



Biotech in Italy:
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THE PIEDMONT BIOTECHNOLOGY CLUSTER



GENERAL DATA

Technological Vocation	<i>Cell and molecular technologies, Molecular diagnostic, Imaging, Converging technologies</i>
Locations	Piedmont Region
Region	Piedmont
Main Players of the Area	<ul style="list-style-type: none"> ■ <i>Piedmont Region</i> ■ <i>Turin Province</i> ■ <i>Turin Chamber of Commerce</i> ■ <i>Piedmont Agency for Investments, Export and Tourism</i> ■ <i>Universities</i> <ul style="list-style-type: none"> ○ <i>University of Turin</i> ○ <i>University of Eastern Piedmont "Amedeo Avogadro"</i> ○ <i>Politecnico di Turin</i> ○ <i>University of Gastronomic Sciences</i> ■ <i>Science and Technology Parks</i> <ul style="list-style-type: none"> ○ <i>Bioindustry Park Silvano Fumero</i> ○ <i>Environment Park</i> ○ <i>PST della Valle Scrivia Tecnogranda</i> ○ <i>Virtual Reality and Multi Media Park</i> ■ <i>Incubators</i> <ul style="list-style-type: none"> ○ <i>I3P – Turin Polytechnic</i> ○ <i>2I3T – Turin University</i> ○ <i>Enne3 – Eastern Piedmont University</i> ○ <i>Discovery – Bioindustry Park (private)</i>



	<ul style="list-style-type: none">○ <i>TECNOincubatore – Tecnogrande</i>○ <i>Incubatore del Tecnoparco del Lago Maggiore</i>○ <i>Univer</i>■ <i>Innovation Clusters</i><ul style="list-style-type: none">○ <i>Food and agriculture</i>○ <i>bioPmed - Biotechnology and medtech</i>○ <i>Sustainable Chemistry</i>○ <i>Digital creativity and multimedia</i>○ <i>Polibre - Renewable energy and bio-fuels</i>○ <i>Enermhy - Renewable energy and Mini hydro power</i>○ <i>Plant, systems and components for renewable energy</i>○ <i>Polo ICT - Information & Communication Technology</i>○ <i>MESAP - Mechatronics and Advanced Production Systems</i>○ <i>New Materials</i>○ <i>Polight - Sustainable building and hydrogen technology</i>○ <i>Po.in.tex. – Textiles</i>○ <i>Aerospace District</i>■ <i>Research Centres</i><ul style="list-style-type: none">○ <i>CNR</i>○ <i>IRCC - Istituto per la Ricerca sul Cancro</i>○ <i>MBC - Molecular Biotechnology Center</i> http://www.unito.it/unitoWAR/appmanager/unito/home_en?_nfpb=true○ <i>HuGeF - Human Genetics Foundation</i>○ <i>ISMB - Istituto Superiore Mario Boella</i>○ <i>Consorzio Proplast</i>○ <i>RTM</i>○ <i>Donegani - ENI</i>■ <i>Big Players</i><ul style="list-style-type: none">○ <i>Abbott</i>○ <i>AB Sciex</i>○ <i>Agilent Technologies</i>
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	<ul style="list-style-type: none">○ <i>Bracco</i>○ <i>DiaSorin</i>○ <i>Merck Serono</i>○ <i>Sanofi Aventis</i>○ <i>Sorin Group Solvay</i>○ <i>Takeda Italia Farmaceutici</i>○ <i>TEVA/SICOR</i>○ <i>UCB</i> <p>■ <i>Community of around 300 companies active in Life Sciences fields; around 200 specialised in health care fields 67 of such organizations are the bioPmed core members (www.Piedmontbiosciences.org)</i></p>
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TECHNOLOGICAL VOCATION

Italy represents 15% of European biotech companies, and the Italian pharmaceutical market is the world's sixth: in this scenario, Piedmont ranks as a region at the forefront in life sciences and biotechnologies. Piedmont, first in Italy in terms of capacity for collaboration between universities and industries, is strongly active in the development of research projects thanks to the partnership between public and private research centres, SMEs, multinational groups and academic institutions. Moreover, the strong skills existing in Piedmont in sectors such as ICT, electronics and nanotechnologies have favoured the development of significant results and expertise in bioinformatics, diagnostics and biomedical equipment.

The network of research centres, multi-national companies and SMEs, is a cluster of innovation, education and technology transfer supporting such centres, the core of a strong, interlinked system. A system that enables Piedmont to offer itself as a powerful strategic partner, not only for developing joint research projects, but also as a place to find scientific and industrial partners and to set up a business. With these requirements, Piedmont ranks high in the European scene. Its proximity to other highly-developed European regions, such as Lombardy in Italy and Rhône-Alpes in France, is yet another plus for Piedmont, being an ideal connection between the two areas, for widespread, synergic and shared development.

With its POR-FESR 2007-2013 programme, the Piedmont Regional Authority promoted the setting up of twelve Innovation Clusters in twelve different technological areas, and appointed Managing Bodies, chosen from bids received in a dedicated call for tenders.

The Clusters set up by the Piedmont Regional Authority, with their field of interest, are:

- Food and agriculture;



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- Biotechnology and medtech - bioPmed;
- Sustainable chemistry;
- Digital creativity and multimedia;
- Renewable energy and bio-fuels - Polibre;
- Renewable energy and Mini hydro power - Enermhy;
- Plant, systems and components for renewable energy;
- Information & Communication Technology - Polo ICT;
- Mechatronics and Advanced Production Systems - MESAP;
- New Materials;
- Sustainable building and hydrogen technology - Polight;
- Textiles - Po.in.tex.

bioPmed is the innovation cluster dedicated to bio and medical technologies (health technologies) created thanks to the participation of Piedmont Region. It is based on a community of around 300 companies, 3 universities and different research centers, foundations and associations active in life sciences. It is focused on the development of biotech/pharma and innovative med-tech sectors at territorial level targeting use of new technologies to area of applications that can provide solutions to unmet market needs.

In its first stage of growth the bioPmed is focusing on two main technology trends and two main lines of development (applications). From the technological viewpoint, the subdivision is based on the idea of putting together “wet” technologies (such as molecular and cell biology, innovative diagnostic techniques, agents for imaging, etc.) classified in the CMDI – CellMolDiagIm technology trend – and “hard” technologies (including new materials, electronics, information science, precision mechanics, microfluidics, nanotechnology etc) under the TecnInn technology trend.

Each trend is then subdivided into two application areas or development lines:

A) the first, called HMNA, concerns fields with high medical need, which include oncology, cardiovascular, autoimmune and inflammatory sectors, and those with a strong need for innovation (e.g. orthopaedics);

B) the second, NdHCA, concerns sectors not directly connected with human health, that is market needs related to products or processes that may indirectly lead to benefits in the health care area (for example, instruments, innovative food products with effects on human health, research kits, etc.).

The development lines identified by the aggregate from the concentration of enterprises and research centres, were assessed and shared with the Piedmont Regional Authority to allow the subsequent project building on regional funding for research and development.



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New technologies for pharma, diagnostics and biomedical – Innovative Cell and Molecular Therapies, molecular diagnostic and imaging - CellMoDiagIm - CMDI

In the region some unique expertise can be found, widely recognized also at international level. In the field of image visualisation technologies aimed at the development of radiopharmaceuticals or contrast agents, we can find companies whose research themes are “hot” on the international scenario, thus confirming the presence of state of the art scientific expertise in the area.

In particular, in the field of molecular imaging and especially in the pre-clinical, Piedmont has world class level expertise, through the presence of leading multinational companies (Bracco Imaging, AAA), academic skills in both the development of new contrast agents and both in the management of pre-clinical tests (CEIP) and also through the presence of SMEs operating in interesting niche markets (Ephoran, i3med, etc.). In this sense, the regional system, as dimensionally small, has all the elements of the value chain and presents itself as an element of regional competitiveness. As for the complementary and synergistic molecular diagnostics field, competences and skills of absolute value exist in universities, in particular on issues related to autoimmune diseases, oncology and neurodegenerative diseases and also embedded in a series of small and medium-large companies (DiaSorin, Notopharm, Astra , Etc.).

At regional level another element of great interest is the emergence of converging interests, from industry and science, on cell therapy upheld both by the emergence of innovative start-ups (eg Procelltech) and secondly on the implementation of the Cell Factory in the Molecular Biotechnology Center in the University of Turin.

Moreover the industry-science research project carried on in these last years will allow to provide the local industry with state of the art knowledge on the development of new diagnostic tools and methodologies, with the main application in the cardiovascular, oncology, human infectious and neurodegenerative diseases fields.

Even the skills in the area of cellular therapies and identification of biological markers of stem cells is of interest as an element of perspective and uniqueness of local context, especially for existing and potential synergies with the business environment. In the area of molecular diagnostics and imaging it is possible to identify innovative paths that - starting from the research expertise - may provide the local business in terms of competitive advantage. The establishment of diagnostic platforms as powerful analytical tools in molecular and cellular biology, will bring new skills aimed at pharmaceutical companies, research laboratories and SMEs specialized in the in vitro study of potential toxic effects of drugs. In the field of neurodegenerative diseases, for example, diagnostic electrophysiological study focused on neural networks and / or other electrically excitable cells may find large use in the in vitro study for the pharmaceutical field.

The creation of new instruments and diagnostic kits as well as the development of new contrast agents for magnetic resonance imaging appear to be the two lines into which the local available technology and expertise better fit, with very promising effects on the local industry.



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Innovative technologies and services for biomedical, biotechnology and applications not directly human health care – TECNINN

Innovative technologies for the biomedical sector and the impact of these technologies in areas not strictly health care, provide real opportunities for development. We are dealing with varied technology platforms and product technologies and process, interrelated and mutually reinforcing.

This development trend of the local cluster sets as its main goal the creation of technology platforms where different skills, from areas not specifically biotech, can gather and that through this connection can express their potential in the development of medical devices and instrumentation for biomedical applications. These are skills / sectors whose merger can generate an integrated approach to science and technology: in particular, dealing with human healthcare we can recognize as “converging technologies” 4 techno-scientific areas:

- (a) nanoscience and nanotechnology;
- (b) biotechnology and biomedicine, including genetic engineering;
- (c) information technology, including advanced computing and communication;
- (d) cognitive science, including cognitive neuroscience.

The acknowledged acronym of them is NBIC: the idea is that, during their development, these four areas will merge, breaking down the barriers between apparently diverse areas, but that at their interface have many points of contact, which can generate new technologies and products for industrial applications. With proper attention to ethical and social needs, these converging technologies could offer enormous improvements in human capacity, social, national productivity and quality of life.

Application on high medical need diseased

The Piedmont Region - in terms of technological expertise in the area - is effectively part in this new technological environment. Research excellences exist, mainly in the field of innovative materials with high biocompatibility, electronics, micromechanics, nanotechnology and ICT. There is a fabric of specialized small and large companies that can represent the entire value creation chain, from design to sale. So, there is a system that prospectively can feed self-sustainable growth processes, in addition to which there are also niche markets (eg, orthopedic and prosthetic dentistry) that are unique in the region and that are extremely interesting, also as players on international markets.

Application on high medical need diseased

The market sectors taken as a reference here are the pharmaceuticals and diagnostics ones. The application areas, where these innovative products and services are placed, are identified in particular in cancer, in cardiovascular, in inflammation, human infectivity and in the field neurodegenerative diseases.

Another objective is represented by the development of new diagnostic solutions and / or treatment for diseases with high medical need. This objective is declined in industry-academia projects



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which, through the use of modern molecular and cellular technologies and innovative approaches in diagnostics and imaging, aim to address the following main topics:

- oncology
- cardiovascular disease
- neurodegenerative diseases
- regenerative medicine
- infectious diseases

CLUSTER PRESENTATION

In Piedmont companies are based on an integrated system of 6 science and technology parks (one of which dedicated only to Life Sciences), created to support research and innovation and linked to the academic world, and 12 Innovation Clusters. Together with the business incubators (three specialized in Life Sciences and biotechnology), they are an essential part of the regional system of innovation and technology transfer.

bioPmed (www.biopmed.eu) is the Innovation Cluster for the biotechnology and medtech sectors in Piedmont conceived in the framework of ERDF managed by Piedmont Region.

bioPmed is based on a community of around 300 companies, 3 universities and different research center, foundations and associations active in Life Sciences fields. 67 of such organizations have signed in May 2009 an agreement to create, build, support and animate the local cluster. Such organizations are the core organizations of bioPmed cluster.

The cluster's coordination and management are entrusted to the Bioindustry Park Silvano Fumero (www.bioindustrypark.eu), the science and technology park that has acted as system integrator for the development of Life Sciences in the region, since its inception in 1998.

In line with European provisions, bioPmed's task is to encourage innovative activities and research projects, fostering strong inter-relations among the organisations in the cluster, sharing facilities and exchanging know-how and experience. The Cluster is also an effective promoter of technology transfers, networking and spreading of the information most useful to the players in the sector.

The core Cluster is made up of 67 members with a total of over 3,000 staff (data: December 2010):

- 48 Small or medium-sized enterprises (20 of which are start-ups or spin-offs with less than five years of company life);
- 6 Large companies (1 is the Managing Body);
- 7 Universities or Public research centres;
- 3 Research foundations;
- 3 Associations.



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As regards the sectors of interest, the members can be grouped according to the market of their production, whether physical products, services or outcomes of research; universities have been considered separately:

- 62% Biotechnology;
- 23% Innovative Medtech;
- 10% Converging technologies, Life Sciences Technology platforms;
- 5% University.

Over the years, the Bioindustry Park has launched various European and international projects (e.g. ALPS BIO CLUSTER, BIO-CT, ABC Europe, BioProtech, etc) synergic to the Cluster's work, and has entered into agreements with local, national and international bodies such as the Turin Chamber of Commerce and CEIP (Piedmont Agency for Investments, Export and Tourism), LyonBiopole (France), Bilbao Science Park (Spain), The Technology Centre of New Jersey (USA), Suzhou Biobay (China), FABA (India) etc. Among their strategic targets, these agreements pursue support for company internationalisation, exchange of know-how, competencies and experience, the search for tools and company funding and life-long training.

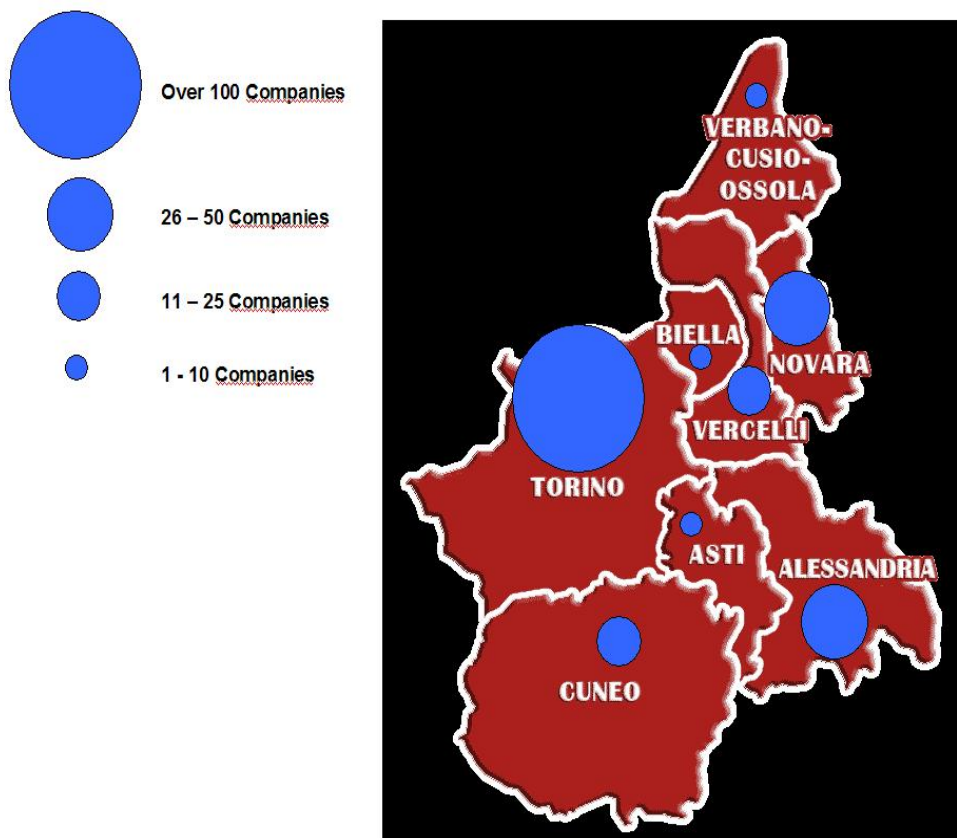
bioPmed, in the framework of the Council of European BioRegions, has stable and active contacts in partnership with the most important innovation clusters and centres of competence in the sector in Europe and other continents.



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CLUSTER MAP



Piedmont Life Sciences cluster – Localisation of companies by Province



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THE BUSINESS SYSTEM

Piedmont is situated in the heart of North-West Italy – an area that contributes to 32% of the Italian GDP, 41% of exports and 50% of imports – in a strategic position between Northern Europe and the Mediterranean Basin, at the crossroads of two main axes of European development: a position that guarantees ready accessibility for goods and people. It has an area of 25,399 sq.km. and a population of 4.4 million inhabitants.

As the leading region in Italy for private investment in Research and Development (1.8% of the GDP in investments in R&D, 80% of which from the private sector) Piedmont offers a mix of skills and businesses: automotive, design, robotics, information and communication technology, aerospace, food and agriculture, textiles, tourism, cinema and multimedia, alongside emerging sectors involving bio - and nanotechnology, intelligent mobility, new materials and renewable energy. Piedmont is also one of Europe's most important areas, as can be seen by the technological balance of payments, showing the capability of exporting innovative services and know-how, with a credit balance in excess of 330 million Euros, and receipts almost three times the payments.

Piedmont is also the second region in Italy for the number of biotech companies and among the Piedmont firms, approximately 300 work in the Life Sciences and medtech sectors (including related services): out of these, over 130 – mainly SMEs – can be defined “Life Sciences” in the strictest sense of the term, with over 6,000 employees. There are over 10.000 companies working in Biotech, ICT, Mechatronics, New Materials (Converging Technologies). The analysis of the size of the companies underlines the considerable presence of small and medium companies: the big companies are mainly subsidiaries or laboratories of multinational companies.

The list is indicative and non exhaustive: the complete list of companies operating in the field of green/white/red biotech of the Piedmont Life Sciences community, is available at www.Piedmontbiosciences.org



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Company	Technologies/Applications/ Products	Web site
A. Costantino & C. S.p.A.	It is today numbered among the world's largest producers of raw materials of animal and vegetable origin for top-level pharmaceutical use. Its range of production, today comprising the categories enzymes for pharmaceutical and industrial use, animal organ extracts for pharmaceutical use, peptones and protein hydrolysates for industrial fermentation and for microbiology.	www.costantino.it
AB SCIEX	A global leader in the development of best-in-class technologies that help answer complex scientific challenges and improve their world. It creates scientific instrumentation, software and services for the life science, clinical research and industrial markets, empowering its customers with technologies that are used in drug discovery and manufacturing, food and environmental safety, and clinical research.	www.absciex.com



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<p>Abbott Products S.p.A. (ex Solvay Pharma S.p.A.)</p>	<p>Pharmaceutical company. It holds a strong market position in carefully selected therapeutic areas (mental health, gastroenterology, gynecology / andrology, cardiology) and has a well diversified portfolio of products in these areas. Accelerated growth is based on development of own research products, acquisition of products and medium-sized companies, expanding sales forces and geographic markets and raising the output and effectiveness of R&D (with partners or alone).</p>	<p>www.abbottgrowth.com</p>
<p>ABC Farmaceutici S.p.A.</p>	<p>It is active in the research, development, production and marketing of pharmacologically active ingredients, ethical drugs, generic drugs and dermocosmetic products. The productive site in San Bernardo d'Ivrea is specialized in the contract manufacturing.</p>	<p>www.abcfarmaceutici.it</p>
<p>Adamantio srl</p>	<p>It is able to offer technological solutions to conservation/restoration problems based on modern techniques of molecular characterization.</p>	<p>www.adamantionet.com</p>



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<p>Advanced Accelerator Applications (AAA)</p>	<p>A spin-off of the European Organization for Nuclear Research (CERN) of Geneva. It is today a European leader in the production of PET (Positron Emission Tomography) radiopharmaceuticals and is developing innovative products and technologies in the Nuclear Medicine field, with particular emphasis on cancer therapy.</p>	<p>www.adacap.com</p>
<p>Aethia S.r.l.</p>	<p>It provides systems and services to industrial and academic groups of research that require high computing power. It offers solutions for high performance computing, Linux clusters, parallel computing and bioinformatics.</p>	<p>www.aethia.com</p>
<p>AFOM Medical</p>	<p>Its products have exclusive characteristics, effective formulas in line with the requirements of the modern consumer. Specialities are products made of natural active principles. The industry realised drugs with news techniques, strict controls; from the choice of the raw materials to the final packaging in order to guarantee quality, emergency and purity.</p>	<p>www.anticafarmacia.it</p>



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<p>Agilent Technologies Vacuum Products Division</p>	<p>Throughout a very wide range of industries, from glass coating to medical equipment, manufacturers share a need for robust, reliable, production-friendly vacuum technologies. Focusing on the total cost of ownership, Varian, Inc. continues to deliver innovative vacuum solutions that maximize throughput, tolerate varying operating conditions, and simplify maintenance, helping to assure maximum uptime and efficiency.</p>	<p>www.varianinc.com</p>
<p>AgriNewTech srl</p>	<p>A spin-off of the University of Turin in the field of agricultural and environmental biotechnologies. It offers services and products for the protection of agro-environmental resources, the increase of food safety and food security and the valorisation of biomasses through the use of biotechnology applied to agriculture and the environment. It is also involved in learning activities and in the organization of events relating to agro-environmental and agro-food issues and offers advice on planning, management and organization of demonstration and divulgation activities and for transferring research results in the agro-environmental field.</p>	<p>www.agrinewtech.com</p>



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<p>Agrolabo S.p.a.</p>	<p>A research-based company with core competencies in the fields of livestock and companion animals' health and nutrition. The business is devoted to research, developing, manufacturing and marketing innovative diagnostic, therapeutic.</p>	<p>www.agrolabo.it</p>
<p>Alltox</p>	<p>It provides in vitro testing for investigating the sensitization potential of finished cosmetic and toiletry products. It is the joint venture between Abich and the Laboratory of Cellular and Molecular Allergology of the Department of Biological and Technological Research at the San Raffaele Biomedical Science Park.</p>	<p>www.alltox.it</p>
<p>AMNOL Chimica Biologica S.r.l.</p>	<p>It has the aim of conducting research activities in the biochemical, biotechnological and pharmaceutical areas. It has extended its activities to include the manufacture, commercialisation, import and export of chemical, pharmaceutical and biological products, together with patents, formulas and trademarks concerning the biochemical, biotechnological, pharmaceutical and derma-cosmetic area.</p>	<p>www.amnol.it</p>
<p>ANADIAG ITALIA s.r.l.</p>	<p>The company offers a full support for evaluation, registration and commercial development of agrochemical products and fertilizers.</p>	<p>www.anadiag.it</p>



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APAvadis Biotechnologies Srl	<p>It explores new technological tools to specifically target tumors through the bloodstream. It is now developing two main projects, for which the company holds exclusive intellectual property rights. It is developing products for innovative diagnostic and therapeutic approaches. It was started as part of the Discovery project. In 2007 it was awarded by MIP in the competition Premia l'Impresa, as the most innovative Piedmont enterprise created in 2006.</p>	<p>www.apavadis.com</p>
ASTRA s.r.l.	<p>In its research and production facilities it manufactures in-vitro diagnostic use devices for: Autoimmune disease ifa and elisa, Helicobacter pylori antigen, Bence jones proteinuria rapid assays, Radial immunodiffusion plates (RID).</p>	<p>www.astradiagnostici.com</p>
BF Pharma S.r.l.	<p>It develops and manufactures phytotherapeutiic and nutraceutical products. Its main field of research concerns the prevention and treatments of dislipidemiae by means of natural products. It is also into manufacturing of pharmaceuticals.</p>	<p>www.bfpharma.com</p>
Bioanswers s.a.s.	<p>It is active in agro-food industry. It studies the optimization of fermentation and the behavior of the agents involved. It also produces some diagnostic tools for drugs.</p>	<p>www.bioanswers.it</p>



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<p>BIOCI Produzione Diagnostici</p>	<p>It designs and manufactures diagnostic products for research laboratories. It specializes in immunology and particularly in the techniques that characterize proteins both qualitatively and quantitatively.</p>	<p>www.bioci.it</p>
<p>BioDigitalValley S.r.l.</p>	<p>A start-up dedicated to invent, develop and commercialize new solutions for bio-research, e-health and drug discovery by using bioinformatics techniques. The goal is to place the RGI Group in the mainstream of bioinformatics, then being in a consolidated position on the market while benefiting the potential consumer with new, advanced solutions. It is currently marketing a new data mining platform, ProteinQuest™, suited for the discovery process in Life Sciences.</p>	<p>www.biodigitalvalley.com</p>



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<p>Biodiversity S.p.a.</p>	<p>The business model is based on the linked integration among advanced diagnostic services and R&D activities in the defined areas. The main mission is based on developing, using and producing new technologies and products to be used in molecular analysis and diagnostics as well as on research activities in different advanced fields, such as genomics, proteomics, biotechnology and nanotechnology, mainly in: biomedical and clinical areas; veterinary and zootechnics; agri-food area; industrial microbiology. Over the years, It has gained a leading position in the molecular diagnostics market, providing integrated solutions to any other third party involved in this reference area.</p>	<p>www.biodiv.it</p>
<p>Biohealth Italia s.r.l.</p>	<p>The company was founded in 2000, with headquarters in Turin, with the aim of becoming a preferential partner for the Urology and Nephrology specialist in the treatment of kidney stones. It has also developed software for the calculation and graphic representation of urinary supersaturation and relative lithogenic risk.</p>	<p>www.biohealth.it</p>



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<p>Bioindustria L.I.M.</p>	<p>The activities are production of large volume I.V. solutions, generics and manufacturing and marketing of bulk active ingredients for the pharmaceutical industry.</p>	<p>www.bioindustria.it</p>
<p>Bioindustry Park Silvano Fumero S.p.A.</p>	<p>A Science & Technology Park. Its mission is to promote and develop biotechnological research hosting enterprises who want to set up research and pilot production in the chemical, pharmaceutical, diagnostic, veterinary, food, cosmetic, bioengineering and information science fields.</p>	<p>www.bioindustryark.eu</p>
<p>BioMan Srl</p>	<p>It operates in the fields of research, development and production in the biotechnological fermentation sector. It creates innovative ingredients for functional foods and dietary supplements. Its mission is to develop experimentation and the industrialisation of biotech products, starting from formulation of raw materials up to the production and distribution of the product, when this is economically viable.</p>	<p>www.bioman.it</p>



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Bionicatech s.r.l.	It operates in the field of high-tech biomedical products for applications in orthopaedic surgery, oral implantology, spinal surgery. Its mission includes the design, development, validation, industrialization, and the introduction into the market of highly technological products based on innovative materials, including composites.	www.i3p.it/impres/148
Bionucleon s.r.l.	A drug discovery company with a proprietary technology platform to produce novel oligo-based therapeutics. It is focused on nucleic acid modifications and technologies, an area of increasing importance for scientists in the academic, pharmaceutical, biotechnology and diagnostic markets.	www.bionucleon.com
Biopaint Srl	It was founded with the objective of identifying and developing new ingredients to add to antifouling paints for the naval and sailing industry.	www.biopaint.it
Biosearch Ambiente srl	An independent and private company which offers services for the environment. The main activity is the research and application of biological techniques to the remediation of contaminated matrices.	www.ricercambiente.org/biosearch.htm



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<p>Biotechware srl</p>	<p>A new company born from a business idea of Alessandro Sappia and Enrico Manzini. They both have worked for companies providing cardiac monitoring telemedicine services, and they began considering to set up their own company with the aim of developing an innovative products, based on the latest technologies, able to adapt fast to healthcare market deep localization.</p>	<p>www.biotechware.com</p>
<p>Bioteck s.r.l.</p>	<p>The deantigenic systems allow to obtain bone tissues biologically very similar to those of human origin. The first concept taken into consideration for the production of biomaterials is the necessity to produce a material whose reabsorption time equals the time of the formation of the new endogenous bone.</p>	<p>www.bioteck.com</p>
<p>BRACCO IMAGING Spa</p>	<p>Born as a pharmaceuticals trading concern, it developed an independent industrial production and research activity, specializing its R&D capacities in a specific field – that of diagnostic imaging. In Italy, Bracco's Pharmaceuticals Division occupies an important position in its sector, particularly in the strategically significant areas of gastroenterology, neurology, endocrinology and cardiovascular therapy.</p>	<p>www.braccoimaging.com</p>



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BSA Ambiente Srl	It is engaged in the application of innovative technologies of natural origin (biotechnology) with low environmental impact to reclaim contaminated land and water environments. It is a high profile technological and professional company active in the field of "bioremediation", i.e. biotechnologies for environmental decontamination.	www.bsaplanet.com
Cage Chemicals S.r.l.	It offers research and development programs to institutes, companies that works in biomedical field for Molecular Imaging.	www.cagechemicals.com
CCS Aosta S.r.l.	A society that works with the collaboration of Valle d'Aosta Region in the field of plant health.	www.micosat.it
Chefaro Pharma Italia S.r.l. - Omega Pharma Holding	It is born from Holding Pharma Omega, one important company already present from some years on the whole European druggist panorama, whose numbers, from birth, are always in increase.	www.santangelica.it
Chemessentia SRL	A company mainly focusing on the research and development of processes for the production of Active Pharmaceutical Ingredients (API).	www.chemessentia.it
Chimete s.r.l.	It provides custom synthesis, analytical research and laboratory development of synthetic chemistry processes.	www.chimete.com



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<p>CID S.p.A.</p>	<p>The main objective of CID - Carbostent & Implantable Device is the development of drug eluting stents, in the direction of new drug combination. As future objectives it aims at expanding the international presence and distribution in order to respond the continuous evolution of the sector, while fulfilling the highest standards in quality, reliability and confidence set by the medical class.</p>	<p>http://cidvascular.com</p>
<p>CIE Dentalfarm srl</p>	<p>It has been specializing in the design and production of equipment, accessories and consumables, primarily studied for the dental and goldsmith field and today it has consolidated its presence in the restoration and Industry field, too, proposing specific technical solutions.</p>	<p>www.dentalfarm.it</p>
<p>CIRP - Clinical Industrial Research Park</p>	<p>A biotechnologic park dedicated to the experimentation of products in order to increase the survival of the operated tumor patients. To the plan will participate the Hospital San Giovanni (Turin), the Piedmont Region and other public and private agencies.</p>	<p>www.cirpark.eu</p>



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<p>CORI srl</p>	<p>Main company assets are represented by technical - scientific skills in biotechnology, research and development activities finalized to new systems and diagnostic, based both on DNA amplification technology and on antigen-antibody interaction. It offers to its customers a very interesting product list. Most of the product are IVD in human infectivity field, realized in DNA amplification technology, both qualitative and quantitative procedures and genotyping as well.</p>	<p>N.A.</p>
<p>Creabilis Therapeutics Srl</p>	<p>An emerging European specialty pharmaceutical company focused on dermatology. It discovers, develops and commercialises new medicines for a range of skin disorders.</p>	<p>www.creabilis-sa.com</p>
<p>Cryos srl</p>	<p>Dry ice producing. Ice Blasting Technology.</p>	<p>www.cryos.it</p>
<p>Cyanine Technologies S.p.A.</p>	<p>It was born as a spin-off company of the University of Turin. Chemists, biologists and bioinformatics researchers are involved in the R&D of the Company, sharing their wide experience in the field of luminescent reagents for diagnostics, imaging, nanotechnologies. It has a catalogue of products and offers also solutions tailored to meet specific needs of the customs.</p>	<p>www.cyanine.com</p>
<p>D. ULRICH s.p.a.</p>	<p>Natural and herbal products.</p>	<p>www.paladinpharma.it</p>



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Dea s.r.l.	It works in human rehabilitation, hospital wards and pain therapy field.	www.deaTurin.it
DEATEC s.r.l.	It deals with waste water biological treatment (proprietary processes) and waste and biomass to energy (proprietary processes).	http://xoomer.virgilio.it/deatec
Delos s.r.l.	With Delos Postural Proprioceptive System is possible to create personalized programs of functional rehabilitation, training and prevention or to choose among more than 500 protocols and work-sessions based on the Riva Method that is the visual-proprioceptive activation at high frequency.	www.delos-international.com
DemItalia s.r.l.	A society that projects and markets medical device and systems for walk-analysis. It designs, produces and sells electrical systems. It is an ideal partner in rehabilitation.	www.demitalia.com
DEVERGE' M&M	A pharmaceutical company. It is one of the most interesting in the field of pharmaceuticals and medical devices containing metallic silver micronized specifically for prevention and treatment.	www.deverge.it



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<p>DI.PRO s.a.s.</p>	<p>It is active from 1978 in the medical devices sector, and has worked since then in close relationship with surgeons and bioengineers contributing to the research, development and realization of innovative implantable products. It produces meshes for treatment of hernia, incisional hernia, abdominal wall, pelvic floor defects and female and male urinary incontinence (IUS). It is also present in the in-vitro diagnostic device sector, as the producer of Biotransport.</p>	<p>www.dipromed.eu</p>
<p>DiaSorin s.p.a.</p>	<p>Originated as a diagnostic division of Sorin Biomedica S.p.A.. It develops, produces, and distributes immunoreagent kits for clinical diagnostics. The mission is to contribute to the improvement of health care by bringing to market diagnostic tests that can orient better medical decisions, while curbing public health care costs.</p>	<p>www.diasorin.com</p>
<p>DINAMYCODE s.r.l.</p>	<p>It takes care of research & development in biology, chemistry and physic science; - morphologic and molecular analysis of various biological matrix (vegetables, fungine) and non biological matrix (soil and feeds); - realization and commercialization of products and services, know how, licences and machinery deriving from the research & development activities.</p>	<p>www.dinamycod.it</p>



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<p>Dirivet</p>	<p>A firm of veterinary consulting services. In 2007 it started a collaboration with the Ceip aimed at using magnetic resonance imaging as a diagnostic aid in both research projects in clinical practice.</p>	<p>www.dirivet.it</p>
<p>DOC Medica srl</p>	<p>The company was born on the 1996 with the main center in Biella for the direct selling to the doctors of all how much it can be useful to their profession. It operates on the whole national territory and for that reason, not using a sale net, it sends a catalogue with a run of 35.000 copies to all current and potential customers. Another commercial channel is the direct meeting with customers at the main National Medical congresses of different specialities, where in the stand are exposed the furniture, the equipment and all the material of inherent use.</p>	<p>www.docmedica.it</p>
<p>Dynacren Laboratorio Farmaceutico</p>	<p>Production of patent medicines registered and generic denomination medicines registered in the forms of: pills, comfits, granulates, powders, ointments, suppositories, solutions/suspensions for oral use, solutions/emulsions for external use, microenemas.</p>	<p>www.dynacren.it</p>



<p>ecoBioqual s.r.l</p>	<p>A specialized company, which works in the sector of biology applied to the assessment and protection of the environment, of human health and to the evaluation of the quality of products and industrial processes. It proposes an innovative approach to the study of the environmental quality, using only up-to-date scientific and legal development biological tests.</p>	<p>www.ecobioqual.it</p>
<p>EPHORAN - Multi Imaging Solutions Srl</p>	<p>The mission is to study, develop and pursue the application of imaging technologies in preclinical drug research and development. The available techniques that are used by Ephoran in experimental imaging are those already extensively employed in the clinical setting (e.g. PET, CT, SPECT, MRI, US) and Optical Imaging (visible light and Near Infra Red). Ephoran offers the opportunity to apply a translational pharmacological approach in drug research and development.</p>	<p>www.ephoran-mis.com</p>
<p>EPORGEN VENTURE s.p.a.</p>	<p>An independent organisation based on the involvement of local informal private investors that decided to integrate their resources in one initiative instead to act as single business angels. It offers seed capital funds in order to assure the growth of biotech start-up in the first period of development (24 months).</p>	<p>www.eporgen.com</p>



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<p>EUROINNOVAT s.a.s.</p>	<p>A company strongly involved on biomedic researching and developing of new products and improvements of manufacturing. It is focused in different market approach: - develop and sales of our products by direct marketing - distributions of external products - productions dedicated to OEM.</p>	<p>N.A.</p>
<p>Farmaca International</p>	<p>A Company which has reached an important collocation in the hair products. It offers new services, innovative and guaranteed products, managed with all its reliability and experience.</p>	<p>www.farmaca.com</p>
<p>Farmaceutici Procemsa S.p.A.</p>	<p>It offers services in the production of Food Supplements, Medical Devices and Cosmetics. Procemsa is authorized for the manufacturing and packaging of: MEDICAL PRODUCTS Solids (powders, capsules, tablets, coated-tablets) and oral liquids. NUTRITIONAL SUPPLEMENTS Powders, granulates, capsules, tablets, coated-tablets, liquids. MEDICAL FOODS Powders, granulates, capsules, tablets, coated-tablets, liquids. Packaging in vials, bottles, blisters, sachets (for powders and liquids).</p>	<p>www.procemsa.it</p>
<p>Farmen International Cosmetics Distribution s.p.a</p>	<p>It is engaged in the research, development, production, sale and customer service of cosmetics.</p>	<p>www.farmenspa.com</p>



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Fertirev S.r.l.	A recent addition to the Medestea Internazionale Group. It operates within the sector of pharmaceuticals, biotechnology, food supplements and dermatology, developing highly innovative projects.	www.fertirev.it
FIDES PHARMA S.R.L.	Infectious diseases.	N.A.
Fisioline S.r.l.	Manufacturer of Electro-medical equipment. It operates in the physiotherapy field.	www.fisioline.com
FLEMING RESEARCH S.R.L.	It produces diagnostic devices and carries out analytical services.	www.fleming-research.it
Fondazione Cavalieri Ottolenghi	The major goal is to perform research of excellence in basic neurosciences oriented towards the prevention, diagnostics, and cure of neurological disorders. In accordance with this principle our research focuses on the mechanisms that control normal neuronal maturation and on the defects that take place in mental retardation syndromes.	www.ottolenghi.unito.it



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<p>FONDAZIONE EDO TEMPIA onlus</p>	<p>The main activity of the Laboratory consists in the analysis of the profiles of genetic expression. The goal of the microarrays technique, in the oncologic field, is the discovery of the activity associated to the genes. Genes that can vary from woven to woven, from organ to organ, but also from patient to patient. For this reason, the technique has the potentiality to lead at the location of therapeutic targets and marchers. This can help the pathologist in the diagnosis of the tumor and help the oncologo in the choice of the therapy, for every single patient.</p>	<p>www.fondoedotempia.it</p>
<p>Fondazione per la Ricerca Biomedica ONLUS</p>	<p>The research supported are focused primarily on diseases of the nervous system, cardiovascular system and cancer.</p>	<p>www.forb.unito.it</p>
<p>FONDAZIONE PER LE BIOTECNOLOGIE</p>	<p>A no-profit organisation established for the purpose of enhancing the development of biotechnology and the public appreciation of its role in the modern society. The inception was the development of knowledge, the improvement of training, the support to scientific research on biotechnology applied to the different fields; i.e. medicine, agriculture, industry, environment, conservation of works of art, etc.</p>	<p>www.fobiotech.org</p>



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<p>Fondazione Piedmontse per gli Studi e le ricerche sulle Ustioni</p>	<p>It coordinates experimental and clinical research in relation to the problems of the burn in all its aspects.</p>	<p>www.fondazionePiedmontseustioni.it</p>
<p>FONDAZIONE SALVATORE MAUGERI - Istituto Scientifico di Riabilitazione di Veruno</p>	<p>Biomedical research to direct the identification and validation of new models of functional assessment methodologies, intervention, rehabilitation and clinical management.</p>	<p>www.fsm.it/ist_veruno/index.html</p>
<p>Fondazione TERA</p>	<p>The primary objective is the development of the radiotherapy techniques based on the use of hadron particles and, more generally, of the applications of physics and informatics to medicine and biology.</p>	<p>www.tera.it</p>
<p>Genovax S.r.l.</p>	<p>A biotech company established after a spin-off from the Centre of Excellence for Biomedical Research of the University of Genova, and with the support of Eporgen Venture. The mission is to develop vaccines for chronic diseases, aiming at re-establishing the original physiological profile of the immune system. New therapeutics approaches against Lupus (LES) and autoimmune diseases.</p>	<p>www.genovax.it</p>
<p>GIEFFE Srl</p>	<p>In vitro diagnostic medical devices and medical-surgical. A reference point in the electromedical field in Italy.</p>	<p>www.gieffemedical.com</p>



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<p>Gipharma Srl</p>	<p>The mission is to provide custom pharmaceutical product manufacturing and support services coupling flexibility and customer focus with compliance to the highest quality standards. Biotechnology; production; pharmaceuticals. It can offer a wide range of custom manufacturing and analytical services under GMP requirements.</p>	<p>www.gipharma.com</p>
<p>Glyconova Srl</p>	<p>Glyconova is a startup whose objective is the development of a new approach to the treatment of important diseases based on the inhibition or modification of cell surface glycosaminoglycans.</p>	<p>www.glyconova.com</p>
<p>GRUPPO MOFIN - ALCE s.r.l.</p>	<p>One of the biggest industrial plant in the field of technological aids for food and dairy industry in particular. Its own area of action from technological and commercial field to that of the specific technical assistance given to the dairies. Production technologies and global thecnical assistance to dairies producing any type of cheese.</p>	<p>www.mofinalce.it</p>
<p>Herniamesh srl</p>	<p>An Italian company that produces and sells monofilament polypropylene surgical meshes, for hernia repair and for urogyneacological diseases such as urinary incontinence and pelvic floor deficiencies.</p>	<p>www.herniamesh.com</p>
<p>Horizon Discovery - Turin Labs.</p>	<p>N.A.</p>	<p>www.horizondiscovery.com</p>



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<p>I-See S.r.l.</p>	<p>A high tech start-up operating in the field of Monte Carlo simulations and web-based software. It is an academic Spin-off of the university of Turin. It expertise is result of 10 years experience in the field of simulations, radiation effects and its application in oncologic field within the department of experimental physics and the national institute of nuclear physics in Turin.</p>	<p>www.i-seecomputing.com</p>
<p>I.V. PHARMA S.A.S.</p>	<p>Specialised in elevated technology, it carries out activity of R&D by itself and/or taking advantage of specialize external advice.</p>	<p>N.A.</p>
<p>im3D S.p.A. - Medical Imaging Lab</p>	<p>It designs, develops, produces and markets medical devices intended for early diagnosis in medical imaging. Its mission is to research and develop high-tech innovative solutions in medical imaging for cancer prevention.</p>	<p>www.i-m3d.com</p>
<p>Industrie BORLA SpA</p>	<p>The leader in the manufacturing of plastic medical components. It designs, manufactures, and distributes more than 1,000 components worldwide. It satisfies the Global Medical Market with an extensive standard product offering, and as an exclusive manufacturer of proprietary medical devices.</p>	<p>www.borla.it</p>



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<p>INNOVATE BIOTECHNOLOGY s.r.l.</p>	<p>His innovative characteristics Innovate Biotechnology was established to give to the pharmaceutical, agrochemical and fine chemical companies the technology to develop and implement at pilot scale enzyme-based processes. This technology helps companies discover better routes for the production of key chemical products with the respect of the environment.</p>	<p>www.innovatebiotechnology.com</p>
<p>Intrauma srl</p>	<p>It designs, manufactures and distributes a range of innovative internal fixation devices. Intrauma product range has been designed in collaboration with a number of surgeons and provides an innovative approach to the problems of trauma fixation.</p>	<p>www.intrauma.com</p>
<p>Invento S.r.l.</p>	<p>The strategic mission is to be a high-tech company committed to the development of novel, easy-to-use, analytical procedures for the characterization of complex matrices in the field of bio-medicine, food and material sciences. One of the goals is to offer academic researchers the proper support in developing new applications of FC relaxometry to address major biomedical and industrial problems.</p>	<p>www.invento-lab.com</p>



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<p>IRCC - Institute for Cancer Research and Treatment</p>	<p>A private no-profit institution founded and supported by the Fondazione Piemontese per la Ricerca sul Cancro. Its mission is to make a significant contribution to fight cancer by understanding the basics and by providing optimal diagnostic and therapeutic services.</p>	<p>www.ircc.it</p>
<p>Istituto Candioli Farmaceutici SpA</p>	<p>The product portfolio is divided into two broad arrays: human division and veterinary division. Antiparasitic products for human use have made Candioli market leader for the last sixty years, while dermocosmetics and the more recent nutraceuticals complete the offer on the human side. The veterinary division encompasses products for pets (dogs as well as cats), horses and birds, available at veterinarian pharmacies and pet shops. All the products are widely available throughout Italy and in selected foreign countries.</p>	<p>www.candioli.it</p>
<p>KellSa s.a.s.</p>	<p>To provide consultation and support for optimization of biopharmaceutical and diagnostic R&D projects in Discovery, Pre-Clinical Development and Clinical Development. Services include analysis of projects and strategies, support for recruitment, networking, project partnering and professional training of research teams in unique novel technologies.</p>	<p>www.kellsa.com</p>



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<p>Kléral System Professional</p>	<p>Every day the research and development laboratory is working to develop new products. Its highly skilled technicians work in painstaking synergy to find resources and formulae from the vegetable world, paying attention to product safety and guaranteeing the end consumer professional skills.</p>	<p>www.kleral.com</p>
<p>Laboratori Biomicron srl</p>	<p>Its main aims are design, production and distribution of medical devices and IVD components. The first production line involves microtiter plates having different sections of the well, to perform immunological techniques. In this production, it makes use of a shared company to mold the related details by injection of selected technopolymers. Following this path, it deals with diagnostics in nuclear medicine by producing single-use elements needed in RIA kits.</p>	<p>www.biomicron.it</p>
<p>Laboratorio Chimico Camera Commercio Turin</p>	<p>A no-profit lab that represents the interests of the economic categories and the consumers, offering an analysis service, advising and independent training.</p>	<p>www.lab-to.camcom.it</p>



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<p>LABORATORIO MBT</p>	<p>The Society Molecular Biotechnology Srl (MBT) has been created in order to carry out activity of Research & development of Biotechnologies Applied to food and environment. It turns out of the Clonit Company (development of biotechnologies in the diagnostic sanitary area) relatively to the food field.</p>	<p>www.mbtlab.it</p>
<p>Laboratorio MICRONA di MICRONA S.r.l.</p>	<p>Microbiological studies, activity, stability and safety of cosmetics, medicines, foods.</p>	<p>N.A.</p>
<p>Laboratorio RES PHARMA PH RESEARCH di RES PHARMA PHARMACOLOGICAL RESEARCH S.r.l.</p>	<p>Research and development in biology.</p>	<p>N.A.</p>
<p>Laboratorio SAN GIORGIO FLAVORS di SAN GIORGIO FLAVORS S.p.A.</p>	<p>Analysis of foods and flavors; Synthesis, biosynthesis and the preparation of aromatics and natural extracts, Creation and application of flavorings.</p>	<p>N.A.</p>
<p>LICA srl</p>	<p>A manufacturer of cosmetics & medical aesthetic devices.</p>	<p>www.lica.com</p>
<p>Life and Device</p>	<p>A service provider specialized in studies on cardiovascular implantable prostheses, artificial organs and more widely on biological interfaces.</p>	<p>www.lifeanddevice.com</p>



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<p>LogicaBiomat</p>	<p>It offers consulence to activity of research & development biology chemistry and physics science. It proposes analysis and characterization of substances, by methods of Magnetic Resonance and other analysis; production and commercialization of products deriving from its own activities of research & development; representation of societies operating in the same field and distribution of their products.</p>	<p>www.logicabiomat.com</p>
<p>Manfredi S.r.l.</p>	<p>One of the first European Dental Company to obtain the quality certificate ISO 9001 issued by the German Institute TÜV. 1999: the Easyti System obtain the EC certificate, for the production of dentures in pure titanium, issued by the Scandinavian Institute NIOM.</p>	<p>www.manfredi-saed.it</p>
<p>Marco Antonetto Farmaceutici</p>	<p>In 1913 Marco Antonetto set up a company dedicated to pharmaceutical distribution. In recent times, with the division Dietetici Sohn, in addition to the established pharmaceutical business, Marco Antonetto has turned its attention to products regarding dietary issues, with the aim of improving the quality of life. It became a reference point in on the scene of Italian pharmaceuticals, particularly active in the production of self-medication specialties, for treating gastrointestinal ailments.</p>	<p>www.antonetto.it</p>



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Marco Polo Engineering SpA	Alternative and recovery of biomass.	www.marcopolo-e.com
Mario Zunino & C. S.r.l.	It formulates, designs and manufactures innovative cosmetic products for skin and hair.	www.mariozunino.com
Martin Bauer S.p.A.	Field of functional foods and wellness. Natural products are made with the most innovative technologies.	www.martin-bauer.it
Medestea Research & Production S.p.A.	A drug discovery company developing new drugs and biotechnological products in several therapeutic areas. It is developing a GMP preparation based on mesenchymal stem cells for the allogenic treatment of myocardial infarctions.	www.medestearsearch.it
Medicomp srl	It began his business in the surgical instruments sector and soon known a strong expansion thanks to its specialization in the production of special alloys which titanium and stainless steel.	www.medicomp.it



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<p>Medisan di Cardona dr.ssa Gabriella</p>	<p>It is specialized in the field of the environmental disinfection. In the course of the years, it produced new formulations, recorded to the Ministry of Health, in agreement with the requirements of the market demand, and tried to improve the technologies of production and packaging of liquid SURGICAL GARRISONS MEDICAL. It has collaborators to supplying technical advisings, solutions on measure to the requirements of the own customers.</p>	<p>www.disinfettantimedisan.com</p>
<p>Meditech S.a.s. Medical Research Technology</p>	<p>It provides furnishings, equipment, consumables and reagents for all types of laboratory analysis and research.</p>	<p>www.meditechonline.it</p>
<p>MERCK-SERONO</p>	<p>Merck-Serono Discovery Pharmacology is focused on four main therapeutic areas, Reproductive Health, Neurology, Immunology and Metabolic Endocrinology. Research is carried out at all three sites, in Italy near Bioindustry Park, Geneva (SPRI) and Boston (SRBI).</p>	<p>www.merckserono.it</p>
<p>Messer Medical S.r.l.</p>	<p>The Messer Group is a family-owned industrial gas enterprise with a long-standing tradition. Business relating to the medical sector. Provider of technology process and engineering expertise in supercritical fluids area.</p>	<p>www.messeritalia.it</p>



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<p>ML Blotech S.r.L.</p>	<p>Start up focused on the development of innovative decontamination approaches in health care dedicated sites</p>	<p>N.A.</p>
<p>Micromedica s.r.l.</p>	<p>Italian firm active in the field of medical equipment and hospital services. It actively develops PACS (Picture Archiving & Communication System) solutions. It currently provides hardware and software products to many healthcare institutions (hospitals, clinics, etc.) to effectively manage and use medical images.</p>	<p>www.micromedica.it</p>
<p>MONTEGEN</p>	<p>Vision: To be a constantly relevant bio-business solutions organization, integrating research, technology, products, and services that sustain the today client's needs and invents global biotech solutions for the tomorrow client's requests.</p>	<p>www.montegen.com</p>
<p>Mybatec SRL</p>	<p>It is active in development, production and sale of products for phytodiagnostic, the biodepuration and biofertilizers. It is developing innovative products for agriculture and environmental protection through R&D programs.</p>	<p>www.mybatec.eu</p>



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<p>NANOBIODESIGN (NBD)</p>	<p>A spinout company from Imperial College London. It has acquired the exclusive rights to four patents emanating from the research of Prof. Gianfranco Gilardi and his group. It is developing a range of tools for the pharmaceutical industry based upon its patented P450 technology with the goal of producing a high throughput screening test.</p>	<p>N.A.</p>
<p>Nanogen Diagnostics s.r.l. Advanced</p>	<p>A wholly owned subsidiary of Elitech Group and the European base of operations. It has been developing and marketing a wide diagnostic products range based on Polymerase Chain Reaction for the detection of human infective agents and human genetic alterations associated with different pathologies.</p>	<p>www.nanogenad.net</p>
<p>Nanovector s.r.l.</p>	<p>A R&D consultancy based company with expertise and skill in microemulsions and solid lipid nanoparticles obtained from warm microemulsion.</p>	<p>www.nanovector.it</p>
<p>Narvalus Biotech S.r.l.</p>	<p>Investigating the biological actions of molecules "in vitro" on cultured cells is a fundamental step for drugs development and for basic research in life sciences.</p>	<p>www.narvalusbiotech.com</p>



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<p>NatiMab Therapeutics S.r.l.</p>	<p>Human Monoclonal Antibodies for the Therapy and Management of Human Diseases. Exploits a novel, rapid and robust technology platform to isolate fully human monoclonal antibodies (NatHuMabs) from B cells matured in humans that show immunity to the target (antigen) of interest.</p>	<p>N.A.</p>
<p>Nisobiomed s.r.l.</p>	<p>Endoscopy diagnostic instruments that in a multiparametric way is able to make a PH analysis and a H. Pylori analysis.</p>	<p>www.nisobiomed.com</p>
<p>Nobil Bio Ricerche s.r.l.</p>	<p>It performs surface characterization of biomedical materials and devices on a contract-service basis. It provides contract research for the in vitro study of bioadhesive phenomena and for the evaluation of key surface properties.</p>	<p>www.nobilbio.it</p>
<p>NorayBio</p>	<p>A bioinformatics company who offers support to the biosciences sector (biotechnology, biomedicine, bipharmacy), through the development of new informatic solutions.</p>	<p>www.noraybio.com</p>
<p>NotoPharm Srl</p>	<p>An academic spin-off dedicated to improve current therapeutic approaches to immunological disorders through the development of new diagnostic techniques.</p>	<p>www.notopharm.com</p>



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<p>NOVAMONT s.p.a.</p>	<p>A new company that was created by a group of researchers following in the footsteps of Giacomo Fauser. Its ambitious project, "Living Chemistry for Quality of Life", combines agriculture, the environment and chemistry.</p>	<p>www.novamont.com</p>
<p>NTplast srl</p>	<p>It specializes in biomedical devices engineering. It is a start-up of Proplast consortium, the main R&D Italian centre in the field of plastics technologies. It is a multidisciplinary working team, with a strong specialization in plastic parts design, prototyping, manufacturing of advanced biomedical devices.</p>	<p>www.ntplast.com</p>
<p>Olivetti I-Jet S.p.A.</p>	<p>A subsidiary of the Olivetti S.p.A. and both are part of Telecom Italia Group since 2003; it is the Group company devoted to R&D and manufacturing in the field of microelectronics applications that range from image and print processing based on ink jet technology, to special MEMS, with applications targeting several industrial markets, and BioMEMS, applied to Life Science, Agro-Food and Environmental analysis.</p>	<p>www.olivetti.com</p>



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<p>Olon S.p.A.</p>	<p>Olon and Solmag, Division of Fidia Farmaceutici S.p.A. are two independent companies listed among the world leading producers of pharmaceutical active ingredients. It establishes its experience in fermentation processes, the foundation and the building of the first group facility. In order to strengthen their presence in the global pharmaceutical marketplace, Solmag and Olon have merged their commercial structures into one common organization: Solmag-Olon.</p>	<p>www.solmag-olon.it</p>
<p>Paladin Pharma S.p.A.</p>	<p>A company in “Well-Being Products” area (realization of products to promote the psicofisic well-being of the organism). It has been specialized in the production of dietetic integrators and alimentary, natural products and cosmetic for treatment of disturbs and problems with no pathological character.</p>	<p>www.paladinpharma.it</p>
<p>PharmaTrad</p>	<p>A team of freelance translators led by two highly-experienced professional translators. It offers a complete range of translation services to pharmaceutical companies, general practitioners, medical specialists and other institutional and professional parties in the medical/health and biotechnological sectors whose texts need to be written in several languages.</p>	<p>www.pharmatrad.com</p>
<p>Pomona Ricerche S.p.A.</p>	<p>Infectious diseases.</p>	<p>N.A.</p>



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<p>PRC Ticinum Lab S.r.l.</p>	<p>Pharma Research Centre TicinumLab R&D for pharma industries analytical development and validation of methods relevant to the active pharmaceutical ingredients (chromatographic determination of assay, related substances, enantiomers, solvents, reagent residuals, anions), including raw materials and intermediates, and to drug products according to the ICH requirements.</p>	<p>www.ticinumlab.com</p>
<p>Princeps Srl</p>	<p>Herbal parapharmaceuticals products productions and distribution.</p>	<p>www.princeps.it</p>



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<p>Probiotical s.p.a.</p>	<p>Probiotic strains that are the results of deep research showing the need to respect strict selection criteria: HUMAN ORIGIN isolation from the gastro-intestinal tract of healthy individuals BIO-SAFETY documented non-pathogenic features, acquired or acquirable non-antibiotic resistance PROBIOTIC EFFICACY higher functionality of the intestinal mucous membrane, strengthening of immune defenses, antagonizing the production of toxins and free radicals PHYSIOLOGICAL FUNCTIONALITY resistance to low pH values of gastric juice, resistance to bile salts, adhesion capability to the intestinal epithelial cells and consequent colonization TECHNOLOGICAL FUNCTIONALITY strong microbial concentration and high stability in time at ambient temperature.</p>	<p>www.probiotical.com</p>
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<p>Procelltech srl</p>	<p>It is focused on cell therapy, clinical studies and archive/biobanking providing: support to Stem Cell Factories; support of clinical studies; biobanking/archiving of regulated studies. The scientific network is composed of professional scientists and managers from health care and biotech (top Universities and companies) locally as well as internationally based. It is organized to respond to local clinical and health system in a structured way.</p>	<p>www.procelltech.net</p>
<p>Procos S.p.A.</p>	<p>An Italian CMO (Contract Manufacturing Organization) specialised in development, scale-up and production of APIs and GMP advanced intermediates for the pharmaceutical industry. It has matured in the course of the years, know-how in the field of the reactions to high pressure - catalytic hydrogenations and reductive carbosilazioni. Since 2006 it belongs to CBC, a Japanese multinational.</p>	<p>www.procos.it</p>
<p>PRODOTTI CHIMICI e ALIMENTARI s.p.a.</p>	<p>It has been present in the field of chemical intermediates and pharmaceutical active ingredients since 1946. The Firm is leader for sales volume and product range in the production of biliary derivatives.</p>	<p>www.pcaitaly.it</p>



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<p>Progefarm S.r.l.</p>	<p>It supplies consultancy and services in the research and development (lactic acid bacteria), analytical (microbiological analysis) and in the regulatory affairs field. Mission: to develop, register and commercialise medicinal products, medical devices and functional foods.</p>	<p>www.progefarm.it</p>
<p>Rayonics Italia S.r.l</p>	<p>Experience in food products x ray quality inspection. It designs, manufactures and services new equipment and put its expertise to customers' service for new X ray Non Destructive production Testing applications.</p>	<p>www.rayonics.it</p>
<p>RIDGEBACK s.a.s.</p>	<p>The areas of expertise includes: design, construction, testing and scientific validation of machines for research in muscle, exercise and neuromotor control for astronauts in flight. Research projects on the calf muscles of astronauts before, during and after exposure to microgravity during space shuttle missions. Sports Medicine.</p>	<p>www.andromeda-srl.com/SQC/sqchome_eng.htm</p>
<p>Rotalactis srl</p>	<p>Nutraceuticals and food supplement against rotavirus diseases.</p>	<p>http://rotalactis.com</p>



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<p>S.A.F.AN. BIOINFORMATICS s.a.s</p>	<p>An Italian SME specialised in structural bio-informatics offering bio-IT services based on building molecular models and analysing their static and dynamic properties. It uses sensitive approaches for the recognition of distant similarity, based on consensus alignments of meta profiles, coupled to a fold recognition approach.</p>	<p>www.safan-bioinformatics.it</p>
<p>SANOFI-AVENTIS s.p.a.</p>	<p>The establishment is dedicated to the production of active and intermediate principles of drug industry. It is composed of five chemical systems, and a system for biological residual treatment and an gaseous outflowing incinerator.</p>	<p>www.aventis.it</p>
<p>Sapi Med S.p.A.</p>	<p>It has a worldwide reputation for innovation in coloproctology. The product range consists of diagnostic and therapeutic devices with the following characteristics: disposable, hygienic, easy to handle, simple to use and orientated towards a modern and advanced conception of proctology.</p>	<p>www.sapimed.com</p>



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<p>Sicor Srl Società Italiana Corticosteroidi</p>	<p>A wholly-owned subsidiary of, a pharmaceutical group manufacturing bulk active ingredients and producing injectable dosage forms. It is a worldwide leader in bulk steroid production and is now focusing on the production of potent drugs. In order to maintain its leadership position in key markets, endeavors to maintain the highest quality standards and to constantly invest in technology and staff. It plays a leading role in bulk active pharmaceuticals for both chemical synthesis and fermentation, producing in accordance with the most relevant pharmacopoeias.</p>	<p>www.sicor.it</p>
<p>SiTec CONSULTING</p>	<p>It offers services in the areas of pre-formulation/formulation research and GLP/GMP,compliance. It can collaborate directly with the client to resolve issues related to the critical aspects of technicaldevelopment, quality systems and technology transfer, following GMP and GLP regulations.</p>	<p>www.sitec-consult.com</p>
<p>Smile Biotech S.r.l.</p>	<p>It develops a diagnostic kit for the detection of hidden caries.</p>	<p>www.smilebiotech.com</p>



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<p>Solvay Solexis spa</p>	<p>An International chemical and pharmaceutical group with headquarters in Brussels. More than 29 000 people are employed in 50 countries on every continent. In 2008, its consolidated sales amounted to €9.5 billion, generated by profitable and growing businesses in pharmaceuticals, chemicals and selected plastics, with a balanced portfolio of sustainable and profitable growth, providing innovative solutions and new technologies, acting as a good corporate citizen.</p>	<p>www.solvay.com</p>
<p>SORIN BIOMEDICA CARDIO s.p.a.</p>	<p>Part of the Cardiac Surgery BU of the Sorin Group, it is leading company operating worldwide in the field of high-technology bioengineering for Implantable Medical Devices. Its commitment is to provide the medical community with advanced solutions of absolute reliability and quality to restore health and life for the well-being of mankind.</p>	<p>www.sorin.com</p>



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<p>SORIN BIOMEDICA s.p.a.</p>	<p>A world leader in Cardiac Surgery and a leading player in Cardiac Rhythm Management. Sorin's breakthrough, proprietary technology has the potential to create a new industry benchmark in Vascular Intervention. A unique technical expertise in advanced and innovative Haemodynamics and Haemoelectronics is applied to meet patient needs and to advance cardiovascular and renal medicine.</p>	<p>www.sorin.com</p>
<p>SpiderBiotech s.r.l.</p>	<p>A biotechnology start-up company engaged in the discovery and development of therapeutic multimeric peptides and peptidomimetics in the fields of bacterial infections and the life-threatening conditions related (sepsis). It holds an exclusive worldwide license from the Università di Siena to develop novel tetrabranched peptides that showed to be potent, protease-stable antimicrobial agents with in vitro activity against bacteria known to cause nosocomial and cystic fibrosis infections.</p>	<p>www.spiderbiotech.com</p>
<p>Takeda Italia Farmaceutici S.p.A.</p>	<p>A research-based global company with its main focus on pharmaceuticals. It discovers, develops, manufactures and markets a broad range of superior pharmaceutical products to strive toward better health for individuals and progress in medicine.</p>	<p>www.takeda.it</p>



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<p>Target Heart Biotec Srl</p>	<p>Its innovative strategy is based on the discovery of Melusin, a muscle specific protein, with key function in triggering increased muscular power (compensatory cardiac hypertrophy) when heart is subjected to exceptional work load. The goal, led by scientists actively involved both in basic and clinical research, is to validate Melusin as a biopharmaceutical recombinant drug in preclinical studies on animal models of heart failure.</p>	<p>www.thbiotec.com</p>
<p>TECNOGAMMA s.n.c.</p>	<p>It is specialized in the distribution of high tech products for neuro and spine surgery, minimally invasive surgery (general surgery, gynaecology, urology) and urology. In addition to these areas, its broad experience includes a wide range of other operating room products.</p>	<p>www.tecnogamma.it</p>
<p>TEKNOFARMA s.p.a.</p>	<p>It works for the production, the commercialization and the research of veterinary medical specialties, veterinaries medical surgical, complementary feedstuff. In Teknofarma works qualified technical staff for realization of new and innovated products for the improvement of the animal health.</p>	<p>www.teknofarma.com</p>



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<p>Tosoh Bioscience srl</p>	<p>It is involved in a number of diagnostics niche markets including Immunochemistry, HPLC based diabetes and thalassemia screening and Molecular Biology. Its mission is to establish recognition as a leader in technology and customer support within the healthcare industry. Its first priority is to anticipate and satisfy customer needs through a company wide commitment to partnerships, value and continuous improvement.</p>	<p>www.tosohbioscience.it</p>
<p>Traumavet srl</p>	<p>An Italian company which develops, produces and commercializes the FIXIN internal fixator for orthopaedic veterinary surgery; it collaborates worldwide with the most important opinion makers to develop new products and create study groups.</p>	<p>www.traumavet.com</p>
<p>Trustech srl</p>	<p>A consulting company focused on micro and nanotechnologies. It focuses its strategy on few simple basics: to search for solutions and their pragmatic implementation in industrial environments, to pay constant and adequate attention to return of investments, to look for the best competitive positioning of products and production processes, to reduce where possible time-to-market of innovation, to be able to evaluate new possible applications of technologies.</p>	<p>www.trustech.it</p>



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<p>UCB Pharma S.p.A.</p>	<p>As a niche speciality pharmaceutical company, it is engaged in continual research and development in the fields of allergic/respiratory diseases and disorders of the central nervous system.</p>	<p>www.ucb.com</p>
<p>Unibios</p>	<p>The chemical Unibios Division is dedicated to the production of chemical, biochemical and active ingredients assigned to the pharmaceutical industry. The specialization of the productive departments is prevalently concentrated on the manufacture of quinolones, antibacterial and antiviral drugs as well as enzymes.</p>	<p>www.unibios.it</p>
<p>UNIMEDICAL Biomedical Technologies S.r.l.</p>	<p>A reliable partner in the production and distribution of medical devices in the fields of orthopaedics, traumatology, surgery of the extremities.</p>	<p>www.unimedical.it</p>
<p>Valter Occhiena S.r.l.</p>	<p>It has undertaken an activity in the distribution of products for diagnosis with flow cytometry. The mission is to unify researchers, medical doctors, biologists, technicians, coming from Universities and specialised Institutions which are united by a common interest in developing new projects and widening their competence in the new emergent fields.</p>	<p>www.valterocchiena.com</p>



<p>VANADIS</p>	<p>It is focused on research and consultant activity, such as custom synthesis of organic and polymeric compounds. The preparation of lactic acid biodegradable polymers for biomedical applications, that relies on our long experience, is a key point within VANADIS activities.</p>	<p>www.vanadis.it</p>
<p>VI.REL Pharma S.r.l.</p>	<p>A consulting company accompanies pharmaceutical, nutraceutical, and healthcare products from the very first steps to market and beyond.</p>	<p>www.virelpharma.it</p>
<p>Wisident srl</p>	<p>The dental laboratory was born in 1992 when some of the skilled labs agreed to join to meet the new demands of the market. The merging process has made possible a policy of improvement addressed in particular to a culture of constant quality both by increasing the know-how and through the use of instrumentation at the highest technological content.</p>	<p>www.wisident.it</p>

RESEARCH INFRASTRUCTURES AND TECHNOLOGY TRANSFER

1) UNIVERSITIES

Three major Universities and a private one provide the backbone to Piedmont's education system in technical subjects, the sciences and humanities. A wide range of disciplines and courses are provided, from traditional ones to the most innovative. Over 100 schools offer specialist and vocational courses, private centres and post-graduate education institutes help young people and the labour market to meet in all areas. Numerous international training centres are also located in Turin.

- **University of Turin:** has about 65,000 students, 1,300 teachers and 800 researchers, 12 faculties, 8 university schools, 55 departments. The University has a wide-ranging network of exchanges and co-operation with other university centres in Italy, Europe and around the



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world; it offers 7 bi-national degrees and about 40 agreements on international PhDs. These agreements involves mainly France, Germany, Russia, Poland and Latin America. In the Life Sciences field operating various faculties (Agriculture, Pharmacy, Medicine, Veterinary, Environmental Sciences and the Interfaculty School for Biotechnology and several Departments). All areas of education and research are covered in health, agriculture and environment.

- Website: www.unito.it
- **University of Eastern Piedmont "Amedeo Avogadro":** the region's second university, is present in three cities, with about 10,000 students, 7 faculties, 50 courses and 12 departments.
- Website: www.unipmn.it
- **Politecnico of Turin:** is a leading technical/scientific education and research institution, closely integrated with the business world and rated seventh european technical universities by the highly regarded Academic Ranking of World Universities, compiled by Shanghai Jiao Tong University's Institute of Higher Education. The Politecnico of Turin's current internationalisation policy makes it a magnet for international education, aiming to stimulate agreements and exchanges with institutions in strategic geographical areas, such as Latin America, the Mediterranean, South-East Asia. Relations with the USA and Canada concern chiefly research. Moreover The Politecnico is carrying out a strategic development program, with the "Business Research Center": a place not only for academic learning but an attractor of major investments in research by multinational.
- Website: www.polito.it
- **University of Gastronomic Sciences:** backed by Slow Food, is the world's first university entirely dedicated to food and wine. Its main site is in Pollenzo (Cuneo) and the first courses started in October 2004.
- Website: www.unisg.it, http://www.unipmn.it/default.aspx?r2b_language=Eng&oid=&oalias=

2) INCUBATORS

Piedmont's Incubators, created with the co-funding of the European Commission and with other, mainly public, sources of finance are facilities dedicated to the creation and development of new enterprises, starting from the selection of innovative ideas and projects. A total of about 90 start-ups are hosted in the region's incubators, while almost 150 companies have been launched.

- **I3P:** A non-profit, joint stock consortium company - made up of the Politecnico di Turin, Province of Turin, Chamber of Commerce of Turin, FinPiedmont, Fondazione Turin Wireless and City of Turin - manages the Incubator for Innovative Companies at the Politecnico di Turin.

Website: www.i3p.it



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- **2I3T:** A consortium company made up of the University of Turin, Province of Turin, City of Turin and FinPiedmont, manages the University of Turin's Incubator; it is located on two sites: in Via Quarello (for chemistry-pharmaceuticals) and in Via Nizza (for biotechnology activities).
- **Enne3:** it is the University Enterprise Incubator, located in Novara, which works to promote and develop technologically innovative business projects, with particular attention to the territory of Eastern Piedmont.
- **Bioindustry Park Bioincubator:** The incubator of the Bioindustry Park Silvano Fumero. Together with the incubator system of the University of Turin, this is the region's second incubation facility specialised in new life sciences companies.
- **TECNOincubatore:** The business incubator run by Tecnogranda. TECNO Incubatore, in partnership with I3P - which provides support in the selection of ideas and preparation of the business plans - fosters the birth of new, high-tech enterprises.

Website: www.tecnogranda.it/en/tecnogranda_incubatore

- **Incubator of the Tecnoparco of Lago Maggiore:** It blends in naturally with the activities run by Tecnoparco to benefit innovative companies. In this facility, small start-ups find the ideal conditions to begin life and overcome the first stage of evolution, above all in the field of the analysis of materials.
- **Univer:** A public-private consortium that operates in the Vercelli area, promotes synergy between local actors and exploits the specialist competencies for the growth of the socio-economic growth of the zone. In particular, it acts as an instrument to implement joint initiatives and strategies between universities and the world of industry and services.

Website: www.univer.polito.it

The incubator system has been able in the last 5 years to activate around 60 Ml euro of risk capital.

3) SCIENCE PARKS

The Science and Technology Parks in Piedmont, a key element of the regional innovation system, have in common high quality infrastructures and an elevated presence and are held by many actors, such as the public administration, FinPiedmont, the universities, and private businesses. Their main purpose is to address private companies' research needs.

- <http://www.bioindustryPark.eu/> **Bioindustry Park Silvano Fumero:** Science and technology park located in Canavese. The Park 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 support services, such as technology transfer, patent support, tutorin/mentoring of start-ups and spin-offs. Bioindustry Park since 2009 is the managing company of bioPmed.



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Website: www.bioindustryPark.eu

- **Environment Park:** Environmental Science & Technology Park. Its mission is to develop environmental sustainability by encouraging research on innovation and eco-efficiency.

Website: www.envipark.com

- **Tecnoparco del Lago Maggiore:** Science and Technology Park with the aim of promoting business development through the innovation of technologies, processes and organization.

Website: www.tecnoparco.it

- **Parco Scientifico Tecnologico delle Telecomunicazioni in Valle Scrivia:** Its purpose is to promote innovative companies with a strong component of research and development. It brings together companies, universities and research centres who want to build laboratories for applied research. The PST has a laboratory for molecular characterization of materials.

- **Virtual & Reality Multimedia Park:** The Park's aim is to promote research and development of innovative applications – especially in virtual reality and new technologies – for the development of the audiovisual and multimedia sectors.

Website: www.vrmmp.it

- **Tecnogrande:** Located in the Cuneo province, is the innovation center for the agri-food industry designated by FinPiedmont and the Regional guidelines within the Enzima-p network of techno-parks.

Website: www.tecnogrande.it

4) R&D CENTRES

Piedmont has 380 laboratories and over 200 public and private R&D centres, some of European standing. Over 1,500 researchers are dedicated to Biotechnology, Pharmacy and Medicine, while 60% of the 800 public academic research groups are involved in the healthcare and medtech field.

- **CNR – National Research Council:** At regional level CNR offers a set of R&D laboratories with over 160 researchers, specialising mainly in phytovirology, proteomics and agrifood, immunogenetics and oncology, mycology. In Turin there are some institutes, such as the “Institute of plant virology” (IVV) and the “Institute of science and technology for ceramics” (ISTEC).

Website: www.area.to.cnr.it

- **Institute for Cancer Research and Treatment:** IRCC, a private non-profit institution founded by the Fondazione Piemontese per la Ricerca sul Cancro-Onlus, has the mission to make a significant contribution to fight cancer by understanding the basics and by providing optimal diagnostic and therapeutic services. Both basic research and clinical research are actively performed, placing the Institute at the interface between molecular biology and medicine.

Website: www.ircc.it



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- **HuGeF – Turin:** A private non-profit institution. It was established in November 2007 by the Compagnia di San Paolo, the University of Turin and the Turin Polytechnic. 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.

Website: www.hugef-turin.org

- **Molecular Biotechnology Center:** The MBC was inaugurated in 2006 with the scope of unifying the diverse biotechnology research groups of the University of Turin, in order to form a *Center of Excellence* for interdisciplinary teaching. The MBC of the University of Turin 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.

Website: www.mbcunito.it

- **Neuroscience Institute Cavalieri Ottolenghi:** NICO is a scientific Institute of the Cavalieri Ottolenghi foundation, based in Orbassano (Turin, Italy). The mission is to perform research in the field of neuroscience by combining the study of normal structure and function of the nervous system, the related pathological and degenerative processes as well as mechanisms of regeneration and repair. The NICO centre hosts several laboratories covering a wide variety of multidisciplinary research activities applied to neuroscience, including neuroanatomy, cellular and molecular biology, genetics, cellular physiology, thereby creating a very collaborative and highly stimulating scientific atmosphere.

Website: <http://nexos.cisi.unito.it/joomla/nico/>

- **Tera Foundation:** Tera develops radiotherapy techniques based on the use of hadron particles and applications of physics and informatics to medicine and biology. Hadron Therapy makes use of beams of protons (hydrogen ions), carbon ions and neutrons.

Website: www.tera.it

- **Edo Tempia Foundation:** 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 ongoing both for the use of microarrays techniques in preclinical studies and for the study of molecular profile of tumours in order to improve diagnosis.

Website: www.fondoedotempia.it

SERVICES, SUPPORT AND FINANCING SOURCES

Piedmont has progressively implemented several actions aimed at supporting highly innovative sectors, including those of biotechnology and energy and environmental technologies.

These sectors are defined in the regional strategic planning document as “neoindustrial transition” districts with the aim of entering the global market in an increasingly structured way as well as of driving the whole regional economy.



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Over the years, Piedmont has benefited from EU structural funds, including ERDF (European Regional Development Fund) and ESF (European Social Fund) which have allowed Piedmont Region to adopt a series of measures to foster local competitiveness and conversion of the economic structure.

An example for consideration is the case of the Canavese area: the Bioindustry Park Silvano Fumero, which is among the top intervention priorities of Piedmont Region industrial policy, was implemented by using funds allocated by the ERDF – in co-financing regime of Government and Region – the objective being to promote and develop biotech research and incubation opportunities for companies operating in the Life Sciences field. In this particular case, the interventions allows to make the best of the existing know-how, as well as supporting the setting up of technologically highly specialized productive activities. In the period 2006-2008, additional regional funds were allocated to initiatives of company incubation within the park (e.g., the Discovery Project) as well as to actions aimed at attracting companies from other regions (e.g., Bracco Imaging or AAA).

During the last few years, Piedmont Region has implemented various targeted interventions to stimulate innovation by means of international cooperation forms (networking/clustering).

In particular, by using European and regional funds, some biotech-specific projects were funded directed at reinforcing cooperation both on the border and transnational level.

With specific reference to life sciences, the Innovation Clusters initiative, which was promoted by Piedmont Region within the POR-FESR 2007-2013, has fuelled clustering interventions in this field by funding the bioPmed cluster. The total amount of regional investment dedicate to the support to R&D initiatives has been of around 50 Ml euro from 2006 till 2011.

With this system, in the last two years, more than 25 innovative industrial R&D projects and more of 15 Research projects were financed in the bio- and med-tech area. The action described above is characterized by an interesting and qualifying aspect: the participating companies co-finance not only the research projects submitted, but also the cluster management model, thus making “Innovation Clusters” a laboratory of public-private cooperation implemented within the sector.

What is more, the effort of attracting research activities to centers having a sufficient critical mass to operate according to international standards and to relate synergistically with the local industrial fabric, should be interpreted in the perspective of reinforcing and

qualifying research in the biotech field. Two examples are the Molecular Biotechnology Center and the Center of Excellence in Preclinical Imaging (CEIP) of the University of Turin that have been cofinanced with European structural funds.

Worthy of attention are some significant financial interventions addressed to specific sectors of industrial research which aim at fostering and encouraging (by means of co-financing from governmental and regional funds) the cooperation between universities,

research bodies and companies through shared projects requiring a high degree of knowledge (ICT, biosciences, nanosciences).



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Besides financing research projects, regional authorities also provide companies with tools to support the acquisition of high value-added services (e.g., vouchers for intellectual property, technology intelligence and market research consultancy services), to access international markets and for mobility of personnel among research institutions, large enterprises and SMEs.

Moreover, the role of banking foundations, including the CRT Foundation (www.fondazioneCRT.it) and the Compagnia di San Paolo (www.compagniadisanpaolo.it), should be pointed out: the former, through the “Lagrange Project”, allocates research grants of various types; the latter, through the “Neuroscience Program”, funds scientific research projects in the framework of different disciplines, but all focused on CNS.

Among the private sources of financing, the role of Eporgen Venture (www.eporgen.com), a private seed capital company financing innovative projects in the area of Life Sciences, should be noted. Eporgen contributed to the setting up of several biotech start-up companies incubated within the Bioindustry Park.

Eporgen Venture also holds a participation in Piedmontch (www.Piedmontch.it), the holding company set up by Fondazione Turin Wireless in order to support regional innovation and development. Piedmontch invests risk capital in emerging companies in the fields of ICT, biotechnology, biomedical technology, advanced mechanics, energy and innovation services and has implemented several seed capital investments on a regional level.

In order to foster the knowledge and innovation excellence of the Piedmont’s territory, Fondazione Sviluppo e Crescita CRT has set up Jstone (www.jstoneinnovation.com), a seed and venture capital company operating in several highly innovative fields including nanotechnology, biotechnology, agro-food and biomedical.

Technology Platforms Initiative

The project Bio Technology platforms is one of the most important initiatives developed in the last years by the Piedmont Region in order to improve the knowledge in Life Sciences field. Bio Technology platforms consist in R&D projects co-financed by Piedmont Region led by Innovation platforms composed by research institutes and industries operating in synergy. The Platforms conduct coordinated actions in the research and in the innovation field with mid term objectives.

The scientific areas interested by this initiative are: molecular Imaging; stem cells for therapy and regenerative medicine; Immunodiagnostic and Immunooncology; Product Innovation and diagnostic.

Since 2009 have been developed different projects under the so called “Life Sciences Program”. In the Life Sciences Program 5 themes have been activated. Each theme joins knowledges and skills of Universities and Research centres. Starting from this collaboration new and interesting proposals have been developed aimed to enhance technology transfer and to create a new organization of the research system at local and national level.



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CEIP – The Piedmont Agency for Investments, Export and Tourism

The Piedmont Agency for Investments, Export and Tourism was set up in December 2006 from an initiative of the Piedmont Regional Authority. It promotes Piedmontse excellence worldwide and facilitates internationalisation of the territory. Its Foreign Trade Training division works in designing and managing programmes and courses on international trade issues, dealing with technical and legal aspects, aimed at assisting Cluster members to take their place on the international scene.

It is also the unique, free reference point for companies wishing to locate in Piedmont. The inward investment team can advise you on every aspect of starting and running a business in Piedmont, providing assistance at every stage of the project. The team also supports foreign companies which have already invested in Piedmont, in order to facilitate operations and development in the region.

They manage the Regional Investment Contract, an innovative financial instrument created and implemented by the Region to encourage the arrival and development in Piedmont of new investments in industry, services and research from abroad, giving the investor guarantees in terms of financial support and time scheduling for the project. Services are free, responsive, tailored to your needs and totally confidential. Website: www.centroestero.org

Turin Chamber of Commerce

The mission of the Chamber, a mission-driven public institution, is to foster the growth of local economy and enhance it through effective and targeted initiatives, speaking on behalf of 238,000 companies working in the Province and filed in the Turin Chamber of Commerce's Registrar of Enterprises.

The Chamber 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 Turin Chamber coordinates and manages ALPS Consortium, a contact point of the Enterprise Europe Network.

Website: www.to.camcom.it

Helpdesk for the protection of industrial property for biotech and medtech

Along with the PATLIB (Centre of the Turin Chamber of Commerce) – the only patent documentation centre in Piedmont – the bioPmed Cluster has set up a "Helpdesk for the protection of industrial property for biotech and medtech". The aim is to give guidance on the various opportunities for protecting industrial property within Italy, the European community and the whole world, referring to procedures for depositing inventions, utility models, designs, company models and brands.



Biotech in Italy:
selected areas of excellence



Polo Bioteconologie Piedmont HTE

The Higher Technical Education “Polo Bioteconologie Piedmont” consists of educational institutes, training agencies, Universities, research centres, companies and associations and facilitates spreading of technological innovation, dealing with higher technical training of staff able to follow scientific development and use new technologies. The Biotechnology pole delivers training in three main areas: human health, industrial processes and food and agricultural processes and the environment. The pole organises higher training courses (HTE) and seminars, as well as technical training for trainers.

Website: www.polobioteconologie.it

USEFUL ADDRESSES

bioPmed - Piedmont Innovation Cluster

The Unique entry Point to Piedmont life sciences cluster: www.biopmed.eu

Bioindustry Park Silvano Fumero

Via Ribes, 5 – 10010 Colletterto Giacosa (TO)

Tel. +39 0125 561311

Website: www.bioindustrypark.eu

E-mail: info@bioindustrypark.eu

Piedmont Region

Direzione Regionale 13 - Innovazione, ricerca ed università

Ricerca scientifica e innovazione

Corso Regina Margherita, 174 - 10152 Turin

Tel. +39 011 4321238 - Fax +39 011 4326517

Tel. +39 011 4321370 - Fax +39 011 4326517

Website: www.regione.Piedmont.it/innovazione/ricerca.html

E-mail: redazione.innovazione@regione.Piedmont.it

Piedmont Region

Direzione regionale 16 Attività produttive

Via Pisano, 6 – Turin

Tel. 011.4321461 - fax 011.4323483

Website: <http://www.regione.Piedmont.it/industria/>

E-mail: direzioneB16@regione.Piedmont.it, attivitaproduttive@cert.regione.Piedmont.it