

Organisation



UNIVERSITY OF
AGRONOMIC
SCIENCES AND
VETERINARY
MEDICINE OF
BUCHAREST -
FACULTY OF
BIOTECHNOLOGIES



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Expression of interest

of University of Agronomic Sciences and Veterinary Medicine of Bucharest to join a
Consortium on HORIZON EUROPE calls

HORIZON-CL6-2024-BIODIV-01 Promoting pollinator friendly systems
HORIZON-CL6-2024-FARM2FORK-01-07 Impact of the development of novel foods based on alternative sources of proteins
HORIZON-CL6-2024-FARM2FORK-02-5-two-stage Animal nutritional requirements and nutritional value of feed under different production management conditions
HORIZON-CL6-2024-FARM2FORK-01-9 Microbiome for flavour and texture in the organoleptic dietary shift
HORIZON-CL6-2024-FARM2FORK-01-16 Microbiomes fighting food waste through applicable solutions in food processing, packaging and shelf life
HORIZON-CL6-2024-FARM2FORK-01-2 New healthy and sustainable food products and processes

Organization details:

Country: Romania

Name of the organization: Faculty of Biotechnology - Pharmaceutical Biotechnology Lab

Contact person:

Lecturer Dr. Dinu Laura-Dorina

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Short description of the organization

Our research group has experience in the field of **microbiome applications in food and biodiversity** and focused on human, animal&insects microbiome studies, development of healthy and

sustainable foods and supplements from agro-waste, development of nutritional animal feed, microbiome solution for food packaging to reduce spoilage, food safety.

Main researches:

Head of the Laboratory: Professor Habil. Dr. Vamanu Emanuel (H-index 24)

<https://scholar.google.com/citations?user=r06u0KkAAAAJ&hl=en>

Lecturer Dr. Dinu Laura-Dorina (H-index 8)

<https://scholar.google.com/citations?user=MWtL9EIAAAAJ&hl=en>

The team was involved in various national research projects and few international projects (EUREKA) with a wide range of partners and stakeholders. The projects were related to the scientific area, as well as to the development of new supplements that modulate the human gut microbiota:

- *Ro-Bio-Mush* - mushroom extract to modulate human intestinal microbiota)
- *GreenBiom* product line (obtained in collaboration with Anoom Laboratories)

The research infrastructure available allows microbiological, molecular biology and chemical analysis. Moreover, using gastrointestinal simulating system (GIS technology) developed in our laboratory and the microbiota collection (ColHumB) the group provides the following services:

1. *in vitro* study on the viability of the microbial strains from probiotic/postbiotic/synbiotic products during the GI transit and their effect on the microflora modulation and the metabolic profile;
2. *in vitro* study on the effect of functional products/nutraceuticals, different bioactive food/plant ingredients, new food/feed products, and pharmaceutical products or supplements and their potential beneficial effect on human/animal microflora (normal and pathological);
3. study on the bioavailability of the products in the GI tract (absorption, activation) and their effect in the human GI tract.

Also, the research group focus is the development of microbiome-based applications for food packaging aiming to reduce/control/limit spoilage microorganisms in perishable foods to extend shelf life.

Possible main contributions of organization to the project proposal

➤ Task leader

We are looking to collaborate with partners which are willing to Lead the Call and where we could participate as partners or work package/task leader.

We offer our expertise of over 20 years of research experience, knowledge, network capacity (especially, a wide European network) and the use of the knowledge accumulated during the project in university education.

Specific expertise relevant to the call topic

Significant contribution added to the project proposal: team, knowledge&expertise, research infrastructure, GIS technology (<https://gissystems.ro/gis-technology/>). The specific expertise of our team is related to value creation in different product streams and help improve sustainability.

Please do not hesitate to contact us for further discussion.