

“AGRICULTURE AND FOOD - CURRENT AND FUTURE CHALLENGES”

A horizontal banner with a blue background. On the left, there is a close-up photograph of green olive leaves. In the center, the word "AGRIFA" is written in a large, white, serif font. To the right of the text, there is a cluster of six hexagonal icons: a wheat stalk, a leaf, a microscope, a fork and knife, a group of people, and a globe. Below these icons, there are white wavy lines and a larger globe on the right side.

AGRIFA

October 16th, 2026

Friday, October 16

9:00 – 9:15	Welcome note Cecilia ROMAN (INOE ICIA, Romania)
Sustainable Agriculture, Environmental Quality and Circular Bioeconomy	
9:15 – 9:30	Morphological and chemical evaluation of urban airborne particles in major Romanian cities using SEM-EDX and multi-source data correlation Dorina Simedru, Erika Levei
9:30 – 9:45	Microalgae as a Sustainable Soil Amendment: A Global Meta-analysis of Soil Physicochemical Responses and Their Driving Factors Bowen Sun, Fanzhu Qu, Shiwei Zhou
9:45 – 10:00	The Role of Pollinating Insects in the Sustainable Production of Cucurbita maxima: Towards Biodiversity-Based Regenerative Agriculture in the Sudano-Sahelian Zone of Cameroon Hebri Sanda
10:00 – 10:15	Optimization of algal cultivation, wastewater treatment, and recovery of value-added compounds within a circular economy framework Emilia Neag, Zamfira Stupar, Maria-Alexandra Resz, Anamaria-Iulia Török, Eniko Kovacs, Oana Cadar, Lacrimioara Senila, Cecilia Roman
10:15 – 10:30	Probabilistic analysis of pathogen exposure scenarios through spring water consumption in anthropized mountain catchments. Zamfira Stupar, Erika Levei, Oana Teodora Moldovan
Advanced Analytical and Materials Technologies for Agro-Industrial Applications	
10:30 – 10:45	Space-Confined Solvent Vapor Annealing for Controlled Structural and Morphological Evolution of Polymer Thin Films. Otto Todor-Boer, Ioan Botiz
10:45 – 11:00	The Role of Raman Spectroscopy in Quality Control of Agroindustrial Production Valerian Ciobota, Paul Vargas Jentzsch
11:00 – 11:30	Conclusions & Discussions Cecilia ROMAN (INOE ICIA, Romania)

Authors	Title of e-poster
1. Sustainable Agriculture, Crop Management and Environmental Protection	
Behnaz Shahrokh, Marjan Aminian	Eliminating Cationic Interferences in Chloride Determination via the Mohr Method Using EDTA in Industrial Wastewater Samples
Ali Asnaashari, Marjan Aminian	Unraveling the Role of EDTA in Enhancing the Heavy Metal Accumulation Capacity of Maize (<i>Zea mays</i>)
Lucian Dordai, Anca Becze, Marius Roman	Deficit Irrigation and Split Nitrogen Fertilization under Conservation Tillage: Effects on Winter Rapeseed Yield and Biodiesel Quality
Florin-Leontin Criste, Larisa-Maria Todoruț, Raluca-Alexandra Matei, Claudia-Terezia Socol	Crop-Matching: An Overview of the Project
Dalma Kovacs, Melinda Kovacs	Land-use effects on soil microbiota diversity and composition in the continental biogeographic region
Melinda Kovacs, Dalma Kovacs	Mixtures of agrochemicals reshape soil microbial phenotypic structure more than individual applications
2. Food Innovation, Alternative Resources and Agri-Food Sustainability	
Marius Roman, Lucian Dordai, Anca Becze, Vanda Băbălău-Fuss	Conventional and Alternative Proteins: Balancing Nutritional Value and Sustainability
Socaciu Bianca, Băbălău-Fuss Vanda, Lakatos Timea	Evaluation of the accelerated stability and quality of grape and tomato pomace during storage
Ancuța-Maria Ivan, Cristina-Maria Bălgărădean, Mădălina-Alexandra Coțiu	From Innovation to Market: Connecting R&D and IP Tools for Agri-Food SMEs through the Enterprise Europe Network
Szöke Kalman, Péter Katica, Nagy Álmos, Gabriel Katona	Electrochemical Copper Recovery from Electronic Waste
Băbălău-Fuss Vanda, Anca Becze, Marius Roman, Bianca Socaciu	<i>Prunus spinosa</i> Fruit Extracts as Non-Toxic Natural Preservatives: Inhibition of H ₂ S and NH ₃ Formation in Food Systems
Imola Noemi Nagy, Anca Corina Fărcaș, Floricuța Ranga, Vanda Babalau-fuss, Maria Tofana, Sonia-ancuța Socaci	Chemical composition and characterization of bioactive properties of elderberry (<i>Sambucus nigra</i> L.)
3. Emerging Technologies, Digitalization and Circular Bioeconomy	
Saimul Bashir, Adil Bashir	ALM-Dual Backbone-Gated Fusion: A Deep Learning Framework for Apple Leaf Miner Lifecycle Classification
Cadar Sergiu	Techno-Economic Assessment of an Integrated VRV Heat Pump, Gas Condensing Heating and 72 kWp Photovoltaic System: A Case Study
Elisabete Freitas, Estefânia Gonçalves Gonçalves Silva, Rui Fernandes, Pedro Abino, Khadija Sabiri	FERTIOlIVE – Low-Cost Smart Fertilization System for Traditional Olive Groves
Mary Sanyaolu	Farm Size and the Economic Feasibility of Precision Agriculture Technologies
Mariana Moreiras, Luís Afonso, Estefânia Gonçalves, Khadija Sabiri	Exploring Orphan Legumes in Virtual Reality: An Interactive 3D Atlas for Agricultural Knowledge Dissemination