

Major companies, SMEs, technology platforms, services

bioPmed Piemonte Innovation Cluster

www.biopmed.eu
bioPmed is the regional innovation cluster dedicated to healthcare created in 2009 thanks to the public funding of Piemonte Region. It gathers 80 members, such as companies, universities, research centres, foundations and associations and represents the main reference point for life sciences in Piemonte. The bioPmed cluster has ongoing synergic collaboration with other local innovation clusters: food and agriculture, ICT, mechatronics, new materials, sustainable chemistry, textiles. Inter-clusters projects are developed on functional foods, bioinformatics, diagnostics, medical biomaterials, biomedical engineering.



- Growing biomedical companies such as CID (www.cidvascular.com), [Dipromed](http://www.dipromed.eu) (www.dipromed.eu), Eltek (www.eltekgroup.it), Intrauma (www.intrauma.com), Im3D (www.im3d.com), Nihil Bio Recherche (www.nihilbio.it) and E-health companies such as bMooble (www.bmooble.com), Laser (www.laser-group.com), Regola (www.regola.it), moltosenso (www.moltosenso.com) etc.
- Companies in other sectors where the know-how in life sciences is an element of competitiveness, such as food (Gruppo Mofin Alce - www.mofinalce.it) and environment (BSA Ambiente - www.bsaplanet.com, Novamont - www.novamont.com)
- R&D centres, concentrated mainly in clusters located in and around Torino and specialised in the sectors of health - mostly oncology and immunology, central nervous system, proteomics, imaging, molecular biology and environment.

For further information on life sciences in Piemonte:
www.biopmed.eu



- Laboratories, pilot plants and production facilities of important diagnostics, pharmaceutical and cosmetics companies, such as Bracco Imaging (www.braccoimaging.com), Merck Serono (www.merckserono.it), Sorin Biomedica Cardio (www.sorin.com), DiaSorin (www.diasorin.com), ABC Farmaceutici (www.abcfarmaceutici.it), Sicor (www.tevapharm.com) etc.
- Innovative companies in the pharmaceutical, diagnostics and regenerative medicine sectors, as shown by the cases of Creabillis Therapeutics (www.creabillis-sa.com), Advanced Accelerator Applications (www.adacap.com), Medestea (www.medestea.it), A. Costantino & C. (www.costantino.it), Ephoran Multi Imaging Solutions (www.ephoran-mis.com), Progefarm (www.progefarm.it), Amnol (www.amnol.it), ABLE Biosciences (www.ablebiosciences.com), Procelltech (www.procelltech.net) etc.



Piemonte Agency is the one stop shop to get in touch and make business with Piemonte-Italy. The Agency is the reference point to come to know about the local economic system, to get information on opportunities in the area, to find a quality destination for direct investment, to discover the perfect host for leisure and travel. The Agency provides a complete range of free services to foreign companies wishing to locate in the area, searching for suppliers and partners in a variety of sectors, requiring training in international trade and commercial strategies, willing to discover Piemonte's tourist vocation. The Agency matches the regional production offer with the needs expressed by international markets and proposes targeted activities to connect highly qualified local companies with foreign partners such as incoming trade missions for foreign business delegations, b2b meetings, the participation of Piemonte's enterprises to international fairs, projects for partners' research in mutual cooperation with other international organisations. Piemonte Agency collaborates with foreign companies willing to locate in the region sharing knowledge of the many opportunities the region has to offer. It provides free, responsive, tailored assistance at every stage of the investment project, including aftercare activities.

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The Torino Chamber of Commerce is a public institution with autonomous statute, regulations, management and accountability, and relies on a flexible, innovation and efficiency-based structure.

Our Mission

The mission of the Chamber is to foster the growth of the local economy and enhance it through effective and targeted initiatives, speaking on behalf of more than 237,000 companies working in the Province and registered in the Torino Chamber of Commerce's Register of Enterprises.

The Torino Chamber of Commerce promotes the local excellencies abroad with a focus on the hi-tech sectors such as automotive, aerospace, IT, nanotech and biotech.

In order to foster technology transfer, the Torino Chamber of Commerce coordinates and manages ALPS Consortium, a contact point of the Enterprise Europe Network, which is present in more than 40 countries.

Furthermore the Chamber can count on a proprietor network of foreign offices based in Eastern Europe, the Mediterranean Area, Asia and America.



The Torino Chamber of Commerce provides both local and foreign companies interested in international cooperation with a full range of services:

- training
- access to local and national
- financing
- support on EU funding schemes, research projects, legislation and policies
- IPR services
- identification and promotion of technology/commercial company profiles
- advisory services on international trade
- reliability analysis on both local and foreign potential partners
- organization of both incoming and outgoing trade missions
- organization and participation in international technology brokerage and b2b events
- data and statistics.

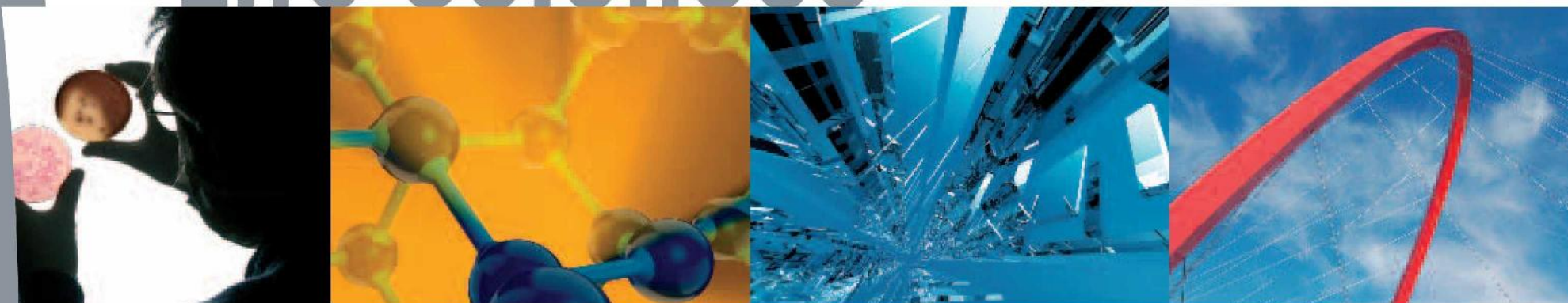
Our services are free, responsive, tailored to your needs and totally confidential.

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In collaboration with Bioindustry Park Silvano Fumero and bioPmed cluster



Life Sciences



in Torino Piemonte Northwest Italy

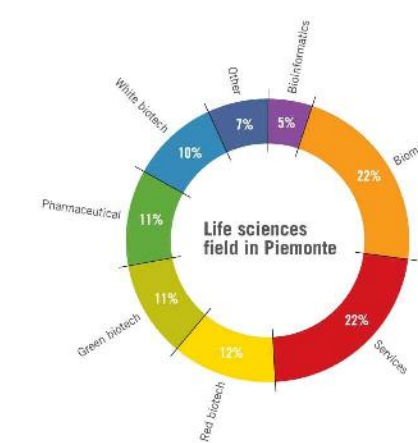
A favourable environment

Facts & figures

- 4.5 million inhabitants
- € 123.9 billion GDP
- € 38.5 billion exports of goods and services
- Over 200 public and private R&D centres, 380 laboratories, 4 universities, 6 science and technology parks
- 100,000 students enrolled in Piemonte's universities

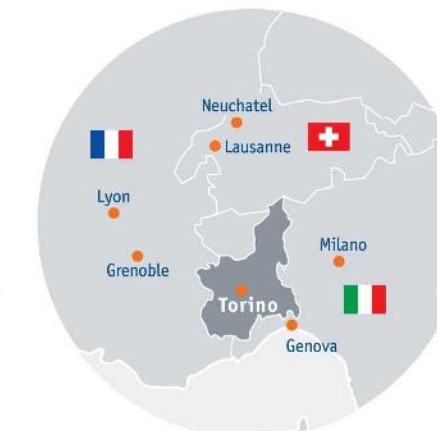
1st Italian region for:

- private investment in R&D
- expenditure on innovation in the manufacturing sector
- hi-tech patents



Life Sciences in Torino Piemonte

- In a strategic position right in the centre of one of the most dynamic biotech areas in Europe
- 2nd Italian region in terms of biotech companies (source: Assobiotech-Ernst&Young, BiolItaly 2011)
- 360 companies operating in the life sciences related fields, mostly streamlined, dynamic and flexible SMEs
- 7,000 people employed in life sciences and associated sectors
- More than 3,500 scientists working in life sciences, 60% are active in healthcare and medtech fields
- 3 public Universities, main drivers for the development of the sector in the region
- Presence of some European standing public and private R&D centres, such as the Candiolo Institute for Cancer Treatment and the Turin Molecular Biotechnology Centre
- One healthcare cluster: bioPmed Piemonte Innovation Cluster
- One science and technology park (Bioindustry Park Silvano Fumero) and 4 incubators specialising in biotechnology and life sciences
- Many organisations work together for the development of life sciences in Piemonte: science and technology parks, bank foundations (Compagnia di San Paolo and Fondazione CRT), public and private research and training institutions, clinical institutes
- 2 seed capital companies investing on life sciences:
 - Eporgen Venture**
www.eporgen.com
first Italian company, entirely funded by private investors, dedicated to seed capital investments. Its mission is to identify and select innovative projects in life sciences area
 - Piemontech**
www.piemontech.it
provides with venture capital the most promising Piemonte-based companies operating in the sectors of ICT, biotechnologies, biomedics, advanced mechanics, energy, innovative and high value-added services.



Key players

Presence of major local actors in life sciences in Piemonte:

ABC Farmaceutici

www.abcfarmaceutici.it
Italian pharmaceutical group committed to research, development, manufacturing and commercialisation of pharmaceutical products and active ingredients. The plant is a modern example of high technology in the pharmaceutical manufacturing field.

Bracco Imaging

www.braccoimaging.com
International group active in the healthcare sector through Bracco Imaging (diagnostic imaging), Pharma (prescription and over the counter drugs), Acist Medical Systems (advanced injection systems, USA), and Centro Diagnostico Italiano, diagnostic clinic in Milano.

DiaSorin

www.diasorin.com
Originated as a diagnostic vision of Sorin Biomedica S.p.A.. Diasorin Group develops, produces, and distributes immunoreagent kits for clinical diagnostics. The mission is to contribute to the improvement of healthcare by bringing to market diagnostic tests that can better orient medical decisions, while curbing public healthcare costs.

Merck Serono

www.merckserono.com
A fully integrated preclinical and early clinical development structure covering different stages of drug development. The centre is organised around 6 major scientific areas: toxicology and reproductive toxicology, general & safety pharmacology, PK/PD, bioanalytical science, biomarkers, GMP biological quality control.

Sanofi

www.sanofi.it
Sanofi has core strengths in the field of healthcare with seven growth platforms: diabetes solutions, human vaccines, innovative drugs, consumer healthcare, emerging markets, animal health and the new Genzyme. In Piemonte Sanofi owns an establishment dedicated to the production of active and intermediate principles of drug industry.

Sicor (Società Italiana Corticosteroidi)

www.tevapharm.com
A wholly-owned subsidiary of Teva, global generic pharmaceuticals leader. Teva is specialised in the development, production and marketing of a wide range of generic and branded products, as well as active pharmaceutical ingredients (API). Sicor is focused in the production of particularly active molecules, including anticancer molecules and different steroids.

Sorin Biomedica Cardio

www.sorin.com
The operative company of Sorin Group

which operates in the heart valves segment. For more than 30 years, it has been active in the market with a complete portfolio of last generation mechanical, tissue and repair heart valve devices.

Takeda Italia Farmaceutici

www.takeda.it
Research-based global company whose main focus is on pharmaceuticals. Takeda discovers, develops, manufactures and markets a broad range of superior pharmaceutical products to strive toward better health for individuals and progress in medicine.

University incubators

2i3t

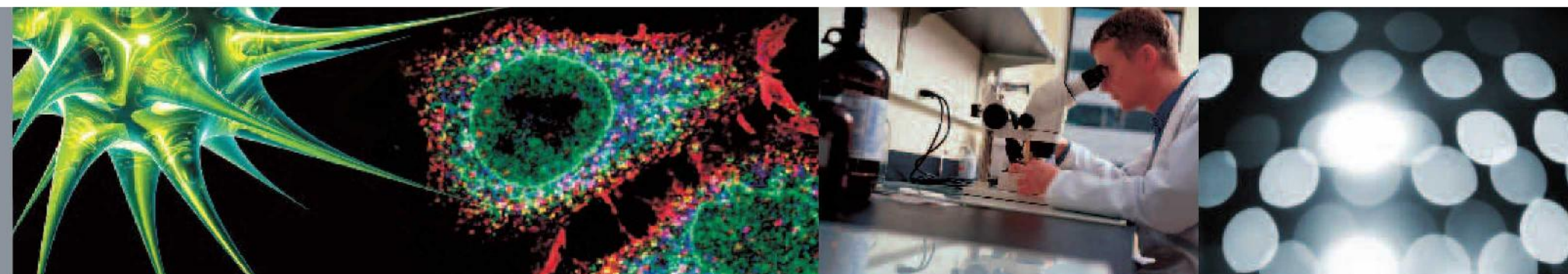
www.2i3t.it
Two technology incubators of the Università di Torino, specialising in the chemistry-pharmaceuticals and biotechnology fields, provide start-ups with equipped labs and cutting edge shared facilities.

I3P

www.i3p.it
Innovative Enterprise Incubator of the Politecnico di Torino, promotes and supports the creation of hi-tech enterprises, building on the innovative potential developed in research institutions across the territory.

Enne3

www.enne3.it
University Enterprise Incubator, located in Novara, works to promote and develop technologically innovative business projects, with particular attention to the territory of Eastern Piemonte.



Scientific base

Università di Torino (www.unito.it) and **Università Piemonte Orientale** (www.unipmn.it), with their scientific departments and with the **Interfaculty Biotechnology School** (<http://biotec.campusnet.unito.it>) represent a group of centres of scientific competency of absolute excellence in the field of human health, food and agriculture. The medical diagnostics, biosensoristics and nanotechnologies research centres of **Università di Torino** are among the best research centres in Italy. The departments and centres of the **Università Piemonte Orientale** offer several facilities and services for chemical and biological research, while the research activities of the Department of Pharmaceutical Sciences embrace most levels of pharmaceutical analysis.

The **Politecnico di Torino** (www.polito.it) ensures the convergence of the different technologies, through research activities of its different departments, in particular: DISAT-Department of Applied Science and Technology, DIMEAS-Department of Mechanical and Aerospace Engineering, DET-Department of Electronics and Telecommunications. Furthermore, at the Politecnico there is a graduate programme in Biomedical Engineering.

Technology transfer

A network of 6 science and technology parks, together with the business incubators, contribute to the technology transfer system in Piemonte. In particular, the Environment Park (www.envipark.com) is the seat of Clean NT Lab (www.cleanntlab.com) which conducts research on innovative coatings, while Tecnogrande (www.tecnogrande.it) develops technologies regarding the production, characterisation and pre-industrialisation in its own Nanolab.



BioIndustry Park Silvano Fumero

www.bioindustrypark.eu
The BioIndustry Park, based near Torino and fully operative since 1998, promotes and develops research in biotechnologies and life sciences, hosting enterprises of the chemical, pharmaceutical,

diagnostic, bioengineering and information science fields. It offers research facilities, scientific and services through its own laboratory LIMA and its CRÖ, ABLE Biosciences. Bracco Imaging set up its own Research Center in the Park, a unique facility in the Italian life sciences industry. In addition, through its Discovery Bioincubator, Bioindustry Park offers to young companies active in the high-tech sectors a full package of services that facilitate them in the start-up and spin-off phases. The incubator is run with the support of Piemonte Regional Government in cooperation with Eporgen Venture. Since 2009, Bioindustry Park has been the managing company of bioPmed Cluster.

IFE Innovation Front End

www.innovationfrontend.eu
The Innovation Front End (IFE) is the special entry point for companies that want to get in touch with the Politecnico di Torino and Istituto Superiore Mario Boella. Working with the Research and Technology Transfer Area of the Politecnico, it identifies, acknowledges and interprets the research and innovation requirements from the world of business and the public and private operators. Furthermore IFE orients towards R&D services, counselling, testing and analysis.

Research excellence

Oncology, immunology, central nervous system, proteomics, bioengineering, bioinformatics

Bioindustry Park LIMA laboratory

www.bioindustrypark.eu
LIMA-Integrated Advanced Methodology Laboratory is organized as a multidisciplinary technology platform. LIMA provides state of the art services and performs exploitation of scientific results in the fields of chemistry, molecular biology, proteomics and bioinformatics. LIMA realizes activities of applied research, technology transfer and training for young researchers.

Cavalieri Ottolenghi Foundation

www.ottolenghi.unito.it
The Foundation performs research of excellence in basic neurosciences oriented towards the prevention, diagnostics, and cure of neurological disorders. It also studies the molecular mechanisms that regulate normal nerve growth and nerve damage and repair, and investigate on the molecular mechanisms of neuronal ageing, and how normal ageing is affected in diseases like Alzheimer. NICO is the Neuroscience Institute of the Cavalieri Ottolenghi Foundation.

Centre of Excellence in Preclinical Imaging (CEIP) - Università di Torino

The Centre, located inside the Bioindustry Park, offers universities, research centres and companies know-how and methodologies based on imaging techniques in order to facilitate and speed up the development of new diagnostic and therapeutic solutions. CEIP is positioned in pre-clinical imaging and image processing with facilities and expertise covering all imaging modalities.

CNR-National Research Council

www.area.to.cnr.it
At regional level, CNR offers a set of R&D laboratories with over 160 researchers, specialising mainly in phytovirology, proteomics and agro-food, immunogenetics and oncology, mycology. Some Institutes located in Piemonte: ISTEC-Institute of Science and Technology for Ceramics, IVV-Institute of plant virology and ISPA-Institute of sciences of food production.

Micro and nanotechnologies know-how

Latemar

www.latemar.polito.it
focuses on the development of advanced devices for diagnostics and therapeutics in the biomedical, pharmacological and food fields, in particular for DNA, RNA, proteins, molecular and cells analysis.

NIS - Nanostructured Interfaces and Surfaces

www.nis.unito.it
performs basic research and offers applied research services.

DISMIC - Department of Materials Science and Chemical Engineering
www.dismic.polito.it

Nano-SiSTeMI

www.centronanosistemi.it
ISTEC - Institute of Science and Technology for Ceramics
www.istec.cnr.it

INRIM - National Institute of Metrological Research
www.inrim.it

Edo Tempia Foundation

www.fondazionetempia.org
The non-profit institution focuses on the study of genic expression in tumoral tissues. The pharmacogenomics research lab is based on the availability of state of the art microarrays technology and activities are run both for the use of microarrays techniques in preclinical studies and for the study of molecular profile of tumours in order to improve diagnosis.

HuGeF-Human Genetics Foundation Turin

www.hugef-torino.org
A private non-profit institution established in November 2007 by the Compagnia di San Paolo, the Università di Torino and the Politecnico di Torino. The Foundation aims at developing research of excellence and post-graduate training in the field of human genetics, genomics and proteomics, creating synergies with national and international projects and attracting talents along with the strengthening of local skills.

INRIM - National Institute of Metrological Research

www.inrim.it
INRIM is the national public body with the task of carrying out and promoting scientific research in metrology. Its research activities in measurement science, materials science and innovative technologies are recognised at worldwide level.

IRCC-Institute for Cancer Research and Treatment

www.ircc.it
IRCC, a private non-profit institution, has the mission to make a significant contribution to fight cancer by understanding the basics and providing optimal diagnostic and therapeutic services. It hosts 2 divisions and 4 laboratories with clinical facilities and over 100 international researchers. IRCC houses one of the five Italian centers for advanced scientific research established in 1997 by the G. Armenise - Harvard Foundation, devoted to the study of signal transduction in normal and cancer cells.

LISIN

www.lisin.polito.it
The Department of Electronics is home to the Laboratory for Engineering of the Neuromuscular System and Motor Rehabilitation. It focuses on 3 main areas: hardware and software design, which provides prototypes of biomedical equipment and promotes technological transfer towards partner companies for final engineering and small series production; signal processing and modelling, providing the mathematical tools for the simulation, interpretation and extraction of information from the EMG signals; basic physiology and clinical applications.

MBC - Molecular Biotechnology Center

www.mbcunito.it
The MBC was inaugurated in 2006 with the aim of unifying the diverse biotechnology research groups of the Università di Torino, in order to create a centre of excellence for interdisciplinary teaching. The MBC offers advanced facilities for teaching and research activities. Here, high technology structures work actively both for technological transfer and for the development of new entrepreneurial ideas.

NIT-Neuroscience Institute of Torino

www.centronit.unito.it
The Institute promotes and runs experimental, theoretical and applied research in the field of the neurosciences, from the study of the cellular and molecular bases of the nervous system to the analysis of advanced integrative and mental activity functions, in normal and pathological conditions.

Oncology Department

Ospedale Molinette, Torino

www.molinette.piemonte.it
The department runs research activities thanks to the interaction among various medical, surgical and diagnostic specialisations of cancer radiology treatment and evaluation by epidemiologists. Most of these activities are run within the Centro Oncologico Ematologico Subalpino (C.O.E.S.). The same centre also houses the Centro di Ricerca di Medicina Sperimentale (C.E.R.M.S.) where basic and translational researches are aimed at various sectors.

Tera Foundation

www.tera.it
Tera develops radiotherapy techniques based on the use of hadron particles and applications of physics and informatics to medicine and biology. Hadrontherapy makes use of beams of protons (hydrogen ions), carbon ions and neutrons.

The ensemble of clinical facilities, including university ones, makes it possible to conduct clinical trials of high quality level. The over 80 hospitals with 20,000 beds can potentially act as clinical network in strong connection with research institutions.