

CRDC - BIOTEKNET

MISSION

BioTekNet integrates the know-how in the field of industrial biotechnologies among Campania Universities, public institutions and public research centres.

BioTekNet aims to create a regional integrated network of scientific, technological, economical and managerial resources in the field of Industrial Biotechnologies to:

- ✓ Perform R&D activities related to production system's needs, directly involving enterprises in the innovation planning and creating process;
- ✓ Build up favourable conditions to attract, in the Campania Region, new industrial investments in the biotechnological field, thus creating new job opportunities;
- ✓ Support the local traditional agro-food industry by transferring the high impact biotechnological know-how to the production system;
- ✓ Assist new knowledge-based companies in the start-up phase, by making infrastructures and laboratories available for their needs;
- ✓ Improve the quality of technological expertise to be used from national and local business;
- ✓ Educate and train highly qualified professionals.

TARGETS

BioTekNet's applied research activities, research & development in partnership, research activities on the demand, focus on industrial and technological processes

Build up favourable conditions to attract, in the Campania Region, new industrial investments in the biotechnological field, thus creating new job opportunities;

ACTIVITIES

BioTekNet's applied research activities, research & development in partnership, research activities on the demand, focus on industrial and technological processes which employ biological systems and/or their components, with particular emphasis on the following thematic areas:

- ✓ Production bioprocesses for chemical and pharmaceutical topics
- ✓ Innovative biosensors;
- ✓ Environmental bioprocesses and advanced biological applications in agrofood
- ✓ Biomedical applications.

CONSULTANCY AND ADVANCED TECHNOLOGICAL SERVICES

- ✓ Chemical and structural advanced analysis;
- ✓ Bioinformatics;
- ✓ Fermentation technologies;
- ✓ Water biotreatment ;
- ✓ Start-up companies management tutorial as well as industrial innovative projects development.

EDUCATION

- ✓ Postgraduate education in the field of industrial biotechnologies
- ✓ Training on the job of young researchers and highly qualified SMEs' professionals

STRUCTURE

BioTekNet has been established in 2003.

The regional authority of Campania financed BioTekNet with 15 MEur through EU funding (Operative Regional Program 2000-2006).

BioTekNet evolved into a Consortium crated on December, 14 th 2007.

BioTekNet has a capital of 700,000 Euros and based in Napoli, Via L. De Crecchio, 7, inside the complex of S. Andrea delle Dame, Neapolitan headquarters of the Second University of Napoli (SUN).

Stakeholders of BioTekNet SCpA are Second University of Napoli, largest shareholder, University Federico II, CNR, AORN A. Cardarelli, University of Sannio and the Institute G. Pascale. President of the BioTekNet is the prof. Mario De Rosa, already responsible for the project to realization the CRdC BioTekNet.

Vice-President is the prof. Vincenzo Pavone, Director of the Department of Chemistry of Federico II.

The Director-General is Dr. Amleto D'Agostino, already Project Manager of CRdC in Biotechnology Industrial BioTekNet.

PROJECTS/PRODUCTS

- ✓ Production bioprocesses for chemical and pharmaceutical topics
- ✓ Mini Bioartificial liver
- ✓ Continuous flow automatic peptide/oligonucleotide synthesizer
- ✓ Electrochemical and Fluorescence Biosensors
- ✓ Lactose free dairy products
- ✓ Trehalosyl-dextrins Production from starch exploiting thermophilic enzymes
- ✓ High density production of vaginal probiotics and of methabolites with biotechnological importance
- ✓ High performance air thermostated box
- ✓ An effective gene-expression system for improving the recombinant protein production of "finicky" proteins
- ✓ Low-cost system of laccase production for industrial applications
- ✓ Bioremediation technology for decolourizing and detoxifying industrial coloured wastewaters
- ✓ Advanced Fluorescence Biosensors for analytes of high social interest
- ✓ Carbohydrate active enzymes from thermophilic organisms

Contacts

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