

## RESEARCH PROJECTS

1. Biotechnology Action Program (BAP) of the European Community Commission (1986-89). (Contract No BAP 0051-GR). Budget: 12.500.000 Grd. Collaboration within the project Bioreactors with the research groups of:
  1. Prof. M.Rossi, Organic & Biological Chemistry lab., Univ. of Napoli, Italy
  2. Dr M.Legoy, Enzymatic Technology lab., Technol.Univ. of Compiègne, France
  3. Prof. K.Schugerl, Inst. of Chemical Technology, Univ. Hannover, Germany.
  4. Prof. A.Ballesteros, Biocatalysis lab. Univ. of Madrid, Spain.
2. Program SCIENCE of the European Community Commission (1988) (Contract No.SC1-0084). Collaboration with the research groups of:
  1. Dr C.Tondre, Organic Physical Chemistry lab, LESOC, Univ. Nancy I, France
  2. Dr J.C.Ravey, Colloidal Physical Chemistry lab, LESOC, Univ. Nancy I, France.
3. Program BRIDGE of the European Community Commission (1991-94): New ways of Biotransformation in non-aqueous systems for the synthesis of pharmaceuticals. Application of supercritical gases, organic solvents, liquid membranes and microemulsions. (Contract N BIOT - CT90 - 0176 (TSTS)). Budget: 900.000 ECU. Collaboration with the research groups of:
  1. Dr T.Scheper, Inst. of Chemical Technology, Univ. Hannover, Germany.
  2. Prof. A.Ballesteros, Biocatalysis lab. Univ. of Madrid, Spain..
  3. Dr U.Menge, Enzymatic Technology lab, GBF, Braunschweig, Germany.
  4. Dr D.Combes, Biochemical Engineering lab., INSA Toulouse, France.
4. Program PLATON 1992. "Enzymic studies in microemulsions. Structural aspects"(Contract N 02001910092- 15th Collaboration protocol). Budget: 2.000.000Grd. Collaboration with the research groups:
  1. Prof.M.P.Pileni Structure and Activity on interfaces lab., Univ. Paris VI, France.
  2. Dr C.Petit CEA Saclay, Παρίσι, France.
5. Program PLATON 1993. "Enzymic studies in microemulsions. Structural aspects " (16th Collaboration protocol). Budget: 2.000.000 Grd. Collaboration with the research groups of:
  1. Prof.M.P.Pileni Structure and Activity on interfaces lab., Univ. Paris VI, France.
  2. Dr C.Petit CEA Saclay, Paris, France.
6. Program BIOTECH of the European Union (1994-6) (in collaboration with Prof. Kolisis): "Structure-function lipase relationships in low water media". Budget: 55.000 ECU. Collaboration with the research groups of:
  1. Prof.C.Cambillau, Lab. Cristallographie des Macromolécules Biolog., CNRS, Marseille, France.
  2. Dr. M.R.Egmond, Unilever Research Laboratory, Vlaardingen, The Netherlands.
  3. Prof. S.B.Petersen, SINTEF, MR-Center, Trondheim, Norway.
  4. Prof. M.D.Legoy, Lab. de Génie Protéique, Université de La Rochelle, France.
  5. Prof.P.Halling, Dept.Bioscience & Biotechnology, Univer.of Strathclyde, Glasgow, UK.
  6. Prof. J.M.S.Cabral, Lab. de Engenharia Bioquímica, IST, Lisboa, Portugal.
7. Program EPIET II, subprogram 1, EKBAN-691, (1994-7): "Greek Virgin Olive Oil: Origin Productio Technology & Quality". Budget NHRF: 60.000.000 Grd. Coordinator NHRF: A. Xenakis. Collaboration with the research groups of:
  1. ELAIS SA. Oleaginous Company
  2. Dr.E.Chamalidis, Food Department, General State Lab.
  3. Prof. D. Boskou, Food Chem. & Technol. Lab., Univ. of Thessaloniki
  4. Prof. M. Komaitis, Dept of Agricultural Industries, Athens Agricultural Univ.
  5. Dr.A. Koutsaftakis, Inst. of subtropics & olives, Chania, NAGREF.
8. Program EPIET II- subprogram 1, YΠEP- 55 (1996-9) "Development of a new enzymatic immunoassay for the production of clinical laboratory kits". Budget: 13.500.000 Grd. Coordinator NHRF: A. Xenakis
9. Program EPIET II - subprogram 1, ΠΕΝΕΔ -185 (1996-8) "Study of the enzymatic activity of hydrolytic enzymes hosted in water in oil microemulsions" Budget: 10.000.000 Grd. Coordinator NHRF: A. Xenakis
10. Program EPIET II - subprogram 2, Action 2.3. Liaison Offices of Universities and Research Centers. (1996-9) "Development of a Liaison office at the NHRF". Budget: 72.000.000 Grd. Coordinator NHRF: A. Xenakis
11. Program financed by Pharmathen Ltd. EΠE (1997) "Microemulsions for face cleansers" Budget: 1.000.000 Grd. Coordinator NHRF: A. Xenakis

12. Program EPIET II - Subprogram 2, Action 2.1, ΠIABE-97BE93 (1998-2000) “New technology for transdermal drug delivery. Application of microemulsions and organogels”, Contract with Pharmathen Ltd. EΠE. Budget: 67.649.087 Grd. (NHRF 14.000.000 Grd.) Coordinator NHRF: A. Xenakis
13. Program EPIET II - Action 2.4 R & D Networks, Data Bases, (1998-2000) “Enzymes in clinical diagnosis and therapy”, Coordinator: T.Sotiroudis. Budget: 26.000.000 Grd Collaboration with National Drug Organization and the Medical school of the Univ.of Athens
14. Program EPIET II - Subprogram 2, Action 2.1, ΠIABE-99BE5 (1999-2001) “Virgin olive oil: Characterization of the effect of pigments and tocopherols on the oxidative stability and development of a method for the estimation of the oxidative condition”, Contract with: ELAIS SA. Budget: 62.105.000 Grd (NHRF 8.200.000 Grd.) Coordinator NHRF: A. Xenakis
15. Program EPIET II - Subprogram 1, Action 2.3, Nutrition Program 97ΔIATPO-29 (1999-2001) “Study of the presence and bioavailability of phenolic antioxidants in foods of the Mediterranean diet” Contract with: Univ. of Thessaloniki Budget: 95.000.000 Grd (NHRF 17.450.000 Grd.) Coordinator NHRF: A. Xenakis  
Collaboration with the research groups of:
  1. ELAIS SA. Oleaginous Company
  2. Prof.A.Kaffatos, Clinic of preventive medicine & nutrition, Medical School, Univ.of Crete
  3. Prof. D. Boskou, Food Chem. & Technol. Lab., Univ. of Thessaloniki
  4. Prof. I.Gerothanassis, Org.Chem & Biochem. Lab., Chemistry dept., Univ.of Ioannina
16. Program EPIET II - Subprogram 4, Action 4.1, ΠIENEΔ 99EΔ74 (1999-2001) “Biotechnological applications of lipolytic enzymes for the synthesis of high added value products” Contract with: NTUA. Budget: 52.000.000 Grd (NHRF 15.800.000 Grd) Coordinator NHRF: C.Cazianis  
Collaboration with the research groups of:
  1. Assoc.Prof.D.Kekos, Biotechnology lab., Chem.Eng. dept. NTUA
  2. Assis.Prof. J.Smonou, Organ.Chem. lab. Chemistry dept., Univ.of Crete.
17. Program EPIET II - Subprogram 4, Action 4.1, ΠIENEΔ 99EΔ98 (1999-2001) “New materials based on hydrosoluble polymers as carriers of biologically active substances”. Budget: 57.000.000 Grd (NHRF 18.500.000 Grd) Coordinator: A. Xenakis  
Collaboration with the research groups of:
  1. Assoc.Prof. G.Staikos, Inst.Chem.Eng/FORTH, Patras
  2. Dr. A.Malliaris Inst of Physical Chemistry NRC “Demokritos”
18. Program TEI Athens, Cosmetology Dept. School of health professions (1999-2001) “Lipolytic substances in microemulsions”. Coordinator: Prof.E. Protopapa. Budget: 5.000.000 Grd  
Coordinator NHRF: A. Xenakis
19. Program of Greek-Spanish Collaboration (2000-2001) “Application of new immobilized enzymic systems for the synthesis of pharmaceuticals” Coordinator NHRF: A. Xenakis. Collaboration with the research group of Prof. J.V. Sinistera Cago, Dept Organic & Pharmaceutical Chemistry, Faculty of Pharmacy Universidad Complutense de Madrid» Budget: 4.200.000 Grd Coordinator NHRF: A. Xenakis.
20. Program EPIAN ΠIABET 2000 00BE58 (2001-3) “New systems for delivery of drugs and biologically active substances with repetitive and controlled release” Contract with: Pharmathen SA. Budget: 83.436.000Grd. (NHRF 3.350.000 Grd.) Coordinator NHRF: A. Xenakis.
21. Program EPIAN “Supporting research groups for exploiting research results. Finding and valorizing results through spin off company creation. PhaseA’. Preparation of the investment” (2002-3) Κωδ. 01 ΠIΠAΞE 18. Budget: 44.000,00 €
22. Program IKYDA (2002-4) “Enzyme immobilization in microemulsion organogels – Study in supercritical fluids”. Collaboration με Prof. Werner Kuntz Institute of Physical and Theoretical Chemistry, Regensburg University, Regensburg, Germany Budget 10.000,00 €
23. Program «ΣYNEΠΓAΣIΔI» of the Dir.1334/02 – ELAIOURGIKI - OΠIKEΠIIE (2003-4) “Determination of the most significant and usual quality problems encountered in greek olive oils. Evaluation and therapeutic actions” Budget 20.000,00 €  
Collaboration with the research groups of:
  1. ELAIOURGIKI SA.
  2. Assos.Prof.M.Tsimidou, Food Chem. & Technol. Lab., Univ. of Thessaloniki
  3. As.Prof.E.Psomiadou, Food Chem lab., Chemistry dept., Univ.of Ioannina
24. Program «CRETE - COOPERATION» of the Dir.1334/02 – Sitia, Mirampelo, Peza and Milopotamos Unions- OΠIKEΠIIE (2004-5) “Study of parameters affecting the quality of greek virgin olive oils. Degree of maturity and natural antioxidants content” Budget 29.759,52 €  
Collaboration with the research group of Prof N. Chaniotakis Chemistry dept., Univ.of Crete

25. Program EIIAN - Liaison Offices of Universities and Research Centers. (2005-8) "Development of a Liaison office at the NHRF". Budget: 300.000,00 € Coordinator NHRF: A. Xenakis
26. Program IIABET 2005: "Production of high added value products by the biotechnological application of lipases as biocatalysts" Contractor: NEOKEM SA Budget: 35.000,00 €. Coordinator NHRF: A. Xenakis
27. Program EIIAN Franco Hellenic Collaboration 2006-7 "Biocatalysis by immobilized enzymes in mesoporous materials for the biotechnological production of high added value products" Budget: 12.400,00 €. Coordinator NHRF: A. Xenakis  
Collaboration with the research group of: Dr M.J. Stébé, Equipe Physico-chimie des Colloïdes (UMR 7565) Faculté des Sciences Université de Nancy
28. Program EIIAN Cyprus Hellenic Collaboration 2006-7 "Quality and stability of virgin olive oil. The role of endogenous enzymes and antioxidants - biotechnological applications" Budget: 11.740,00 €. Coordinator Dr V. Papadimitriou  
Collaboration with the research group of: Prof. Ep. Leondidis, Chemistry Dept. University of Cyprus, Nicosia
29. MED Programme 2009-2011 "Mediterranean Transnational Technology Transfer - MET3" Budget: 360.000 €
30. South East Europe - Transnational Cooperation Programme 2009-2011, "Solutions and Interventions for the Technological Transfer and the Innovation of the Agro-Food Sector in the South East Regions", SEE/A/160/1.1/X Budget: 238.118 €
31. MED Programme 2010-2012 «IP Awareness and Enforcement: innovative services for Mediterranean SMEs -IP-SMEs» No. 1G-MED08-309 (2010-2) Budget: 170.000 €
32. Programme ΕΣΠΑ "Cooperation" 2010-2. "Development of nanoemulsions as new materials for managing phytoprotective products to reduce the environmental charge" Budget: 449.040,00 € (NHRF 147.743€). Coordinator Dr V. Papadimitriou.
33. Programme CAPES, Ministry of Education, Brazil. 2010-4. "Nanobiotechnology. Lipase activity" Budget: NHRF 40.000 €.

*Services to Industries*

Total income from research services: 60.000 €