

Nadiya Boyko - Principal Investigator

Professor at Uzhhorod National University

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Summary

A mover and shaker of research frontiers.

Experience

Professor - Head of Laboratory of Molecular Microbiology and Mucosal Immunology at Uzhhorod National University

September 2010 - Present (4 years 4 months)

Head of Laboratory of Molecular Microbiology and Mucosal Immunology

Coordinator of UNTP “Agro-Food”

Chief scientific officer of Cassovia Life Sciences

Lecturer, principal investigator

Chief Scientific Officer at Cassovia Life Science

2013 - 2014 (1 year)

Visiting Research Scientist at University of Pennsylvania

January 2000 - September 2005 (5 years 9 months)

Research and Teaching activity

Publications

Novel Composite Antimicrobials in Medicine and in Agro-Food Chain

International Congress of the Society for Microbial Ecology and Disease. Conference proceeding, Kosice, Slovakia 2013

Authors: Nadiya Boyko - Principal Investigator

Microbiological and immunological markers in diagnostic of human metabolic diseases. Biotechnology: state of the art and prospect of development

Congress Proceedings, Moscow, Russia, 19–22 th March, 2013, 1, 338–340. March 19, 2013

Authors: Nadiya Boyko - Principal Investigator

Identification of microorganisms that may contribute to the safety and quality of traditional foods and beverages consumed in the Black Sea region

2nd Kiel Food Science Symposium. – Kiel, 22-23 May 2012 – p. 19. May 12, 2012

Authors: Nadiya Boyko - Principal Investigator, Paul Kroon

Traditional Foods of Black Sea Region countries as potential sources of prebiotic compounds and probiotic microorganisms

International Scientific Conference on Probiotics and Prebiotics. – Kosice, 12th -14th June 2012 — p. 16-17 2012

Authors: Nadiya Boyko - Principal Investigator, Paul Kroon, Paul Finglas, Francesca Danesi

Microbiological and immunological aspects of traditional foods

Traditional food international Conference, 4-5 October 2012. – p. 34-35. 2012

Authors: Nadiya Boyko - Principal Investigator

Host-bacterial interaction and influence of beneficial bacteria on mucosal immune responses against opportunistic/enteric pathogens: possible cellular molecular mechanisms and practical approaches

Gnotobiology and the XXXIVth Congress of the Society for Microbial Ecology and Diseases. – Navios Yokohama, Yokohama – Japan. – November, 20-23, 2011. P. 109-111. June 7, 2011

Authors: Nadiya Boyko - Principal Investigator

Traditional foods of plant origin maintain the mucosal immune response via its prebiotic effect on gut microbes

European nutrition conference fens Madrid 2011. – Material Proceedings. – p.5. May 8, 2011

Authors: Nadiya Boyko - Principal Investigator

Key-microorganisms in food quality / food safety of traditional dishes and drinks prioritized within BaSeFood project

11th European nutrition conference Madrid – Proceedings – p233 May 10, 2011

Authors: Nadiya Boyko - Principal Investigator

Key Microbial Players in Initiating, Developing and Maintaining of the Specific Immune Response in the Mucous Sites: From Theory to Practice

GME 2010, 9-11 November 2010, Conference Proceedings # Kosice, 2010. # P. 10—11. 2010

Authors: Nadiya Boyko - Principal Investigator

Molecular-cellular mechanisms involved in hemostatic regulation of mucosal barriers caused by comensal bacteria and their antigens

The 10th Americas, 7-10 July 2010. # Philadelphia PA, USA, 2010. # P. 24.

Authors: Nadiya Boyko - Principal Investigator

The role of mucosal microbiota in the development and maintenance of mucosal immune system

Conference Proceedings, Food and Function, IC. – 2009 – p17 May 1, 2009

Authors: Nadiya Boyko - Principal Investigator

Bacilli and Lactobacilli based preparations in regulation of the thyroid gland functions

MicroCad. – Health Science. – NKTH. – 2009. – #. 13-17. 2009

Authors: Nadiya Boyko - Principal Investigator

The main self-protecting mechanisms of host mucosal response maintained by benefit bacteria

Proc. International Probiotic Conf. “Probiotics for the 3rd Millenium” (2008, High Tatra). – 2008. – #. 9. 2008

Authors: Nadiya Boyko - Principal Investigator

Commensals of mucous surfaces used to control nosocomial diseases: efficacy and possible acting mechanisms

ICID Proceedings, (Kuala Lumpur, Malaysia, 2008). – 2008. – #. 138. 2008

Authors: Nadiya Boyko - Principal Investigator

Is bacterial translocation depending of IgA production in the gut?

J. Immunology. 2006, 176: 222 2006

Authors: Nadiya Boyko - Principal Investigator

Projects

BaSeFood - Sustainable exploitation of bioactive components from the Black Sea Area traditional foods

April 2009 to Present

Members: Nadiya Boyko - Principal Investigator

BaSeFood (Sustainable exploitation of bioactive components from the Black Sea Area traditional foods) is a collaborative research program funded by the European Commission within Theme 2: Food, agriculture and fisheries, and biotechnology of the Seventh Framework Programme.

From an operative point of view, BaSeFood will contribute at scientifically studying bioactives of Black sea area traditional foods by means of rigorous analytical and biological assays, in the context of unifying methodologies and data acquisition, but also considering a vast array of characteristics of traditional foods and consumers issues, in order to put health claims in a favourable context, to be properly understood by people and exploited by stakeholders.

JSO-ERA - Joint Support Office for Enhancing Ukraine's Integration into the European Research Area, EuropeAID/127891/C/SER/UA

January 2009 to Present

Members: Nadiya Boyko - Principal Investigator

Capacity building and institutional strengthening of the Ministry of Education & Science and of the National Information Centre for Ukraine-EU Science & Technology Cooperation.

Enhance participation of the Ukrainian R&D institutions and SMEs in the EU programmes in the field of innovation and technology transfer.

Bi-LAT - Enhancing the BILATeral S&T Partnership with UKRraine * Advanced INnovative Approach

September 2008 to Present

Members: Nadiya Boyko - Principal Investigator

Network creation, Platform establishing

BILAT-UKR*AINA aims to provide a framework to foster cooperation in Research, Technological Development and Innovation (RTDI) between the European Union (EU) and Ukraine. It is firmly based on existing cooperation of the main stakeholders and builds up on the results of previous projects funded under

FP7 dealing with Ukraine, in particular BILAT-UKR (2008-2012).

Capinfood - Improving the enabling environment and public awareness for innovation in the South-East-European food sector through transnational collaboration

March 2011 to Present

Members:Nadiya Boyko - Principal Investigator

Improving the enabling environment and public awareness for innovation in the South-East-European food sector through transnational collaboration

BacFoodNet - A European Network For Mitigating Bacterial Colonisation and Persistence On Foods and Food Processing Environments

August 2012 to Present

Members:Nadiya Boyko - Principal Investigator

A European Network For Mitigating Bacterial Colonisation and Persistence On Foods and Food Processing Environments

Persistent bacteria on foods and processing sites are of great concern in food industry causing continuous recontamination and safety problems. Removal of persistent bacteria and biofilms requires costly efforts leading to lost productivity and environmental issues. There is a need to combine and re-evaluate current scientific knowledge on persistence of bacteria and to introduce new engineering approaches for controlling pathogens. The objective of this Action is to enable the development/promotion of targeted solutions for controlling risks associated with persistent bacteria and biofilms in the food industry. It involves a multidisciplinary network which will expand our knowledge on colonization and persistence, and validate/identify appropriate methods for monitoring colonisation patterns. Known and emerging intervention methods will be explored and re-evaluated. The knowledge obtained will be promoted to the relevant food industries and the scientific community.

Languages

Russian

(Native or bilingual proficiency)

English

(Professional working proficiency)

Skills & Expertise

Lifesciences

Microbiology

Science

Genetics

R&D

Biotechnology

Molecular Biology

Biochemistry

Protein Purification

Research

Bioinformatics
Molecular Genetics
European Union
Food
Innovation Management
Cell Biology
Technology Transfer
Western Blotting
Analysis
Food Safety
Laboratory
Protein Expression
In Vitro
Immunology
Product Development
PCR
Cell Culture
Economics
Teaching
Genomics
Microscopy
DNA
ELISA
qPCR
Food Microbiology
Statistics
Chemistry
Protein Chemistry
Food Science
Cell
Agriculture
Sustainability
Nutrition
Scientific Writing
Flow Cytometry
Computational Biology
EU
Production
Innovation in food, agriculture and health, medical microbiology, immunology
FACS, ELISA, ELISPOT, Western Blot, RIA, fragment culture, etc.

Education

Uzhhorod National University

Master of Arts (M.A.), Biology/Biological Sciences, 1982 - 1987

Activities and Societies: Networks:

- 1) Food Cluster Initiative
- 2) THE FOOD & HEALTH NETWORK (FHN)
- 3) EuroFIR

Societies:

- 4) Society of Mucosal immunology (SMI)
- 5) Anaerobe Society (AS)
- 6) European Society if Infectious Diseases (ESMID)
- 7) Society of Microbial Ecology and Diseases (SOMED)
- 8) Society of Microbiologist of Ukraine (FEMS)
- 9) Society of Allergologist and Immunologists (Ukraine)

Projects (FP7, SEE)

1. BaSeFood
 2. Bi-LAT
 3. JSO-ERA
 4. Capinfood
 5. BacFoodNet
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Interests

Traveling, yoga, classic literature

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[Contact Nadiya Boyko on LinkedIn](#)