



AGENCE D'ETUDES ET DE PROMOTION DE L'ISÈRE

AEPI 2007

Grenoble isère-france

Proteomics

**Grenoble-Isère, a global center
for excellence in functional proteomics**

➡ Grenoble-Isère-France is where the life sciences and the exact sciences come together. This dynamic area has been fertile ground for the life sciences over the past two years, with more than €400 million in investments. Various research projects, industrial development programs, and local initiatives targeting the life sciences have also been rolled out, including NanoBio, which will see €41 million in investments over six years. These investments are in addition to funding for the micro- and nanotechnologies sector, which has racked up €4 billion in investments, with another €3 billion to come in Grenoble-Isère alone.

With screening, proteomic testing, and high-speed crystallization platforms plus a structural biology research network that is unique in Europe, Grenoble-Isère has staked out a position as leader in structural and functional protein research. Grenoble-Isère is also home to the internationally-renowned ESRF (European Synchrotron Radiation Facility) and ILL (Institut Laue Langevin).

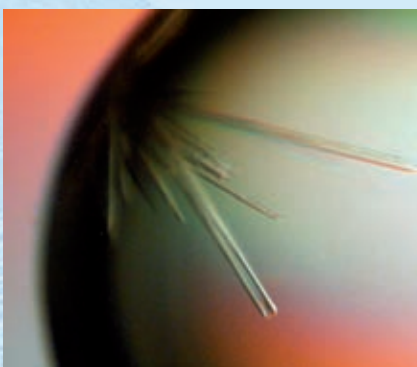
➡ Leaders in academia and industry

Biotem, Biomatech, CEA-Grenoble, CEA-Leti, CHU-Grenoble, CNRS, Creacell, EMBL, ESRF, Genostar, HC-Forum, IBS, ILL, ImmunID, Inria, Inserm, Mellitech, Optimed Clinical Research, Protein'eXpert, Synapcell, UJF,...

➡ Major R&D initiatives

NanoBio, Lyonbiopole, Rhône-Alpes Genopole, CISB, PSB, Cancéropole Lyon Auvergne Rhône-Alpes, Spine.

NanoBio: innovation cluster focusing on biology and healthcare applications for the micro- and nanotechnologies. NanoBio will bring in innovative businesses and research teams in the field to participate in common research projects.



Functional protein research and characterization

Grenoble-Isère possesses screening and proteomics platforms that are unique in France and a clinical proteomics platform. Research is underway in the automation of crystallization, the automatic detection of crystals using imaging, isotopic marking, structural resolution (X-ray, neutrons, NMR), data management, and bio-computing.

Expression and production

Progress is being made in the automation and robotization of processes, bioreactor production methods, contract engineering and production, and clinical cGMP production.

Unique interdisciplinary educational programs

- Master's in Health and Drug Engineering: diagnostic and therapeutic biotechnology and engineering
- Ecole Nationale Supérieure de Physique de Grenoble (Grenoble Institute of Physics) – Program in instrumentation for the biotechnologies
- Master's in Bio-computing
- Doctorate in Structural Biology and NanoBiology
- Doctorate in Molecular and Structural Physical Chemistry.

Flagship projects

- **Protool:** development of a system to perform nanobiopsies and obtain the proteomic profile of the sample - CEA-Leti/DTBS.
- **Lyonbiopole/Pravic:** innovative recombinant proteins with immune modulatory and antitumor activities, focus on recombinant enzymes - OPI and Protein'eXpert.
- **Lyonbiopole/Fiv Vax:** development of an AIDS vaccine in cats - Protein'eXpert and Merial.
- **Flupol:** european project on the virulence characters of different strains of the avian flu virus - EMBL and UJF.

A range of dedicated facilities available for your project

• **Biopolis:** biotechnologies business incubator that offers the use of common services and technological facilities including a molecular biology room, a cell culture room, and more.

• **Minatec - High Technologies Building:** this shared laboratory offers 10,000 square meters of workspace and clean rooms to corporate R&D teams striving to transfer technology in the micro- and nanotechnologies.



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