



Horizon Europe Brokerage Event
Cluster 6 Calls 2025

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Sustainable innovation focused on intelligent transformation of agri-food by-products into high quality inputs for a greener future and increased quality of life

Arabela Elena Untea

secretariat@ibna.ro
arabela.untea@ibna.ro

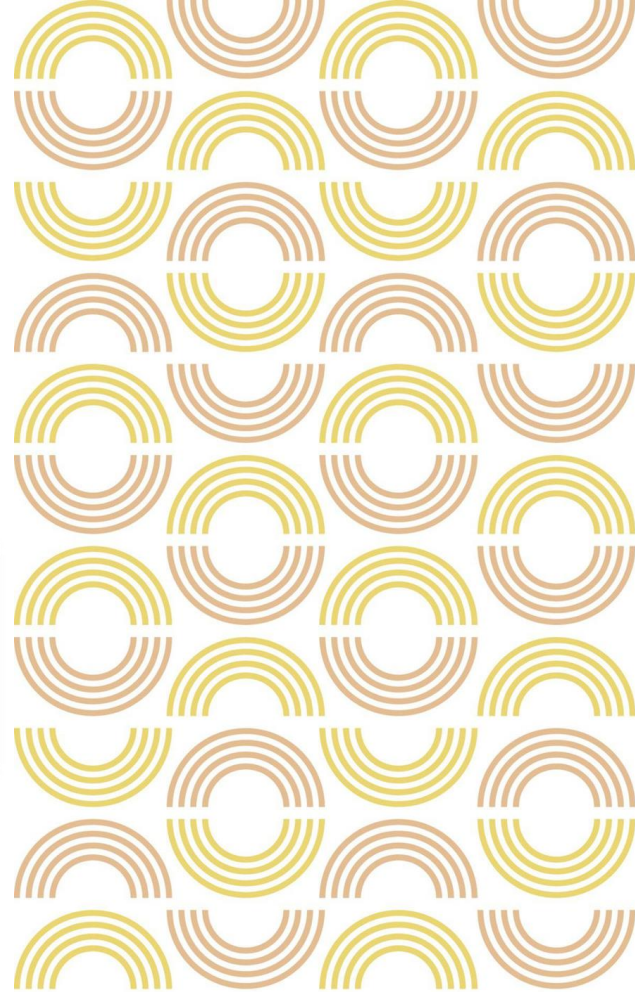


The National Research - Development Institute for Biology
and Animal Nutrition (INCDBNA-IBNA Balotești, Romania)



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Topic(s) addressed:

- *HORIZON-CL6-2025-01-ZEROPOLLUTION-07*: **Reducing pollution from the food and drink industries**
- *HORIZON-CL6-2025-02-FARM2FORK-03-two-stage*: **Making food systems more resilient to food safety risks through the deployment of technological solutions**

Other topics of interest:

- *HORIZON-CL6-2025-01-CIRCBIO-05*: **Consumption patterns and environmental awareness as enablers of transition to circular economy**
- *HORIZON-CL6-2025-02-FARM2FORK-04-two-stage*: **Research and innovation for food waste prevention and reduction at household level through measurement, monitoring and new technologies**

Project idea - Concept

- ✓ Aligning feed innovation with **Zero Pollution and Farm-to-Fork strategies** by supporting **cost-efficient, and sustainable animal production systems**.
- ✓ Developing **integrated feed-to-fork interventions** that mitigate **food safety risks** in animal-based value chains.
 - **Functional feed solutions** with natural antimicrobials and bioactives.
 - Safer animal-derived food with **less need for preservatives**.
 - Greater **resilience of food systems** under stress (e.g. climate, supply chain disruptions).
- ✓ **Designing a scalable supply chain model** linking food processors with feed producers, closing the loop in the food chain.

Objectives:

- Identify, collect and characterize high-potential by-products from the food and drink sector
- Develop innovative feed formulations using revalorized side streams enriched with natural antioxidants, enzymes, and nutraceuticals, reducing the need for synthetic inputs and improving animal products quality.
- Nutritional tests on farm animals (poultry, pigs, ruminants), measuring impact on: animal health and productivity, nutrient digestibility, nutritional quality assessment of animal products



Main expertise offered / sought

The National Research and Development Institute for Animal Biology and Nutrition (**IBNA - Balotesti**) is the most important research unit and the only National Institute in the field of animal science in Romania. The institute is equipped with **experimental facilities for monogastric animal and ruminants physiology trials**. In terms of development, the institute features an industrial feed mill that caters to all species and categories of farm animals.

Our expertise involve:

- Valorizing agri-food by-products/co-products/wastes** rich in bioactive compounds to formulate next-generation compound feeds; nutritional quality assessment (hydrosoluble compounds (polyphenols profile), liposoluble compounds (vitamins and carotenoids), fatty acids profile, minerals).
- Designing **nutritionally balanced and environmentally responsible feed recipes** that improve animal health, productivity, and end products quality;
- Feed and Food chemistry:** analytical assessment of macro -and micronutrients (proteins/lipids/PUFA/vitamins/pigments/minerals/polyphenols etc)
- In vivo validation studies** at micro- and macroscale (poultry, pigs, goats) under controlled conditions to demonstrate the efficacy, safety, and sustainability of novel feed products.
- Functional foods (meat, eggs, milk) and feeds** obtained through nutritional approaches, intended for the prevention of certain diseases.
- transdisciplinary studies (technological transfer)**, integrating stakeholder input across the value chain - communication, dissemination and exploitation. Our team collaborates with livestock producers, feed manufacturers, and agri-food companies, supporting co-creation of market-ready innovations and knowledge transfer into practice.

Ongoing and passed EU projects

6 projects in FP6 and FP 7 programme, 1 project LIFE programme, 1 project H2020, 2 projects HORIZON EUROPE, 3 EUREKA projects and other COST, BILATERAL, ERASMUS etc

<https://ibna.ro/en/portofoliu-proiecte>

Role in project: partner or work package leader

Contact details

- Name: **Untea Arabela Elena**, arabela.untea@ibna.ro

General Manager: PhD. Eng. Cătălin DRAGOMIR, catalin.dragomir@ibna.ro

- Organisation: **National Research and Development Institute for Biology and Animal Nutrition**,
- **Romania**, R&D Institution; www.ibna.ro





Thank you
for your attention