to various biotechnology and ICT companies and innovation agents working in the fields of life sciences, health sciences, bioinformatics, ICT, and other technologies and services.

As well as the biotechnology and health business incubator and accelerator, the BIC Granada Business Centre accommodates the provincial headquarters of the Andalusian Innovation and Development Agency (IDEA), the Granada Business Development Support Centre (CADE), and a local office of the Spanish Patent and Trademark Office.





## Advanced Multifunctional Centre for Simulation and Technological Innovation (CMAT)

The CMAT building provides the headquarters for the Public Enterprise for Health Emergencies' provincial 061 emergency ambulance service, as well as the Foundation for Technological Advancement and Professional Training (IAVANTE). The Andalusian Public Health Service's Innovative Practices Bank and Living Lab Salud Andalucía are also based there. The IAVANTE area of the CMAT building focuses primarily on training and professional development for postgraduate healthcare professionals, using the latest robotics and simulation technologies.





## The López Neyra Parasitology and Biomedicine Institute (IPBLN)

The IPBLN is a multidisciplinary centre focusing on research in biochemistry, molecular pharmacology, molecular and cellular biology, and immunology. Research groups in the IPBLN are working on two main lines of research: infectious diseases (some tropical diseases, AIDS and hepatitis C) and degenerative diseases (including immune system diseases, cancer, Parkinson's disease and multiple sclerosis).

A number of separate units work in the centre, including units focusing on genomics (DNA sequencing and oligonucleotide synthesis), proteomics (protein identification), microscopy, animal experimentation (with an animal facility to develop and keep animal models for the study of disease), cell culture, radioactivity and biosafety, IT, cleaning and sterilisation, and cytometry. The Institute also has its own library.





## Biomedical Research Centre (CIBM)

A number of research groups from various specialist science centres work in the CIBM. The building is the headquarters of the Institute of Biopathology and Regenerative Medicine (IBIMER), the Biotechnology Institute, the Federico Olóriz Neuroscience Institute, and the José Mataix Institute of Nutrition and Food Technology. It is also home to the Biobank of the Andalusian Public Health System and the University of Granada's PTS Vice-Chancellor's office.

A number of units supporting these research groups also operate in the CIBM, including units for experimental radiology, animal experimentation, microscopy, flow cytometry, biotechnology and food analysis.

The CIBM has a specialist P3 biosafety laboratory for research using living organisms, the first P3 facility in Granada. It also has a P2 facility.





## ROVI Pharmaceutical Laboratories

One floor of the ROVI building accommodates a bemparin manufacturing plant. The bemparin is sold under the trade name Hibor and exported to 35 countries. The ROVI building also has a research section, with three active lines of research: one is developing an oral heparin formulation (the drug is currently only available as an injectable); a second is developing sustained-release injectables (e.g. for cancer pain or schizophrenia); and a third is working on molecular treatment for diabetic foot ulcers.





## Servilens Fit & Cover

Servilens has a contact lens production plant which takes care of its entire production process. The plant includes a production and distribution zone with the latest manufacturing and labelling technologies, as well as offices and training areas.

The plant's main task is to produce the company's wide range of contact lenses and to distribute the products to the national and international market. Servilens is a market leader in the manufacture of disposable contact lenses and has the most modern production plant for private label contact lenses in Europe.





## Pharmaceutical and Food Development Centre (CDFA)

The CDFA building provides the headquarters for two organisations:

- The MEDINA Foundation (Andalusian Centre of Excellence for Research into Innovative Medicines), a collaborative project between pharmaceutical company Merck, Sharp & Dohme, the Autonomous Government of Andalusia and the University of Granada. MEDINA is a non-profit organisation that carries out top-quality biomedical research with the aim of developing innovative therapies and compounds for a wide range of diseases. It boasts one of the largest collections of microbial cultures, as well as one of the most chemically diverse libraries of natural products. MEDINA has an excellent track record in the discovery of new drug candidates.
- Inves Biofarm, a company devoted to researching and developing orphan drugs to improve the quality of life of patients with rare diseases. It also has a biotechnology R&D&I unit for the development of dermatological treatments.

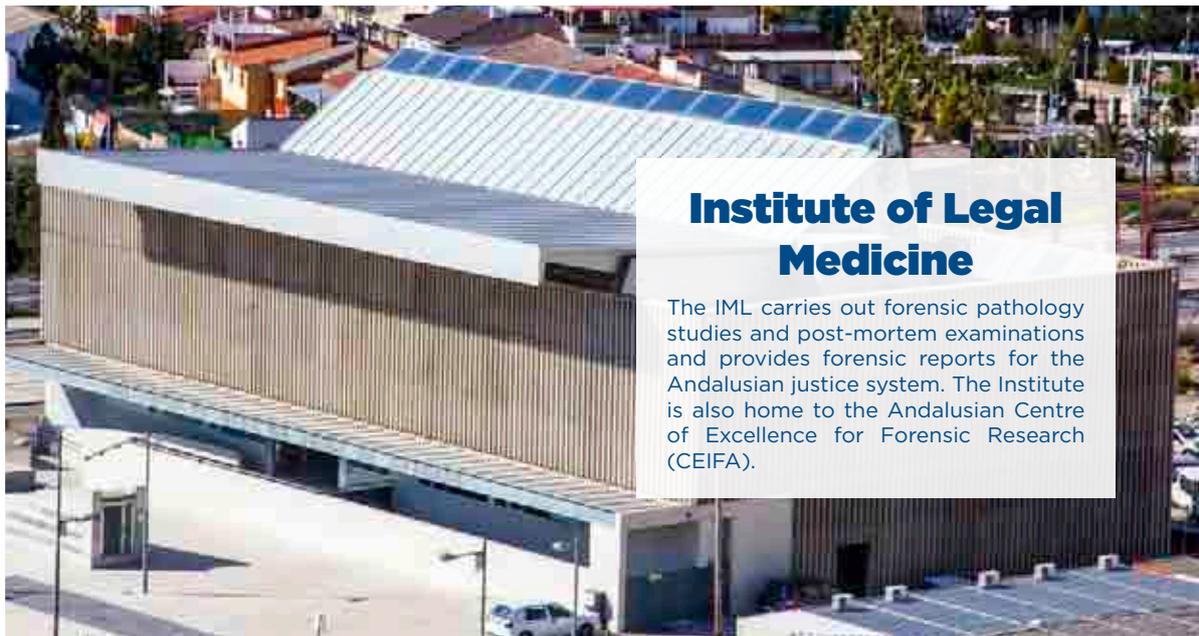




## Genomics and Oncology Research Centre (GENyO)

GENyO is a joint centre run by pharmaceutical company Pfizer, the Autonomous Government of Andalusia and the University of Granada. It is a centre of excellence in genomics and oncology research. GENyO focuses on three main areas of research: human genetic variability (studying the genetic basis of diseases), genetic oncology (studying cancer development and potential new treatments), and pharmacogenetics and pharmacogenomics (developing personalised therapies). In addition, the GENyO building is home to Althia, a personalised predictive medicine company for cancer patients, which has its own R&D laboratories for this sector.





## **Institute of Legal Medicine**

The IML carries out forensic pathology studies and post-mortem examinations and provides forensic reports for the Andalusian justice system. The Institute is also home to the Andalusian Centre of Excellence for Forensic Research (CEIFA).



## **Ibermutuamur**

The Ibermutuamur building is the Granada headquarters of this occupational health mutual insurance company linked to the Spanish Social Security system. It provides healthcare and medical leave administration services for its policyholders, as well as rehabilitation and physiotherapy equipment, a sleep clinic and a cardiac rehabilitation unit.



## **International Institute of Phlebology (IIDF)**

This Institute will be home to the Cabrera Foundation research centres. The five-storey building will accommodate offices, consulting rooms and laboratories for research and development of cures for circulatory system diseases.



## Master Diagnóstica

70% of Master Diagnóstica's five-storey building is taken up by its biotechnology R&D laboratories, where cellular and molecular pathology research is performed to develop in vitro diagnostic systems for cancer and infectious diseases. The company also has its own specialist biosafety laboratories.



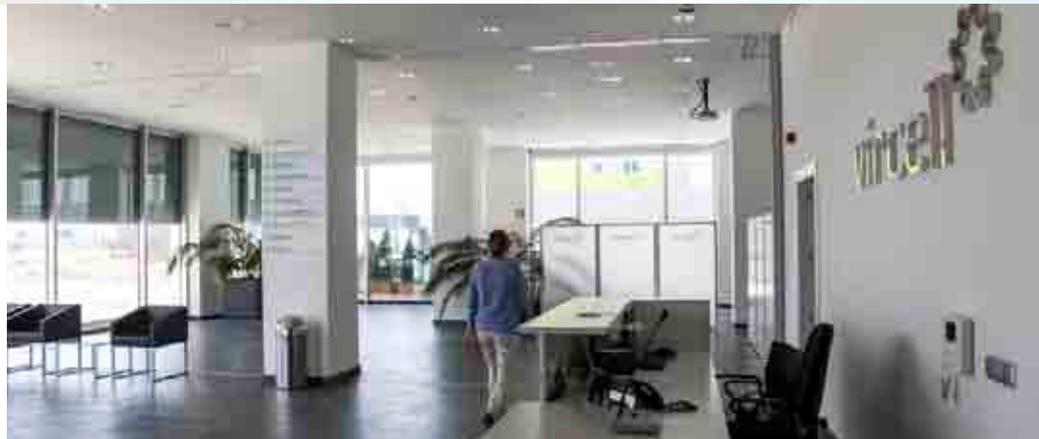
## Bioregion Building

Part of a trio of buildings run by the PTS Foundation, alongside the Foundation headquarters and the Business Centre, the Bioregion Building accommodates a number of different institutions. The top floor is home to the Functional Foods Research and Development Centre (CIDAF), which has several laboratories. The first floor is used by the Autonomous Government of Andalusia's Fernando de los Ríos Consortium, which is working on the Guadalinfo project and information and knowledge society policies. Finally, the ground floor accommodates the BioTic Granada Campus of International Excellence, the Andalusian Association of Biotechnology Companies and the Descubre Foundation.



## Vircell

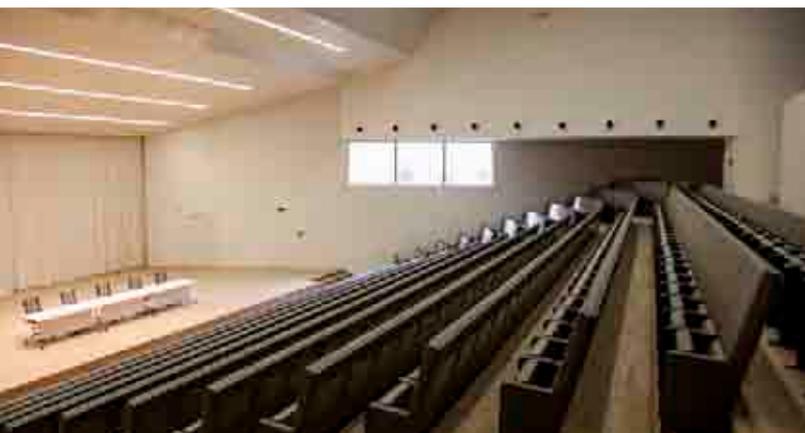
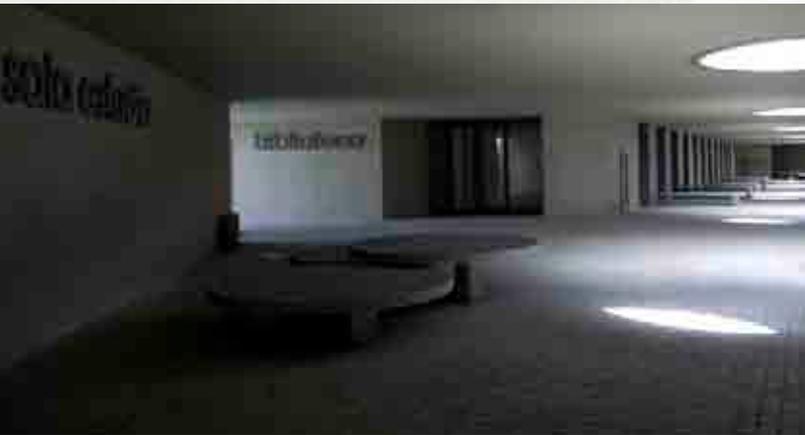
This company researches and develops reagents for the diagnosis of infectious diseases. Vircell exports its products to 75 countries. Its facilities are distributed across seven floors, and include R&D and biosafety laboratories.

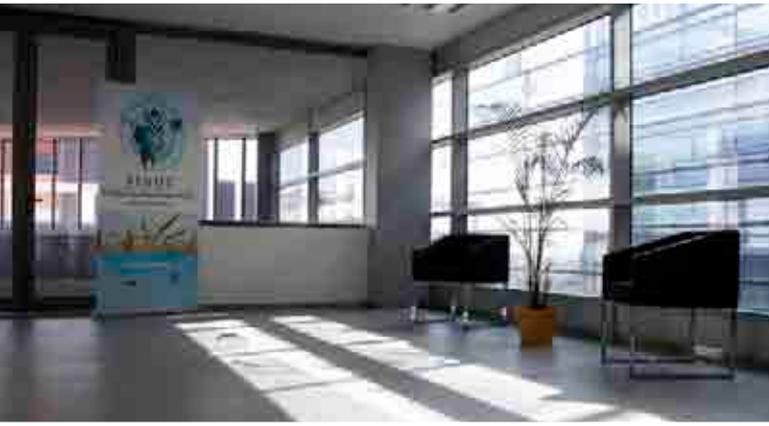




## University of Granada Main Building

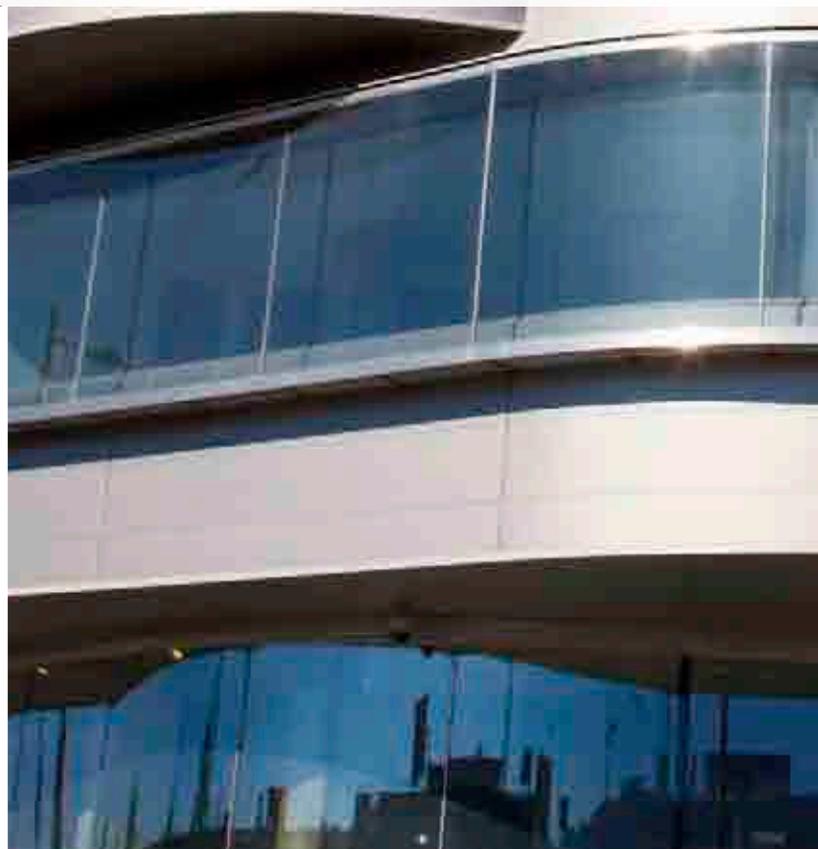
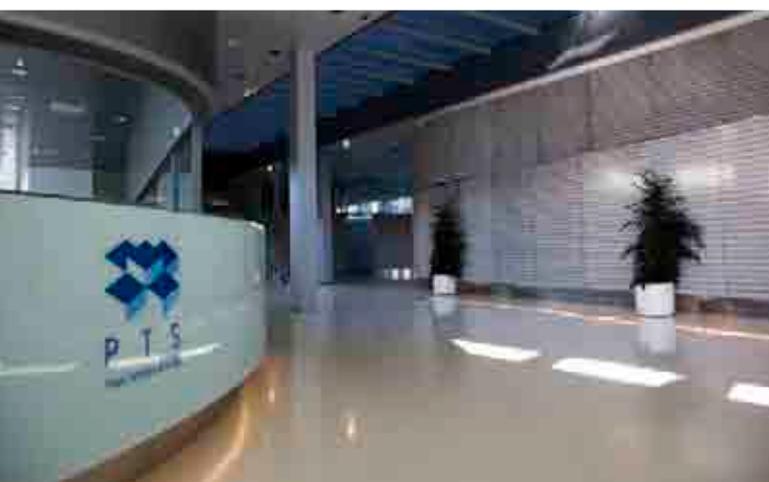
This building provides administrative support services for the University's faculties in the PTS. It includes the central life sciences library, the main auditorium, a cafeteria and restaurant, a crèche, and study areas. It connects all of the University's PTS campus together via a public garden area.





## R&D Armilla Building

This multifunctional building is designed to accommodate various companies and institutions and is run by the PTS Foundation. It is currently the headquarters of multinational companies such as Telefónica's R&D division, or the Andalusian office of Dutch multinational Unit 4. It is also home to the Autonomous Government of Andalusia's Primary Care Healthcare District offices, the Ibero-American Nutrition Foundation (FINUT), and companies including Clínica OXUM and Global InDevices.

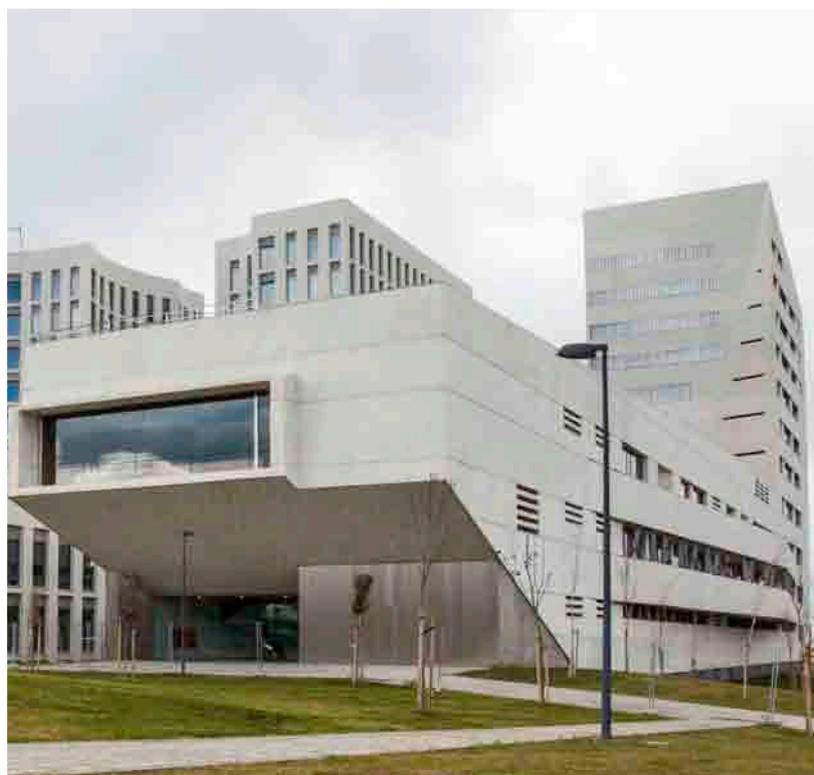






## Faculty of Medicine

The new Faculty of Medicine consists of three 11-storey buildings connected via walkways. Classrooms and teaching areas make up 4,000 m<sup>2</sup> of its total floor area, while laboratories account for 2,700 m<sup>2</sup>. The Faculty's teaching and research activities are perfectly integrated with the rest of the Park's facilities.



## Faculty of Health Sciences

This highly functional L-shaped building is 11 storeys high with the teaching area at the bottom. Its classrooms make up 2,700 m<sup>2</sup> of the total floor area, while laboratories and practical training areas account for 1,100 m<sup>2</sup>. This Faculty is one of the Park's most emblematic buildings, and is home to the departments of nursing, physiotherapy and occupational therapy.



## University Hospital

The nine-storey hospital building has a terraced layout, so visitors and patients can feel the sunlight coming through the windows no matter where they are in the building. This gives the hospital a bright, open feel. Each floor is designed as an independent sub-hospital with all of the necessary consulting rooms, clinical offices and inpatient beds. This means that patients go to the consulting room of a particular medical specialism and are diagnosed, operated on and admitted if necessary without having to change floors. Each floor has two distinct sections: an outpatient department and an inpatient department.

The hospital has 700 beds, 26 operating theatres and 132 consulting rooms. The casualty department has an emergency room, 22 consulting rooms and 44 observation beds as well as teaching areas, libraries, laboratories and experimental operating theatres.





## Neuron Bio

This five-storey building is used by Neuron Bio's Neuron Biopharma division, which is working on discovering and developing compounds to prevent or treat various neurodegenerative diseases. Its priority area of research is Alzheimer's disease, focusing primarily on understanding the implications of cholesterol regulation in the brain. The building has several laboratories, as well as a pilot plant for bioprocesses and a clean room.



## PTS Business Centre and Medical Centre

The Business Centre building consists of six floors for 94 business modules and/or laboratories, with seminar and meeting rooms, an administration and management area, a cafeteria and 200 parking spaces. The building provides spaces exclusively for biotechnology or ICT companies. The PTS Medical Centre is in the annexed building, and provides specialist medical consulting rooms.



## University Sport and Health Institute (iMUDS)

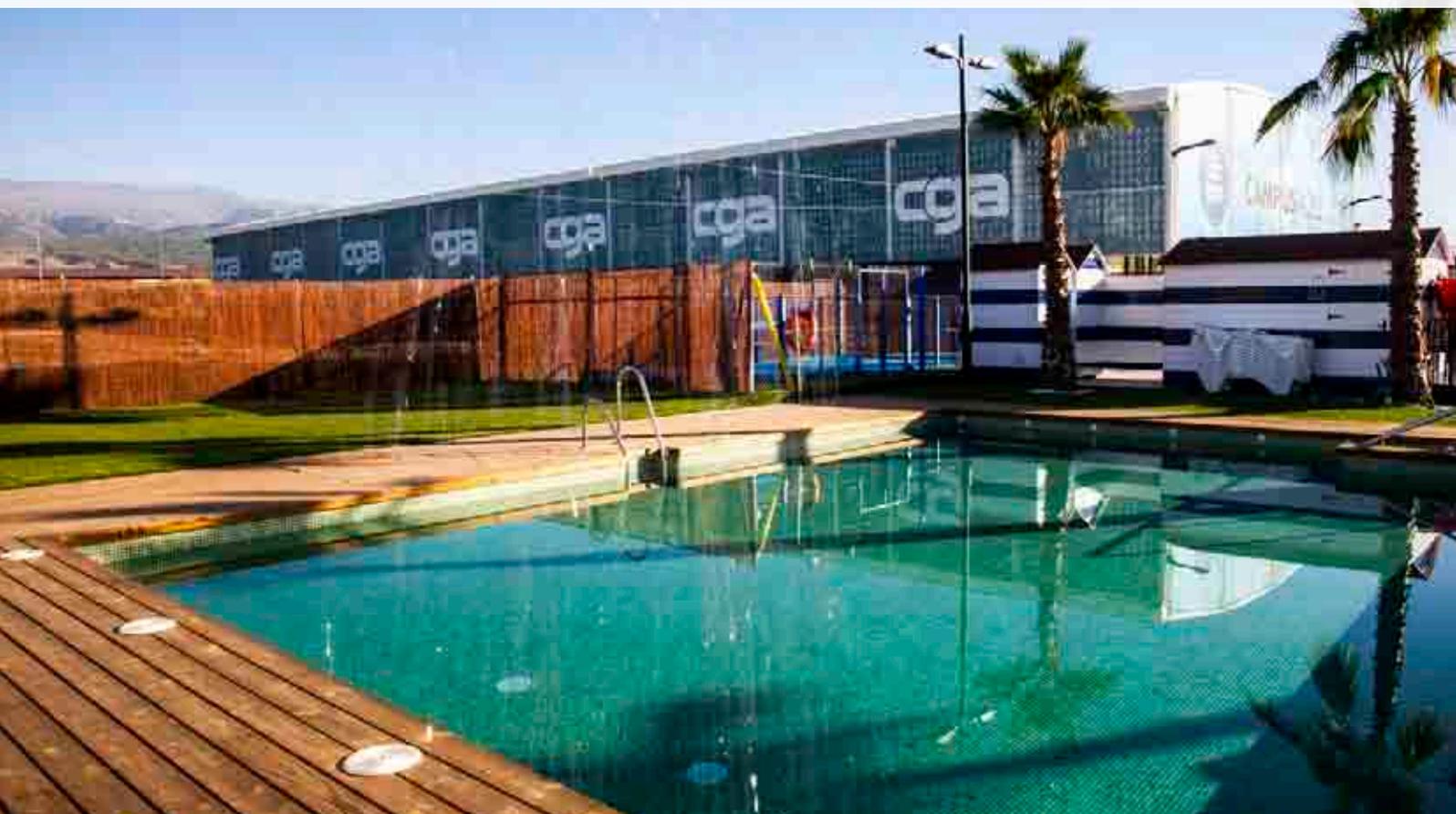
The iMUDS building has a number of multi-purpose biomedical and biomechanics laboratories, as well as classrooms, office areas and a large sports therapy section complete with therapy pool. The Institute works on projects to promote health and quality of life, and carries out research on fibromyalgia and obesity, all based on studies by researchers in the fields of sport, medicine and physiotherapy. iMUDS employs more than 100 researchers.



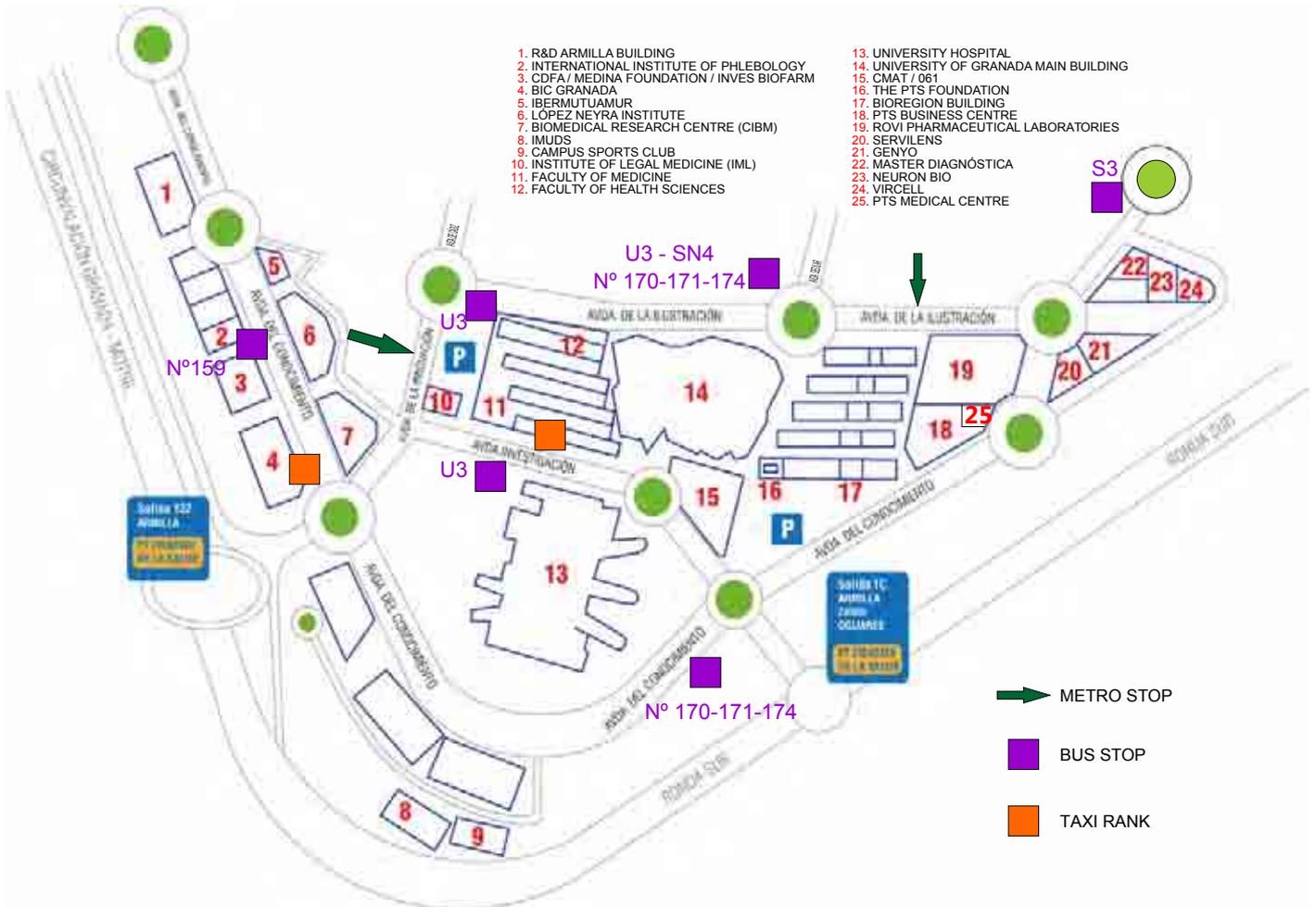


## Campus Sport Club

The club boasts 13 tennis courts, eight paddle tennis courts, two swimming pools, a football pitch, a clubhouse with a café and green spaces, as well as areas for warming up, jogging and cyclo-cross.



## Map of Health Technology Park. Granada





P T S  
Health Technology Park

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