

Biomimetics & Nanobiotechnology

Full list of collaborations with industries

Collaboration with Food Industries

ELAIS SA

- Common Program ΠΑΒΕ 99 (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"
- Common Nutrition Program (1999-2001) "Study of the presence and bio-availability of phenolic antioxidants in foods of the Mediterranean diet"
- Common Program ΕΠΕΤ ΙΙ ΕΚΒΑΝ 691 (1994-7): "Greek Virgin Olive Oil: Origin Production Technology & Quality".
- Submission ΥΠΕΡ 95 "Enzymatic biotransformation of free fatty acids to oligoglycerids"
- Submission ΠΕΝΕΔ 2003 "Virgin Olive Oil: stability and minor components. Application to the production of improved quality products"
- Submission ΠΕΠ Attica 2005 "Role of Mediterranean diet and of some specific components on factors affecting cardiovascular diseases"
- Submission ΕΣΠΑ Cooperation 2009 "Application of metabolomic and lipidomic analysis for the development of cardiovascular biomarkers for metabolic syndrome patients. Dietary intervention with innovative foods within the Mediterranean diet model"
- Provision of research services: Determination of antioxidant capacity of various products.

JOTIS SA

- Common Program ΕΣΠΑ - "RIS3-AGROFOOD" (2019-21): "Study and exploitation of olive oil as innovative raw material for special industrial applications to baby food products".
- Common Program ΠΑΒΕΤ 2013 (2014-5): "Application of Nanoemulsion Technology to food products based on Oil in Water Emulsions such as vegetable cream and fudge icings" (BeNeFIC)
- Submission ΕΠΕΤ ΙΙ ΕΚΒΑΝ "Effect of high pressure on biological substances and application to the food industry"

- Submission ΠΑΒΕΤ 2013. "Exploitation of Greek vinery waste for the development of high added value traditional foods"
- Submission Greek-Germany Cooperation «Food grade surfactant-free microemulsions for healthy and safe food preparations»

UNILEVER SA

- Common Program BIOTECH of the EU (1994-1996) "Structure-function lipase relationships in low water media"

ELAIOURGIKI SA

- Common Program of the Dir.1334/02 - ΟΠΕΚΕΠΕ (2003-4) "Determination of the most significant and usual quality problems encountered in greek olive oils. Evaluation and therapeutic actions"

MINERVA S.A.

- Provision of research services: Determination of antioxidant capacity of various products.

HARLAFTIS Ltd.

- Submission ΠΕΠ Attica 2005 "Role of Mediterranean diet and of some specific components on factors affecting cardiovascular diseases"
- Submission ΕΣΠΑ Cooperation 2009 "Application of metabolomic and lipidomic analysis for the development of cardiovascular biomarkers for metabolic syndrome patients. Dietary intervention with innovative foods within the Mediterranean diet model"

PEZA UNION

- Common Program "Cretan Collaboration" of the Dir.1334/02 - ΟΠΕΚΕΠΕ - (2004-5) "Study of the parameters related to the quality of virgin olive oil; effect of the maturity degree on the natural antioxidant content."
- Submission "Capacities program for SMEs" "Nanostructure of veiled virgin olive Oil – Structure and stability studies of its Colloidal Emulsions"

SITIA UNION

- Common Program "Cretan Collaboration" of the Dir.1334/02 - ΟΠΕΚΕΠΕ - (2004-5)
"Study of the parameters related to the quality of virgin olive oil; effect of the maturity degree on the natural antioxidant content."

MIRAMBELO UNION

- Common Program "Cretan Collaboration" of the Dir.1334/02 - ΟΠΕΚΕΠΕ - (2004-5)
"Study of the parameters related to the quality of virgin olive oil; effect of the maturity degree on the natural antioxidant content."

MYLOPOTAMOS UNION

- Common Program "Cretan Collaboration" of the Dir.1334/02 - ΟΠΕΚΕΠΕ - (2004-5)
"Study of the parameters related to the quality of virgin olive oil; effect of the maturity degree on the natural antioxidant content."

KNORR – Best Foods SA

- Provision of research services: Determination of antioxidant capacity of various products. OLEASTRO Ltd, Cyprus - Submission "Capacities program for SMEs"
"Nanostructure of veiled virgin olive Oil – Structure and stability studies of its Colloidal Emulsions"

OLEASTRO Ltd, Cyprus

- Submission "Capacities program for SMEs" "Nanostructure of veiled virgin olive Oil – Structure and stability studies of its Colloidal Emulsions"

EVOIKI ZIMI SA

- -Submission ΕΣΠΑ Cooperation 2011 "Functional Dough Products" BREAD & DOUGH

ALIBINISIS SA

- Submission ΕΣΠΑ Cooperation 2011 "Functional Dough Products"

ALGAE SA

- Common Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) "CO2 Biotransformation to high value bioproducts via sustainable microalgae cultures (CO2-BioProducts)".
- Submission ΕΣΠΑ Cooperation 2011 "Functional Dough Products" Collaboration with Chemical Industries

DSM Food Specialties BV, Netherlands

- Submission Program Horizon 2020. "Innovative Colloidal Processes for Nanocapsules and Nanomatrices in Industrial Applications"

PAGONIS Dairy

- Common Program National Strategic Reference Framework Program, "Application of nanotechnology for the development of sunscreens using natural extracts" (Nano-UV-Extracts). Operational Program Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK).
- Submission Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) "Omics" technologies and nanotechnology as tools for the development of innovative functional dairy products from sheep and goat milk from Greek autochthonous breeds

THYMELIS DAIRY Mytilene

- Submission Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) "Omics" technologies and nanotechnology as tools for the development of innovative functional dairy products from sheep and goat milk from Greek autochthonous breeds

ZWC CONSULTING

- Submission Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) Development of novel cosmetics using the "vine tears" from Greek vine varieties through their encapsulation in nanoemulsions

GATSOS – PAPAPETROS WINERY

- Submission Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) "Development of a liquid nanosystem for the encapsulation of herbal preparations rich in carnolic acid and carnosol as a product with antioxidant activity for sublingual administration and enhanced access to areas with biological barriers"

The Mighty Kitchen, Cyprus

- Provision of research services: Development of edible emulsions.

Collaboration with Chemical Industries

MERCK

- Common 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.

VIORYL S.A.

- Common Program ΕΣΠΑ "Cooperation" 2010-2. "Development of nanoemulsions as new materials for managing phytoprotective products to reduce the environmental charge"
- Submission ΠΕΠ Attica 2005: «New Technologies for combating the urban green enemies»

NEOKEM S.A.

- Common Program ΠΑΒΕΤ 2005: (2006-7) High added value products through the biotechnological application of lipases as biocatalysts

MEDICON AE

- Common Program ΥΠΕΡ (1996-9) "Development of a new enzymatic immunoassay for the production of clinical laboratory kits"

- Submission ΕΠΕΤ II ΕΚΒΑΝ-97

IMERYS MINERALS Ltd., United Kingdom

- Submission Program Horizon 2020. "Innovative Colloidal Processes for Nanocapsules and Nanomatrices in Industrial Applications"

TECHWAX LIMITED, United Kingdom

- Submission Program Horizon 2020. "Innovative Colloidal Processes for Nanocapsules and Nanomatrices in Industrial Applications"

NANOGAP, Spain

- Submission Program Horizon 2020. "Innovative Colloidal Processes for Nanocapsules and Nanomatrices in Industrial Applications"

CLEANWAY SA

- Common Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) "*Application of nanotechnology for the development of sunscreens using natural extracts*" (Nano-UV-Extracts)

Collaboration with Pharmaceutical Industries

PHARMATHEN SA.

- Licensing of a Patent
- Common Program for the development of cosmetics
- Common Program ΠΑΒΕ 97 (1998-2000) "New technology for transdermal drug delivery. Application of microemulsions and organogels"
- Common Program ΠΑΒΕΤ 2000 (2001-3) "New systems for delivery of drugs and biologically active substances with repetitive and controlled release"

RESCO SA

- Submission ΠΕΝΕΔ 2003 "Development of nanodispersions of biologically or pharmaceutically active substances with antioxidant or anticancerogenic activity"

PDT Cosmetici Srl., Italy

- Submission Program FP7 "Capacities program for SMEs" "Nanostructure of veiled virgin olive Oil – Structure and stability studies of its Colloidal Emulsions"

ICB Pharma, Poland

Submission Program Horizon 2020. "Innovative Colloidal Processes for Nanocapsules and Nanomatrices in Industrial Applications"

SYNTHEZYME LLC, USA

- Submission Program Horizon 2020. "Innovative Colloidal Processes for Nanocapsules and Nanomatrices in Industrial Applications"

QUALIA PHARMA

- Common Program National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation "Nanoemulsions of plant oils with moisturizing and insect repellent properties"

ANTISEL S.A.

- Submission Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) Exploitation of anthocyanin extracts from winemaking waste for the development of a nasal administration formulation with neuroprotective action

INNOCENTIVE

- Submission Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) Development of novel cosmetics using the "vine tears" from Greek vine varieties through their encapsulation in nanoemulsions

PHARMAXEL

- Submission Program "National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation" 2014-2020 (EPAnEK) "Development of a liquid nanosystem for the encapsulation of herbal preparations rich in carnosic acid

and carnosol as a product with antioxidant activity for sublingual administration and enhanced access to areas with biological barriers”

Kanne Brottunk, GmbH

- Submission Program PRIMA “ Exploring the Consequential Resistance to Antibiotics Misuse and Development of Alternative Antimicrobials for Sustainable Farming

PerNaturum GmbH

- Submission Program PRIMA “ Exploring the Consequential Resistance to Antibiotics Misuse and Development of Alternative Antimicrobials for Sustainable Farming

OXFORD BIOLABS S.A.

- Research Service: Development of improved formulation of a microemulsion containing hair care product

Collaboration with Other companies

PUBLIC POWER CORPORATION (ΔΕΗ)

- Common Program “National Strategic Reference Framework, Operational Program Competitiveness, Entrepreneurship and Innovation” 2014-2020 (EPAnEK) “CO₂ Biotransformation to high value bioproducts via sustainable microalgae cultures (CO₂-BioProducts)”.

Consultants Companies :

KINNO Ltd

- Collaboration in 3 projects (subcontractor)

RISE SA

- Collaboration in 1 project (subcontractor)