

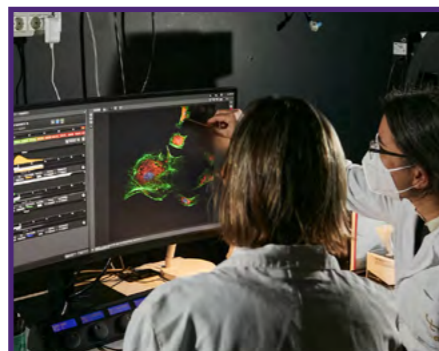
SCIENCE CITY

BIST

The **Barcelona Institute of Science and Technology (BIST)** is a leading, multi-disciplinary research institution that includes seven Catalan research centres, specialising in different scientific areas. All of them have been distinguished with the *Severo Ochoa Centre of Excellence* seal, awarded by the Spanish Ministry of Science and Innovation to centres that stand out for their international relevance and impact.

The BIST and its centres are active stakeholders in the development of the science and innovation ecosystems they interact with, and they also play an active role in the dissemination of knowledge and have links to the education system. In addition to attracting talent, another facet of this model is the transfer of technology and links with industry, which ensures that the inventions created by research groups are transformed into innovations that reach society as a whole. The BIST also cooperates with scientific institutions, companies, private individuals and public and private organisations in order to achieve its objectives. The BIST centres have founded 45 spin-offs, 39 of which are active companies today. In the last two years, these companies have had a turnover of more than €50 million.

Seven research centres that promote research excellence in a multi-disciplinary environment →



Centre for Genomic Regulation

The Centre for Genomic Regulation (www.crg.eu) is an international biomedical research institute of excellence, which has the mission of discovering and advancing knowledge to benefit society, public health and economic prosperity. The CRG believes that the medicine of the future depends on the innovative science of today. This requires an inter-disciplinary scientific team focused on understanding the complexity of life, from genomes to cells and entire organisms, and their interaction with their surroundings, offering an integrated vision of genetic disorders. The main areas of research are gene regulation, stem cells and cancer; cell and developmental biology; bioinformatics and genomics and systems biology. Located on the seafront, it is inside the Barcelona Biomedical Research Park (PRBB) (www.prbb.org), in one of the city's most emblematic buildings.



Institute for Research in Biomedicine

The Institute for Research in Biomedicine (www.irbbarcelona.org) is the biomedical research centre that works towards achieving a life free of illnesses. Its multidisciplinary research of excellence provides pioneering solutions to unmet medical needs in cancer and other age-related diseases. It also establishes collaboration programmes with the pharmaceutical industry and major hospitals, in order to provide them with the results of the research, through the transfer of technology, and it carries out various scientific dissemination initiatives to maintain an open dialogue with the general public.



Institute for Bioengineering of Catalonia

The Institute for Bioengineering of Catalonia (ibecbarcelona.eu) is a CERCA centre which has twice been recognised as a Severo Ochoa Centre of Excellence, as well as having the TECNIO seal, as a technology developer and company facilitator. The IBEC is a member of the Barcelona Institute of Science and Technology (BIST) and it carries out multi-disciplinary research of excellence at the frontier between engineering and life sciences. Its avant-garde research in areas such as nanomedicine, biophysics, biotechnology, tissue engineering and the applications of information technologies for health, enable it to generate new technological advances for the medicine of the future, regenerative therapies and active ageing. The IBEC was created in 2005 by the Government of Catalonia, the University of Barcelona (UB) and the Polytechnic University of Catalonia (UPC).



Institute of Photonic Sciences

The Institute of Photonic Sciences (www.icfo.eu) explores the frontiers of knowledge in various areas in which photonics plays a decisive role in tackling the challenges facing society. Since its creation in 2002, it has grown rapidly in size, scope and reputation, becoming a world leader in its area of research. In addition to research groups, it also has training and development programmes for developing the next generation of scientists and technologists, a technology and knowledge transfer team, which establishes collaboration programmes with industries, hospitals and companies, and they have also incubated 11 deep technology spin-offs.



Institute of Chemical Research of Catalonia

The Institute of Chemical Research of Catalonia (www.icqi.org) focuses its research activities on catalysis, renewable energies and chemistry for health. Through

research of excellence, they lead crossover strategies to resolve challenges such as climate change and the sustainable supply of energy and raw materials, working to develop and improve new chemical processes, molecules and materials that minimise waste and energy consumption, as well as seeking new strategies for improving people's health. The ICIQ also fosters international collaboration and informs society about its research through scientific dissemination programmes.



Catalan Institute of Nanoscience and Nanotechnology

The Catalan Institute of Nanoscience and Nanotechnology (icn2.cat) is an international research centre dedicated to the generation of knowledge, materials and devices in such diverse areas as ICT, health, energy and the environment. Although it was founded less than 10 years ago, it is already a world leader in the area of nanoscience and nanotechnology, carrying out basic nanoscale research on the physical, chemical and biological phenomena of materials, and applying them to the development of new materials, techniques and devices. The ICN2 strives to make a positive impact on society and train people who will lead research in the future.



Institute of High Energy Physics

The Institute of High Energy Physics (www.ifae.es) was created in 1991 in order to

carry out theoretical and experimental research in the fields of high-energy physics and astrophysics, tackling fundamental questions about our universe. Its lines of research include particle physics, astroparticle physics, cosmology, medical imaging, instrumentation physics and quantum computing technologies. The IFAE is located on the Autonomous University of Barcelona Campus and it is a member of the Barcelona Institute of Science and Technology (BIST).



New Research Hub in the former Fish Market

By the end of 2025, Barcelona will have a new research and innovation hub near Parc de la Ciutadella. With the support of Barcelona City Council and the Government of Catalonia, the BIST, the UPF, the CSIC and the UB are creating a new complex that will foster inter-disciplinary research and innovation, focusing on biomedicine, biodiversity and planetary well-being.

The Fish Market project (mercatdelpeix.upf.edu) will create a new, 45,000m² complex, consisting of three buildings and an underground car park, on the site of Barcelona's former fish market, demolished in the 1980s, and currently used as a public car park. With a planned investment of nearly €93 million, this new knowledge hub will employ approximately 1,200 researchers.

Within this complex, the BIST will construct a 25,000m² building for research into precision medicine. The new building will make it possible to bring together various expert groups researching various disciplines, including genomics, bioinformatics, nanotechnology and bioengineering. The Barozzi Veiga architecture studio, the successful bidder for the international tender, will be responsible for constructing this ambitious initiative.