Agri-food Romanian research team is offering its research services and the capabilities to create new products and technologies under commercial agreement with technical assistance or research and development cooperation agreements.

Summary

Profile type	Company's country	POD reference
Technology offer	**Romania**	**TORO20241009013**
Profile status	**Type of partnership**	**Targeted countries**
PUBLISHED	**Commercial agreement with technical assistance** **Research and development cooperation agreement**	**• World**
Contact Person	**Term of validity**	**Last update**
Cristina-Maria BALGARADEAN	**22 Nov 2024** **22 Nov 2025**	**22 Nov 2024**

General Information

Short summary

Transylvanian research institute represented by the team offers its research services (development of innovative analytical methods for assessing the safety and security of agricultural and food production & implementation of advanced solutions in food technology) under commercial agreement with technical assistance and also is looking for project partners under research and development cooperation agreement within a consortium (Horizon Europe Cluster 6) .

Full description

Located in Transylvania, the Romanian research institute is active in the fundamental and applied research and has decades of experience in applied analytical chemistry in three main directions:
- Environment and Health;
- Bioenergy and Biomass;
- Analytics and Instrumentation.

The Romanian research institute has experienced scientists and researchers, as well as a remarkable endowment, that allow approaching projects from industrial research to stages "prototype realization" and "technology transfer".

The service combines contaminant analysis and nutritional value assessment with the development of innovative technologies for the extraction and use of alternative proteins and plant food supplements. The team use techniques such as mass spectrometry and chromatography to detect contaminants and nutritionally assess foods. They also develop processes for extracting bioactive compounds from plant sources and formulating new dietary supplements and functional foods. The service integrates advanced technologies for the development of sustainable and nutritious food products, offering customized solutions for the extraction of alternative proteins and plant extracts. It is relevant to the food industry, functional food manufacturers and research organizations interested in healthy and sustainable food innovation.

Laboratories and equipment involved in Agri-food
The laboratories involved in this service include the Laboratory for the detection of traces of GMOs and food safety, for the elaboration and development of innovative processes for the determination of genetically modified organisms (GMOs), the quality of food and functional foods, and the Laboratory for the control of chemical residues food, for the elaboration and development of innovative processes for the determination of the chemical substance. compounds naturally present in food, pollutants (PAHs, pesticides) and additives (preservatives, synthetic colors and sweeteners). Key equipment used includes high performance liquid chromatography (HPLC) coupled to mass spectrometry, atomic absorption spectrometers for heavy metal analysis and supercritical fluid extraction systems for plant extracts.

Willing to further develop technical and analytical solutions to ensure food security in the face of challenges such as climate change, global trade and economic crises, the Romanian research institute would like to conclude commercial agreement with technical assistance with partners that need research services or research and development cooperation agreement within a consortium (Horizon Europe - Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment).

Advantages and innovations

Applicable standard methods and procedures
The methods used in this service include standardized analytical techniques according to international regulations, such as ISO methods for the determination of contaminants and nutritional analysis. Procedures include liquid and gas chromatography, mass spectrometry, and methods to improve the stability and bioavailability of nutritional compounds. These methods ensure an accurate and detailed assessment of food composition and safety.

Representative parameters and accuracy
The main features of this service include the accurate determination of contaminant levels such as heavy metals, mycotoxins and pesticide residues with an accuracy that complies with international standards. The service also provides detailed assessments of nutritional profiles, including vitamins, minerals and bioactive compounds. The accuracy and reliability of the results are ensured by the use of state-of-the-art equipment and validated procedures in our laboratories, including those in the laboratories.

Technical specification or expertise sought

Stage of development

Concept stage

Sustainable Development goals

- **Goal 9: Industry, Innovation and Infrastructure**

IPR Status

No IPR applied

IPR Notes

Partner Sought

Expected role of the partner

Under the commercial agreement with technical assistance the Romanian research institute is looking for foreign partners that require:
• Detailed analysis reports;
• Bioavailability and stability results;
• Complementary analyses;
• Technical recommendations for optimization;
• Technical documentation: new technologies and recipes.

Under research and development cooperation agreement the Romanian research institute is looking for foreign partners within a consortium (Horizon Europe: Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment).

The Romanian research institute will support its foreign partners with the provision of all required documents.

Type of partnership

Commercial agreement with technical assistance

Research and development cooperation agreement

Type and size of the partner

- **R&D Institution**
- **SME 50 - 249**
- **University**
- **Big company**
- **SME <=10**
- **SME 11-49**

Dissemination

Technology keywords

- **08001005 - Food Technology**
- **08003 - Micro- and Nanotechnology related to agrofood**
- **08001002 - Food Additives/Ingredients/Functional Food**
- **08001004 - Food Processing**

Market keywords

- **09003007 - Other services (not elsewhere classified)**

Targeted countries

- **World**

Sector groups involved

- **Health**
- **Agri-Food**