



PROJECTS APPROVED

99

TOTAL BUDGET (€M)

140

Atlantic Biotherapies

BIO THERAPY: CELL AND GENE THERAPY, IMMUNOTHERAPY AND IMMUNOTECHNOLOGY, BIOMATERIALS AND RADIOPHARMACEUTICALS

MAIN INTERESTS

- Biomaterials, transplants
- Cancerology
- Cardio-vascular health
- Dermatology
- Diagnoses
- Genetics, gene therapy, cell therapy
- Immunology, allergology, hematology, infectious diseases
- Metabolism, endocrinology, nutrition
- Human health
- Central nervous system

179 MEMBERS

8 major companies: Groupe Grimaud, Eurofins, Silliker SAS, etc.

2 foreign companies: The MarkeTech Group (USA), Thermo Fisher Scientific (USA)

36 SMEs

50 centers of excellence: University of Angers, University of Nantes, Paul Papin and René Gauducheau Cancer Centers (Nantes), Institute for Transplants and Transplantation Research (ITERT), Canceropôle, French National Institute for Health and Medical Research (INSERM), etc.

Local authorities

R&D WITHIN THE CLUSTER

1,000 RESEARCHERS

36 PROJECTS FINANCED

€31.4M STATE AID

€N/A FROM THE IF ⁽¹⁾

€11.85M FROM THE NRA ⁽²⁾

NUMBER OF PATENTS FILED IN 2007
BY APPROVED PROJECTS: N/A

(1) IF: INTERMINISTERIAL FUND
(2) NRA: NATIONAL RESEARCH AGENCY

EXAMPLE PROJECT

CELLARTHRIX

Co-approved by the Atlantic Biotherapies and Eurobiomed clusters

Participants: TxCell, Tc Land Expression, Montpellier University Hospital - Lapeyronie, Institute for Research in Biotherapy (IRB), Inserm U844

This project aims to develop a preparation method for autologous cell therapy for the treatment of juvenile idiopathic arthritis, a rare disease, and rheumatoid arthritis.

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CLUSTER STRENGTHS

→ **Number of employees at cluster members: 3,600**

The Pays de la Loire region features a network of biotechnology companies and research organizations that are capable of developing new products and services for the global market

→ **Specialist research units and researchers**

- 28 specialist research units
- More than 900 researchers

→ **Nantes and Angers University Hospitals**

- two leading university hospitals
- More than 14,000 employees

→ **First-rate medical centers**

- two cancer centers provide the second largest capacity for cancer treatment in France
- The Institute for Transplants and Transplantation Research (ITERT) is Europe's leading center for kidney and pancreas transplants

INTERNATIONAL OUTLOOK

Strong

→ **Cooperation with foreign clusters**

- Aresa (Belgium)
- BioAlps (Switzerland)
- Heidelberg Technology Park (Germany)
- Leiden Life Meets Science (Netherlands)
- Medcoast Scandinavia (Norway and Sweden)
- Milan Biocluster (Italy)
- Tartu Science Park (Estonia)
- Wales Gene Park (United Kingdom)
- Madrid Biocluster (Spain)

→ **Participation in European programs**

- Participation in the European Council of Bioregions, recently created and directed by Cambridge (United Kingdom)

→ **Involvement in international projects**

- Participation in the Bio 2008 convention in San Diego, California (USA) in May 2008
- Biomed Israel conference in Tel Aviv, Israel in May 2008

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PROJECTS

PROJECT	PARTICIPANTS	DESCRIPTION
CEFBIOP	Vivalis, Clean Cells	Bioproduction training center. Training skilled workers for the bioproduction sector in real working and regulatory conditions.
LEX	Clean Cells	Recombinant expression laboratory. Project involving the association, enhancement and marketing of the cluster's expertise in producing biological therapeutic products, with the support of a training organization.
ATAVIH	Institute for communication and cybernetics research in Nantes (IRCCyN)	Support for early determination of HIV treatment effectiveness.
HEPATIC FIBROSIS	University of Angers, Laboratory for hemodynamics and hepatic fibrosis / Tumor invasiveness interactions	Research on hepatic fibrosis (fibrous connective tissue that develops where hepatic cells have been destroyed).
EBx	Vivalis - Clean Cells	Therapeutic proteins.
PHOSPHO PROTEOME ARRAY	Protneomix	Development of high-performance protein microchips for phosphoproteome analysis.
ATOS	Biomatlante, Clean Cells	Combination of cells and materials for bone cell therapy.
MUTEC	MHS Electronics	Development of a biochip for quick detection of DNA mutation.
NANOMIC	Protneomix	Nanodiagnostics for micrometastases.
MESANI	Nantes University Hospital (CHU)	Cell therapy for chronic ischemic heart failure (restricted blood supply to the heart).
CENTAURE	Nantes University Hospital and Necker Hospital in Paris	Thematic network for transplant research and treatment.

Contact

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