

UNIVERSITY OF AGRONOMIC SCIENCES
AND VETERINARY MEDICINE OF BUCHAREST

International Conference
“Agriculture for Life, Life for Agriculture”

CONFERENCE PROGRAMME

JUNE 4 – 6, 2026

BUCHAREST



Section 6

BIOTECHNOLOGY

SCIENTIFIC BOARD – SECTION 6: BIOTECHNOLOGY

- Veronika ABRAM - Biotechnical Faculty, University of Ljubljana, Slovenia
- Narcisa BĂBEANU - Faculty of Biotechnologies, USAMV of Bucharest, Romania
- Gabriela BAHIRM - Faculty of Food Science and Engineering, “Dunărea de Jos” University of Galați, Romania
- Gustavo V. BARBOSA-CANOVAS - Washington State University Pullman, State of Washington, USA
- Ingrid BAUMAN - Faculty of Food Technology and Biotechnology, Zagreb, Croatia
- Nastasia BELC - National Research & Development Institute for Food Bioresources - IBA Bucharest, Romania
- Daniela BORDA - Faculty of Food Science and Engineering, “Dunărea de Jos” University of Galați, Romania
- Monica BOSCAIU - Mediterranean Agroforestry Institute (IAM, UPV), Universitat Politècnica de València, Spain
- Dorica BOTĂU - Faculty of Agriculture, USV from Timișoara, Romania
- Nicolae CORCIONIVOSCHI - Agri-Food and Biosciences Institute, Belfast, UK
- Călina Petruța CORNEA - Faculty of Biotechnologies, USAMV of Bucharest, Romania
- Delia DIMITRIU - Manchester Metropolitan University, United Kingdom
- Carla EMILIANI - Università degli Studi di Perugia, Italy
- Helmut GLATTES - ISEKI Food Association, Austria
- Gustavo Fidel GUTIERREZ-LOPEZ - ENCB-IPN, National School of Biological Sciences, National Polytechnic Institute, Mexico
- Florentina ISRAEL-ROMING - Faculty of Biotechnologies, USAMV of Bucharest, Romania
- Huub LELIEVELD - GHI Association Netherlands, Netherlands
- Leonardo LEONARDI - Università degli Studi di Perugia, Italy
- Florentina MATEI - Faculty of Biotechnologies, USAMV of Bucharest, Romania
- Amalia Carmen MITELUȚ - Faculty of Biotechnologies, USAMV of Bucharest, Romania
- Paola PITTIA - Dipartimento di Scienze, degli Alimenti University degli Studi di Teramo, Italy
- Mona Elena POPA - Faculty of Biotechnologies, USAMV of Bucharest, Romania
- Sandrine ROUSSEAU - University of Burgundy, Dijon, France
- Mark SHAMTSYAN - St. Petersburg State Institute of Technology, Russia
- Cristina SILVA - ISEKI Food, Catholic University of Portugal
- Ileana STOICA - University of Bucharest, Romania
- Gabriela TENEA - Universidad Técnica del Norte, Ibarra, Ecuador
- Margarida VIEIRA - Directora do Dep. De Engenharia Alimentar, Instituto Superior de Engenharia, Universidade do Algarve, Portugal
- Tatiana VASSU - University of Bucharest, Romania
- Oscar VICENTE - Universitat Politècnica de València, Spain
- Medana ZAMFIR - Institute of Biology, Romanian Academy
- Chin-Kun WANG - Chung Shan Medical University, Taiwan

ORGANIZING COMMITTEE – SECTION 6: BIOTECHNOLOGY

Section president: Professor PhD. Narcisa Elena BĂBEANU

Section coordinator: Associate Professor PhD. Elisabeta Elena POPA and
Lecturer PhD. Paul Alexandru POPESCU

Members:

- Associate Professor PhD. Oana-Alina BOIU-SICUIA
- Associate Professor PhD. Radu Cristian TOMA
- Lecturer PhD. Diana GROPOȘILĂ-CONSTANTINESCU
- Lecturer PhD. Mihaela GEICU-CRISTEA
- Lecturer PhD. Aglaia POPA
- Assistant Professor Ion NIȚU
- Assistant Professor Sara ROMAN
- Assistant Professor Rely TUDOR

**University of Agronomic Sciences and Veterinary Medicine of Bucharest
Faculty of Biotechnologies**

E-mail: biotechnologiesjournal@usamv.ro

Web: <https://biotechnologyjournal.usamv.ro>

DETAILED PROGRAMME

SECTION 6: BIOTECHNOLOGY

Thursday, 4th June, 2026

08:00 – 09:00	Registration of participants
09:00 – 09:30	OPENING & WELCOME
09:30 – 10:15	Special Guest of Faculty of Biotechnologies
10:15 – 11:00	Photo session/Coffee Break
11:00 – 13:00	PLENARY SESSION
13:00 – 14:00	Lunch & Networking Activities
14.00	Workshop “Food Safety in Action: Allergen Awareness and Practical Demonstration” <i>Amf P, ground floor, Faculty of Biotechnologies</i>
14:00 – 16:00	Poster display
19:00 – 21:30	Official Gala Dinner, Ceres Restaurant, USAMV Campus

Friday, 5th June, 2026
SESSION I
ORAL PRESENTATIONS

Chairperson: Prof. PhD. Amalia Carmen MITELUȚ
Moderator: Associate Professor PhD. Oana-Alina BOIU-SICUIA

Faculty of Biotechnologies, Aula Magna "Prof. dr. Gheorghe Câmpeanu" - First Floor

08:00 – 08:50	<i>Arrival and Registration of Participants</i>	<i>Faculty of Biotechnologies, Aula Magna "Prof. dr. Gheorghe Câmpeanu" - First Floor</i>
08:50 – 09:00	<i>Conference Section Opening</i>	

Time	Authors	Paper Title
09:00 – 09:20	Gabriela Nicoleta TENEA	Impact of post-harvest handling and processing on the microbial and physicochemical quality of chocho (<i>Lupinus mutabilis</i>) in Ecuador
09:20 – 09:40	Oscar VICENTE, Monica BOSCAIU	"New" crops to adapt mediterranean agriculture to the current climate emergency
09:40 – 10:00	Rita GOLBAN	Immunological aspects regarding the evaluation of cellular indices in cattle
10:00 – 10:20	Dana COPOLOVICI, Cristian MOISA, Andreea LUPITU, Flavia BORTES, Lucian COPOLOVICI	Utilization of snail-based products in circular bioeconomy
10:20 – 10:40	Carmen BĂLȚATU, Sorin Ștefan BIRIȘ, Ana-Maria TĂBĂRAȘU, Dragos Nicolae DUMITRU, Eugen MARIN	Pilot evaluation of mechanical parameters influencing grape seed oil yield in small agricultural presses
10:40 – 11:00	Tamara SÎRBU, Valerina SLANINA, Cristina MOLDOVAN	Contribution to the study of conservation by the method of lyophilization of fungi and bacteria
11:00 – 11:30	<i>Coffee break/Viewing posters and discussions</i>	<i>Faculty of Biotechnologies, First Floor, Main Hall</i>

SESSION II

ORAL PRESENTATIONS

Chairperson: Prof. PhD. Amalia Carmen MITELUȚ
Moderator: Associate Professor PhD. Oana-Alina BOIU-SICUIA

Faculty of Biotechnologies, Aula Magna "Prof. dr. Gheorghe Câmpeanu" - First Floor

Time	Authors	Paper Title
11:30 – 11:50	Eduard-Gabriel CONSTANTIN , Mihaela Violeta GHICA, Cristina-Elena DINU-PÎRVU, Ioana LUCA, Durmuş Alpaslan KAYA, Lăcrămioara POPA, Valentina ANUȚA, Mădălina Georgiana ALBU KAYA, Iuliana Diana BĂRBULESCU, Răzvan Mihai PRISADA	Development and characterization of polyvinyl alcohol based polymeric systems for biomedical and agricultural applications
11:50 – 12:10	Hanna Maria BARANOWSKA , Weronika KWIATKOWSKA, Przemysław SIEJAK, Przemysław Łukasz KOWALCZEWSKI	Effect of dietary fibre of different botanical origin on the molecular dynamics of the lipid fraction and physical properties of chocolate
12:10 – 12:30	Marko PETKOVIĆ , Alexander LUKYANOV, Vasilii DOLGOV, Nemanja MILETIĆ	Modernization of the control system of convective-type cabinet dehydrators and providing laboratory research on food drying
12:30 – 12:50	Nemanja MILETIĆ , Bojana LAZAREVIĆ, Matija MUNJIĆ, Alexander LUKYANOV, Marko PETKOVIĆ, Branko POPOVIĆ	Sensory characteristics and quality parameters of cherry liqueurs produced using different technological methods
12:50 – 13:00	Conclusions and Closing ceremony	
13:00 – 14:00	Lunch	Faculty of Biotechnologies, First Floor, Main Hall
14:00 – 16:00	Workshop "Food Safety, Security and Inclusion in Romania" - Aula Magna, Faculty of Biotechnologies	
16:00 – 16:30	Coffee break	

POSTER SESSION

Time: 09:00 – 13:00

Faculty of Biotechnologies, First Floor, Main Hall

Session Moderators: Prof. PhD. Narcisa Elena BĂBEANU
Associate Professor Cătălina VOAIDEȘ

Paper ID	Authors	Paper Title
I. AGRICULTURAL BIOTECHNOLOGY		
P.I.1.	Paul Alexandru PARDEK, Nicu Cornel SABAU, Cristina Maria MAERESCU, Ioana Maria BORZA, Radu Petru BREJEA	Results obtained from the use of the bacterium <i>Azotobacter chroococcum</i> in maize cultivation
P.I.2.	Ion NIȚU, Elisabeta Elena POPA, Amalia Carmen MITELUȚ	Electron-beam crosslinking of alginate/acrylic acid hydrogels: swelling behavior, release kinetics, and migration effects
P.I.3.	Adina NICHITA, Ioana Loredana STANCIU, Mihaela GEICU-CRISTEA, Mona Elena POPA	Recovery of bioactive compounds from selected industrial plant wastes and by-products-case studies on: tomato processing residues, olive washing waters and sea buckthorn by-products
P.I.4.	Simona-Laura ROTARU, Carmen LUPU, Mălina DESLIU-AVRAM, Florin OANCEA	Mycotoxins deactivator based on spent brewer's yeast cell walls and diatomaceous earth
P.I.5.	Simona-Laura ROTARU, Veronica TUDORICA, Carmen LUPU, Florin OANCEA	Mycotoxin occurrence in feed and feed raw materials in southern Romania in 2024

Paper ID	Authors	Paper Title
----------	---------	-------------

II. FOOD BIOTECHNOLOGY

P.II.1.	Mihaela BRUMĂ (CĂLIN), Ina VASILEAN, Iuliana BANU, Nicoleta STANCIUC, Gabriela RAPEANU, Iuliana APRODU	Investigations on the use of egg protein derivatives and hydrolysates for pudding fortification
P.II.2.	Krzysztof SMARZYŃSKI, Millena RUSZKOWSKA, Hanna Maria BARANOWSKA, Przemysław Łukasz KOWALCZEWSKI	Improving the quality of alternative vegan burger products through the use of enzymatic treatment
P.II.3.	Millena RUSZKOWSKA, Krzysztof SMARZYŃSKI, Martyna WRÓBEL, Hanna Maria BARANOWSKA, Przemysław Łukasz KOWALCZEWSKI	Quality assessment of corn extrudates enriched with spirulina and chlorella as functional snack products
P.II.4.	Maria POPA, Mirel GLEVITZKY, Gabriela-Alina DUMITREL, Dorin-Victor POPA, Doriana Maria POPA, Ana VÎRSTA	Food safety risk analysis based on an improved HACCP methodology: an applied study
P.II.5.	Przemysław Łukasz KOWALCZEWSKI, Małgorzata GUMIENNA, Paweł JEŻOWSKI, Michał ŚWIĄTEK, Barbara GÓRNA-SZWEDA, Iga RYBICKA, Millena RUSZKOWSKA, Maciej Ireneusz KLUZ, Matteo BORDIGA	Potato protein-based vegan burgers as modulators of gut microbiota and intestinal bioactivity after <i>in vitro</i> digestion
P.II.6.	Martyna Maria WRÓBEL, Krzysztof SMARZYŃSKI, Millena RUSZKOWSKA, Hanna Maria BARANOWSKA, Przemysław Łukasz KOWALCZEWSKI	Structuring and stability of plant-based burgers enriched with potato protein and iron: insights from texture, water properties, and low-field NMR
P.II.7.	Oana LIVADARIU, Laura-Maria VALS, Paulina VALS	Highlighting the influence of broccoli microgreens (<i>Brassica oleracea</i> , var. <i>italica</i>) added to cow's telemea cheese on the purchasing preferences of the final consumer
P.II.8.	Oana Camelia IATCU, Monica IAVORSCHI, Ancuța Veronica LUPAESCU, Roxana Elena GHEORGHITA	Bio-based capsules with peptides and <i>Lactobacillus casei</i> as augmentation vectors for biologically active food products

Paper ID	Authors	Paper Title
----------	---------	-------------

III. MEDICAL AND PHARMACEUTICAL BIOTECHNOLOGY

- | | | |
|----------|---|--|
| P.III.1. | Ovidiu-Ştefan IONESCU,
Monica ENACHE | Microscopic analysis of the stem and leaf of <i>Melissa officinalis</i> L. (Lemon balm) |
| P.III.2. | Roxana Mădălina STOICA,
Nicoleta STAMATE-ENE,
Elena Simina LAKATOS,
Elena Cristina RADA,
Diana GROPOŞILĂ-CONSTANTINESCU | Microbial biosurfactants as antimicrobial and therapeutic agents: a mini-review of recent advances |

IV: ENVIRONMENTAL BIOTECHNOLOGY

- | | | |
|---------|---|--|
| P.IV.1. | Gabriela-Lucica MĂRGĂRIT,
Diana GROPOŞILĂ-CONSTANTINESCU,
Silvana-Mihaela DĂNĂILA-GUIDEA,
Diana-Elena VADANA | Biotechnological bioremediation solutions for environments contaminated with pharmaceutical waste – a review |
| P.IV.2. | Gabriela LUŢĂ,
Evelina GHERGHINA,
Daniela BĂLAN,
Hatice TURKTEN | Bioindicators, a key tool in assessing toxic exposure |
| P.IV.3. | Maria-Mihaela ZUGRAVU,
Aglaia POPA,
Yildiray ISTANBULLU | Silicon-based elicitors for sustainable crop protection |

V. MISCELLANEOUS

- | | | |
|--------|--|--|
| P.V.1. | Raissa DUŞCOV | Mechanisms for strengthening the economic security of enterprises in the Republic of Moldova |
| P.V.2. | Nicoleta RADU,
Mihai Dan CARAMIHAI,
Francisca BLANQUEZ CANO,
Adrian SILVA,
Narcisa Elena BĂBEANU | Developing competencies in cutting-edge technologies for green agriculture and industrial applications |

P.V.3.	Nicoleta RADU, Mihai Dan CARAMIHAI, Francisca BLANQUEZ CANO, Adrian SILVA, Narcisa Elena BĂBEANU	Contemporary learning training teaching methodology for exploring the european green deal: linking agriculture, biodiversity, and EU policy
--------	--	---

Paper ID	Authors	Paper Title
P.V.4.	Rafael PORUMBEL, Radu Cristian TOMA, Filofteia Camelia DIGUȚĂ, Alexandru Constantin ALDEA, Sahar DELKHAHL, Gabriela Lucica MĂRGĂRIT, Diana GROPOȘILĂ-CONSTANTINESCU, Narcisa BĂBEANU	AI-enhanced additive manufacturing in biotechnology: bridging the digital gap through 3D scanning and generative design optimization