



Bioindustry Park Canavese is a Science & Technology Park located in Canavese, an area near Turin in the north of Italy. **Mission of the Park 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.**

Companies such as Serono and Bracco have already chosen the Park as a location and spaces are still available for start-up, spin off and existing companies in the above mentioned fields. The Park manages investment with a professional project management approach assuring also flexible and attractive offers from a financing point of view.

The Park is willing to boost research in the life science fields assuring not only sound project management and results evaluation but also offering research facilities and scientific services. **Laboratories for Advanced Methodologies** (LIMA) can supply a wide range of scientific services and research activities such as in their 4 departments: LIMA -chemistry, LIMA-biology, LIMA-proteomics, LIMA-MRI and LIMA-bioinformatics:

• DNA sequencing	• Field cycling relaxometry
• Oligo and peptide synthesis	• Mass spectrometry
• Molecular biology	• Spectrophotometry
• Analysis of biological processes	• Chemical Synthesis
• Recombinant protein, monoclonal and polyclonal antibodies	• Parallel computing, high performance molecular graphics and Bioinformatics
• High resolution NMR	• Proteomics
• MRI	• Biochemistry

LIMA is also a **permanent training site** for graduates and researchers who intend to specialise in biotechnology and scientific methodologies oriented towards applied research in the chemical, pharmaceutical, diagnostics, biomedical and food industries. Thanks to the strong links with University (Bioindustry Park hosts two departments of the University of Turin and a National Research Council Group), with private research laboratories and several high-tech SMEs, Bioindustry Park Canavese owns state of the art know-how in different research fields. The principal research activities and **area of interest for R&D projects** are:

- **Development of innovative systems for advanced diagnostic methodologies and biosensors**
- **NMR and MS investigations of the structure and dynamics of proteins & drug design**
- **Design of innovative metal chelates for biomedical applications**
- **Molecular dynamics and structural analysis of catalytic systems of biological relevance**
- **New contrast agents for Magnetic Resonance Imaging (Molecular Imaging)**
- **Use of MRI to assess efficacy of diagnostic (Oncology field) and therapeutics (CNS diseases) in “in vitro/in vivo” models**
- **NMR of cells/relaxometry**
- **Recombinant proteins, DNA sequencing, and optimisation of modified oligos**
- **Proteomics applied to health care problems (Oncology, CNS, Infectious diseases, etc)**
- **Proteomics applied to agro-food problems (Milk, yeasts, ecc)**
- **Allergens in food**
- **Bioinformatics and parallel computing**

Directly or through Entrepreneurial Organisation, University Laboratories and SMEs located in the Park and in Canavese, Bioindustry Park is also working on research problems related to

- **Technology Transfer and technology dissemination (member of EPO PATLIB/PIP network, agreement with IRC-ALPS and DIADI project)**



- **Marketing/promotion of companies, institutions and organisations specialised in life sciences and located in Piemonte Region**

Incubation of start-up in the biotech field is one of the main focus of Bioindustry Park activities. As such as “**Discovery project**” (<http://www.bioindustrypark.it/discovery/>) offers a complete package of support services, facilities, technology transfer solution and the possibility to network with Venture capitalists, business angels and seed capital providing companies.

Bioindustry Park is also offering a complete set of support services to R&D (<http://www.bioindustrypark.it/cbtech/>) and development activities such as technology transfer, patent support, tutoring/mentoring of start-up and spin-off, project management, financial advantages for location, and shared facilities, etc.

Ongoing projects comprises an analysis of the state of the art of Biosciences in Piemonte region in order to assess the potentiality of clustering. First data are available at the web address <http://www.piemontelifesciences.org>

Main results (2000 – 2004)

- More than 40 ML euro invested
- 16.000 sqm devoted to research labs and pilot production; 1.100 sqm of Integrated Laboratory for Advanced Methodologies
- More than 20 organisations and research centers operational in Bioindustry. (BIPCa, AETHIA, Bracco Imaging (3 different units) , Serono, Bruker, SI.TECH, Creabilis Therapeutics, Bioman, Chemsafe, Biolab, Impressionware, Bio3research, Medestea, Ribes Informatica, ONAMA, IT Solutions, E3C, OSRA Fondazione per le Biotecnologie, Ass. Nazionale Biotecnologi Italiani, Coordinamento Naz. Studenti di Biotecnologie, CIRCMSB). More than 200 employees. More than 115 new jobs created in last 4 years
- N. of companies hosted in the Science Park but coming from outside the territory: 7
- N° of start-ups: 6
- N. of employees working in the management organization of the Science Park: 18
- An average of 40 University and CNR scientists - more than 90 scientific articles published in last 4 years
- More than 20 patents filed by organizations settled in the Park
- More than 170 SMEs met for technology transfer activities
- More than 110 events and workshops organized with more than 2.000 attendees
- In 2004 agreement on technology transfer and clustering with ADEBAG-Grenoble (FRANCE) (<http://www.adebag.org>) and IRCC cancer research center in Candiolo(TO-ITALY) (<http://www.ircc.it>)
- Networked with several institutions and research centers such Università Uninsubria, Politecnico di Torino, Università del Piemonte orientale, IRC-ALPS, TEFARCO consortium, CNR-IBB, il CERM Large facility, Tecnorete Piemonte (network of 6 regional Science Park), ITP, APSTI (Italian Association of Science Parks, Assobiotec, ANBI, ecc

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