

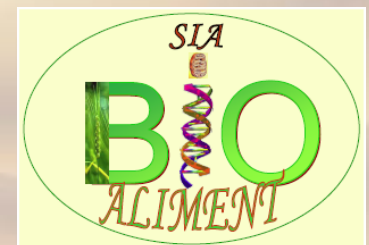


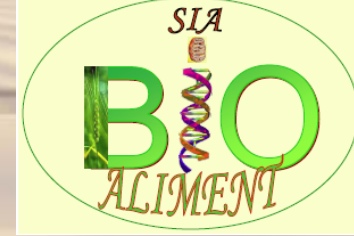
**PROGRAMME “PLATFORM / INTERDISCIPLINARY
FORMATION & RESEARCH LABORATORIES”**

TOPIC

***Integrated Research and Formation Center
for Applied Biotechnology in Food Industry***

BIOALIMENT





CNCSIS CODE : 62

project funded by Ministry of Education and Research
order 4873/08.08.2006

Duration: 2006 – 2008 (24 months)

Budget: 4 570 000 RON = 1 352 000 EUR

Web site: www.bioaliment.ugal.ro

MANAGEMENT&COORDINATION COMMITTEE

Project coordinator: Prof.dr.ing. Gabriela BAHRIM

Administrative coordinator: Conf.dr.ing. Anca NICOLAU

Formative programme coordinator: Conf.dr.ing. Luminița GEORGESCU



Tradition of food engineering school in Galati and sustained development since 70s in

{ INDUSTRIAL MICROBIOLOGY
FOOD BIOTECHNOLOGIES



1990 Bachelor programme in *Applied Biotechnology*
now *Industrial Biotechnology*



Opening of Research Center Establishment
Food & Aquaculture Biotechnologies

Phisico – Chemical & Microbiology Analysis Lab

2001: CNCSIS recognition

2004: national accreditation by RENAR



MIUG Microorganisms Colection

national and international recognition

http://www.wfcc.info/who_list.html



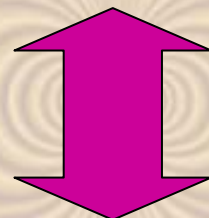
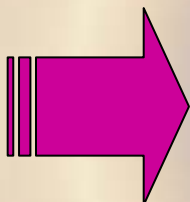
Large number of **PhD thesis** in the field of Food Biotechnology



Many **Biotechnology research projects** won in different competitions



organizing a **modern excellence formation and research center**, that allows integration in research – development – innovation international programmes



creating a **research and academic education pole for food science and technology**, in tune with national and international strategies

O
B
J
E
C
T
I
V
E
S

European strategies

*Food, Agriculture and
Biotechnologies*

*7th Framework Project
of European Union for
R&D 2007 – 2013*

National strategies

Thematic areas

- *CNCSIS Projects*
- *Excellency Projects*

- **Biotechnology of microbial and plant cell culture**
- **Biotechnology of enzymatic preparations**
- **Biotechnology of food bioaditives and bioingredients**
- **Biotechnology of biopreservatives**
- **Functional foods**
- **Biotechnology and food safety**
- **Environmental Biotechnology– Bioremediation**
- **Bioprocesses modeling**

Research & Formation Departments

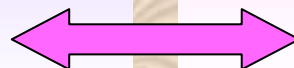
**APPLIED
MICROBIOLOGY**

**BIOCHEMISTRY AND
MOLECULAR
BIOLOGY**

**GENETIC
ENGINEERING**

**FOOD BIOADITIVES
AND
BIOINGREDIENTS**

FUNCTIONAL FOODS



Laboratories

Culture and fermentation lab

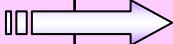
Molecular separation lab

Genetic engineering lab

**Food bioaditives and
bioingredients lab**

Biomass processing lab

Infrastructure Improvement During this Project

2006	2007 	2008
HPLC system	Capillary electrophoresis and mass spectrometry	Orbital shaker with thermostat
Lab bioreactor for microbial cultivation (1L)	Pilot bioreactor modular fermentation	Climatic chamber
Lab bioreactor for plant cultivation (3L)	Stereomicroscope with digital camera	Horizontal gel electrophoresis system
Phase contrast & epifluorescence microscope	Vacuum concentrator	Microtome
REAL TIME - PCR	Ultrafreezer	Rotoevaporator
Spectrophotometer UV – VIS	Ball mill	Aquaspector
Drying oven with temperature recording STERICELL (2 pieces)	Freeze dryer	Laminar Flow Cabinet (2 pieces)
Autoclave with sterilization parameters recording AE 75- DRY (2 pieces)	Laboratory binocular microscopes (30 pieces)	Automated culture media preparation
Drying oven with natural convection system ED 115 (115 L)	Ultra pure water system MILLI Q	Glassware Washing Machine
Centrifuge with cooling system		

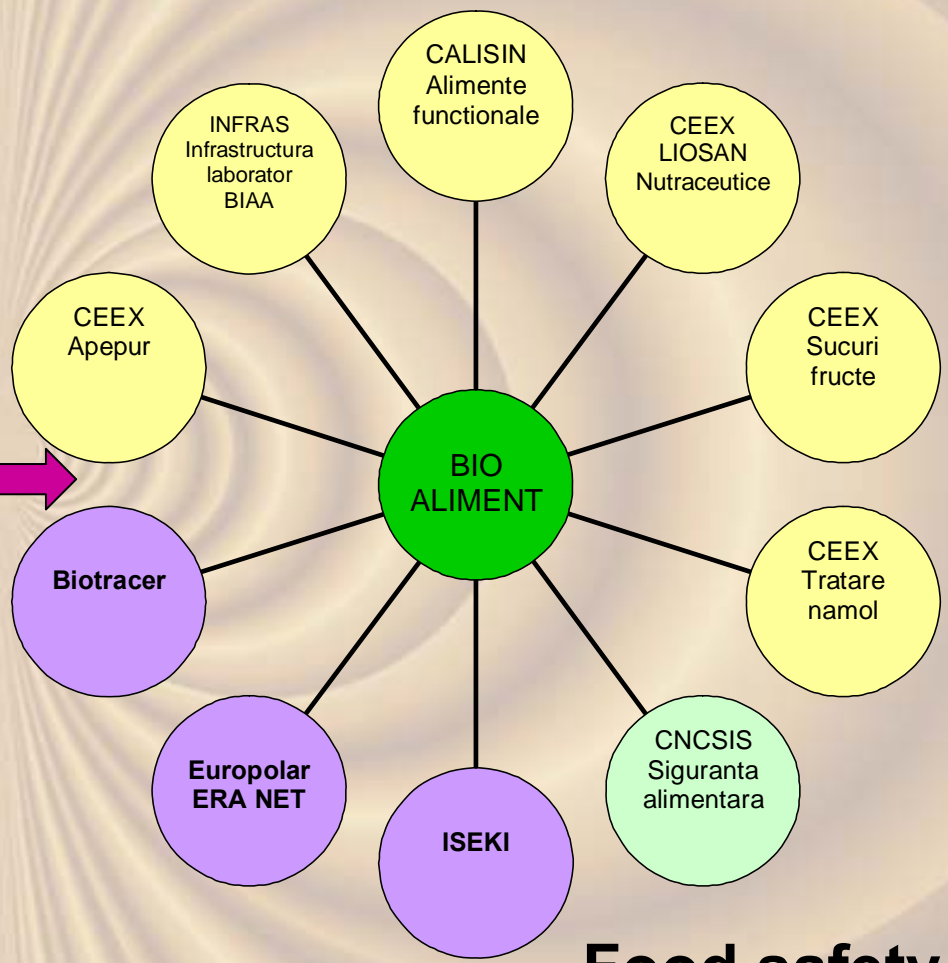


Sustainable strategic development plan of the platform



Sustainability of BIOALIMENT platform is ensured by:

- national & international research grants
- increasing the number of external users
- post – graduation training
- auto financing
- consultancy activities
- sponsors

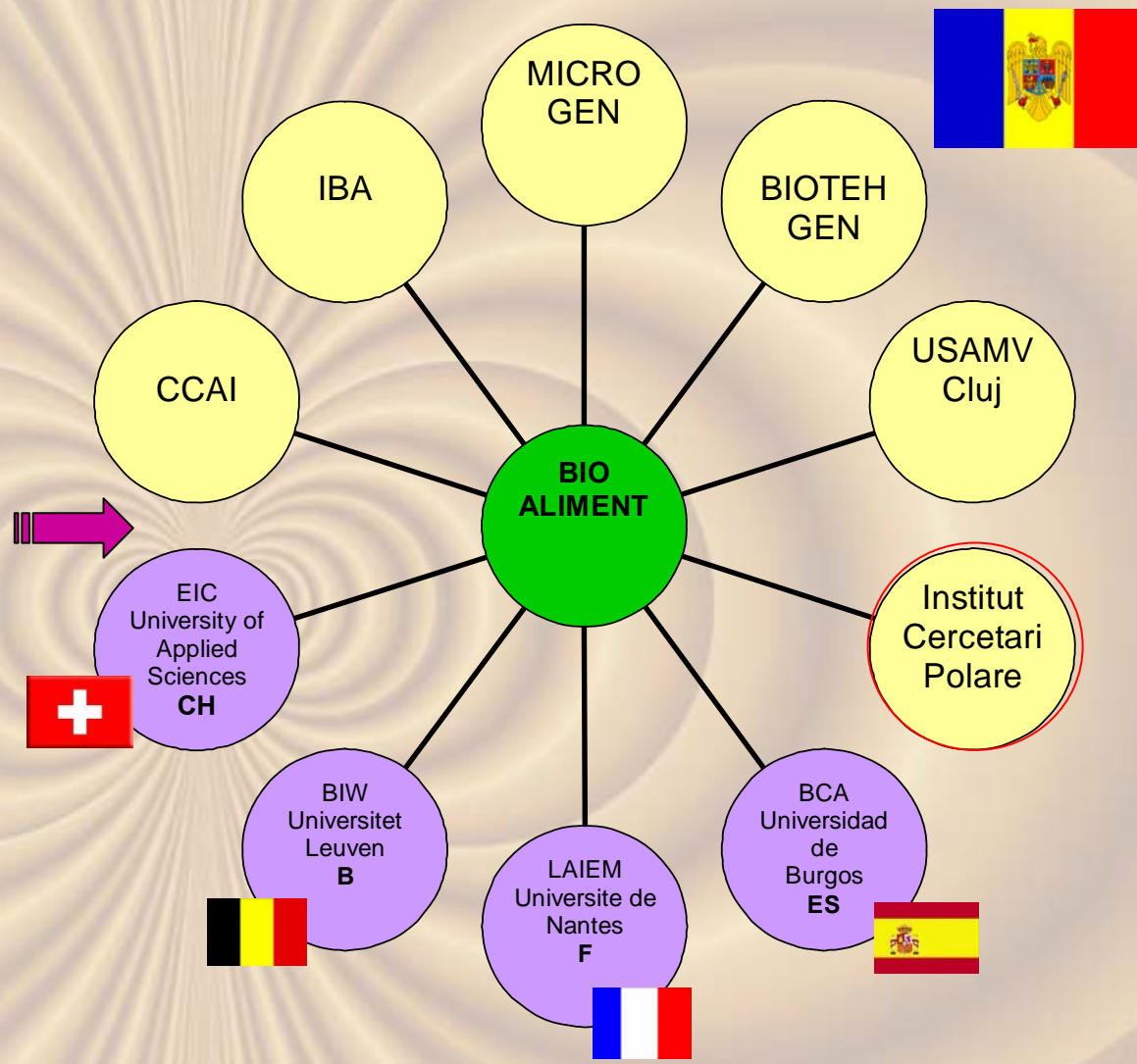


Food safety

**P
A
R
T
N
E
R
S
H
I
P**

**Interdisciplinary
research
collaboration**

**National and
international
research partners**







BIOALIMENT Platform Team

Academia 25

Prof. dr. BAHRIM Gabriela
Conf. dr. NICOLAU Anca
Conf.dr. GEORGESCU Luminita
Prof. dr. SEGAL Rodica
Prof. dr. ALEXE Petru
Prof. dr. IONESCU Aurelia
Conf. dr. BOTEZ Elisabeta
Conf. dr. IORDACHESCU Gabriela
Conf. dr. ZARA Margareta
Conf. dr. TURTOI Maria
Conf. dr. DINICA Rodica
Conf. dr. DIMA Stefan
Conf. dr. BORDA Daniela
Lector dr. BARBU Vasilica
Lector dr. RAPEANU Gabriela
Lector dr. BANU Iuliana
Lector dr. STANCIU Silvius
Lector dr. SAVA Nicoleta
Lector dr. GITIN Liliana
Lector dr. FURDUI Bianca
Asist dr. CREANGA Carmen
Asist. dr. VASILE Aida
Asist drd. LENCO Gabriela
Asist. drd. BLEOANCA Iulia
Asist drd. MORARU Dana

PhD students 6

SOPTICA Florin
BONCIU Camelia
SIMITARU Ina
PASCAL Livia
CONSTANTIN Oana
NEAGU (DAJBOG) Corina

Master Students 6

SCANTEE Mihaela
STOICA Irina
NISIP Veronica
URSE Gigi
OLTEANU Elena
BLEOJU MIHNEA Mihaela

Students – 10

Industrial Biotechnology

LEPADATU Iuliana
RADU Gianina
RADU Florentina
LICUTA Adriana
LEONOV Svetlana
IANCU Catalin
ISTRATE Catalina
MUNTEANU Nicusor
LEPADATU Iuliana
GEANTA Ramona

Colaborators majored in Applied Biotechnologies 2

GHETEU Mariela
COMAN Gigi

eJournal www.bioaliment.ugal.ro/ejournal.htm

INNOVATIVE ROMANIAN FOOD BIOTECHNOLOGY

Volume 1, 2007

INNOVATIVE ROMANIAN FOOD BIOTECHNOLOGY

Biotechnology
Genomics
Modeling Microbial Responses
Biosensors
Food Science and Technology
Health and Nutrition
Food Safety
Waste Bioconversion

Available online at

www.bioaliment.ugal.ro/ejournal.htm

Volume 1 November 2007

Volume 2 March 2008

Volume 3 September 2008

Volume 4 March 2009

Volume 5 September 2009





“We’ve discovered the secret of life”

Francis Crick, 1953

*Even though we did not discover the secret of **LIFE**
at least we could do is to try to make it better*

BIOALIMENT team