

INTERNATIONAL BROKERAGE EVENT



BOOKLET OF PITCH DESCRIPTIONS

13th February 2025

Hotel Four Points by Sheraton Ljubljana Mons, Slovenia



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA VISOKO ŠOLSTVO,
ZNANOST IN INOVACIJE



NAČRT ZA
OKREVANJE
IN ODPORNOST



Financira
Evropska unija
NextGenerationEU

The event is organized within the framework of the project KR PAN - Fostering research support and activities to improve the performance on European research projects, co-financed by the Republic of Slovenia, the Ministry of Higher Education, Science, and Innovation, and the European Union – NextGenerationEU

Contents

1. Artificial Cu(II) Hydrogels: Advanced (Bio)catalysis and Sensing	3
2. Eco-friendly Delivery Systems for Fertilizers	3
3. Animal Models in Translational Studies of Metabolic Syndrome	4
4. Role of Forest Microbiome in Forest Production and Biosafety	4
5. Electrochemistry at the Service of Biotechnology	5
6. Electrospun Nanohybrid Biopolymers fOr Smart Edible Coating (ENBOSEC)	6
7. Digital Food Production: Overcoming Challenges of Fiction in Reality	6
8. Disturbance-based Management of Forest for Increased Resilience and Adaptation	6
9. Biodiversity is Important	7
10. Leveraging Underexplored Alternative Proteins as a Pathway Toward Creation of Healthy and Sustainable Food Systems (UPSTREAM)	7
11. Smart Packaging for a Sustainable Food Supply Chain with Digitalized Monitoring of Critical Temperature	8
12. Bioactive Compounds from Food Byproducts: Novel Approaches	8
13. An International, Interdisciplinary, and Transdisciplinary Approach for Addressing Barriers and Overcoming Obstacles in the Transformation Towards a Sustainable Food System	9
14. Are Natural Dietary Supplements Safe?	9
15. Nutritional Needs and the Role of Health Professionals in the Education of the Young Population	10
16. Harnessing Thermophiles for the Preparation of Deuterium-Labelled Organic Compounds	11
17. Exploring Health Effects of Plant Food Bioactives Using Integrative Multi-Omics Approach	12
18. Innovative and Sustainable Solutions in Freshwater Fish Processing	12
19. Collaborating for a Cleaner Future: Pollution Removal and Sustainable Fertilizers	13
20. Analysing the Broader Health, Environmental and Social Benefits of Active Living, with a Particular Focus on Children, Young Adolescents and Significant Adults, and Comparing Different Rural and Urban European Regions	14
21. Mediterranean Algae as a Source of Sustainable Functional Food	14
22. Strategies for the Conservation of Threatened Plant Species and Communities in Europe	15
23. Enhancing Governance and Support Systems for Sustainable Geographical Indications in the EU	15
24. Hybrid foods in sustainable food systems	16
25. Digital Holographic Microscope for Automatic Analyzing of Liquid Samples	16
26. Integrating Insect Bioconversion for Sustainable Circular Food System	17
27. The Broad Utility of Hemp Cultivation and Processing	18

Notes: _____

17. Exploring Health Effects of Plant Food Bioactives Using Integrative Multi-Omics Approach

Prof. Tatjana Ruskovska

Faculty of Medical Sciences, Goce Delcev University, Stip, North Macedonia

E-mail address: tatjana.ruskovska@ugd.edu.mk

Proposed project summary: Health-promoting dietary patterns, such as the Mediterranean diet, are based, among other factors, on the consumption of substantial amounts of plant-based foods. These foods are rich in macronutrients, dietary fibers, and a variety of bioactive compounds including (poly)phenols, phytosterols, and carotenoids. Studies have shown that some of the health-promoting properties of plant-based foods can be attributed to these bioactive compounds. The biological effects of certain plant food bioactives are well studied; however, many aspects and bioactives still require further investigation. This need also applies to new, innovative foods with potential to be incorporated into the human diet.

Programmes or calls of interest: In this context, there is considerable scope for developing collaborative European projects aimed at exploring the under-researched aspects of plant food bioactives by employing cutting-edge analytical multi-omics technologies and integrative bioinformatic approaches.

Potential role in consortium: My role in such a consortium would involve identifying the molecular targets and mechanisms of action of plant food bioactives, focusing on their positive effects on human health.

Notes: _____

18. Innovative and Sustainable Solutions in Freshwater Fish Processing

Dr. Sanita Sazonova

Fish Processing Biotechnology Study and Research Center, University of Life Sciences and Technologies, Latvia

E-mail address: sanita.sazonova@lbtu.lv

Proposed project summary: Aquaculture of freshwater fish is an important source of nutrients worldwide, so the quality and safety of fish meat is receiving increased attention. Statistical data show that the volume of aquaculture fish sales has increased in Latvia in recent years. Several freshwater fish (e.g. crucian carp, pike, tench, etc.) are available in Latvia, which are used for food, but compared to other fish, they have more fish bones, which complicates the processing process and narrows the range of buyers. The aim of the project is to find out the quality of fish grown in pond farms (microbiological and nutritional value) and its changes after pre-treatment, producing semi-finished fish meat. The most suitable fish processing technology has been found. The research is multidisciplinary and creates synergies between aquaculture (agriculture), veterinary medicine and food engineering. The knowledge gained in