



Section 6

BIOTECHNOLOGY

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- Lecturer PhD. Diana GROPOȘILĂ-CONSTANTINESCU
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DETAILED PROGRAMME

SECTION 6: BIOTECHNOLOGY

Thursday, 5th June, 2025

08:00 – 09:00	Registration of participants
09:00 – 09:30	OPENING & WELCOME
09:30 – 10:15	Special Guest of the A4LL4A 2025
10:15 – 11:00	Photo session/Coffee Break
11:00 – 13:00	PLENARY SESSION
13:00 – 14:00	Lunch & Networking Activities
14.00	Workshop “Valorization of agri-food by-products – opportunities and challenges in the One Health concept” - <i>Aula Magna “Prof. dr. Gheorghe Câmpeanu” - First Floor, Faculty of Biotechnologies</i>
14.00	Workshop “Main technological solution to achieve EGD objectives”, Associate professor Nicoleta RADU, Professor. Mihai Dan CARAMIHAI - <i>online, Faculty of Biotechnologies</i>
14:00 – 16:00	Poster display
19:00 – 21:30	Official Gala Dinner – Cultural Event (Ceres Restaurant)

Friday, 6th June, 2025

**SESSION I
ORAL PRESENTATIONS**

Chairperson: Prof. PhD. Florentina ISRAEL-ROMING

Moderator: Prof. PhD. Amalia Carmen MITELUȚ

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	Microbial diversity of strawberry fruits: from farm to table for enhanced food safety
09:20 – 09:40	Bogdan BOCĂNEALĂ, Oana Emilia CONSTANTIN, Nicoleta STĂNCIUC, Iuliana APRODU, Gabriela RÂPEANU	Evolution of physico-chemical parameters and phenolic content during the ripening of Fetească neagră var. Grapes in the Terasale Dunării viticultural area
09:40 – 10:00	Adina Floricica IANCU, Mădălina MILITARU, Sina COSMULESCU	Construction of a bacterial artificial chromosome (BAC) library to confirm the Rvi2 gene in some apple varieties released in Romania
10:00 – 10:20	Gaia CUSUMANO	Unveiling the biological properties of mushroom-derived extracellular vesicles
10:20 – 10:40	Eleonora CALZONI	Unlocking the phototoxic potential of aloe-derived extracellular vesicles as natural drug carriers
10:40 – 11:00	Agnese BERTOLDI	Exploring the therapeutic potential of plant-derived extracellular vesicles in epithelial-to-mesenchymal transition: targeting hepatocellular carcinoma <i>in vitro</i> model
11:00 – 11:30	Coffee break/Viewing posters and discussions	Faculty of Biotechnologies, First Floor, Main Hall

SESSION II

ORAL PRESENTATIONS

Chairperson: Prof. PhD. Florentina ISRAEL-ROMING

Moderator: Prof. PhD. Amalia Carmen MITELUȚ

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

Time	Authors	Paper Title
11:30 – 11:50	Dana COPOLOVICI , Cristian MOISA, Andreea LUPITU, Andreea GOSTĂVICEANU, Lucian COPOLOVICI	Exploring the antimicrobial potential of cell-penetrating peptides
11:50 – 12:10	Gurtej SINGH , Akshat KUMAR, Parampreet Singh SIDHU	Role of biotechnological interventions in the management of canine demodex using amitraz therapy
12:10 – 12:30	Behnaz RAHMANIFAR , Oana-Alina BOIU-SICUIA, Oana LIVADARIU, Niculina IONESCU, Călina Petruța CORNEA	Optimization of <i>Agrobacterium rhizogenes</i> - mediated hairy root induction in <i>Salvia officinalis</i>
12:30 – 12:50	Anne NURBAITY , Adellya SAFITRI, Rossita FAUZIAH, Erni SUMINAR, Noor ISTIFADAH (<i>online</i>)	The effect of arbuscular mycorrhizal fungi and mycorrhizal helper bacteria doses on <i>in vitro</i> potato plantlet propagation
12:50 – 13:10	Umesh MADAR , Rajendra PUJAR, Devarajan THANGADURAI, Jeyabalan SANGEETHA, Pavitra CHIPPALAKATTI, Smita SHINDE (<i>online</i>)	Population genetic studies on <i>Calamus nagebittai</i> R.R. Fernald & Dey. in Western ghats region of Karnataka
13:10 – 13:20	Conclusions and Closing ceremony	
13:20 – 14:20	Lunch	Faculty of Biotechnologies, First Floor, Main Hall
14:20 – 16:00	Workshop "Global Initiatives on Shaping the Future of Food Safety" - Aula Magna, Faculty of Biotechnologies	
10:00 – 18:00	Workshop "Main technological solution to achieve EGD objectives" Associate professor Nicoleta RADU, Professor. Mihai Dan CARAMIHAI - Amf II, 2nd floor, Faculty of Biotechnologies	
16:00 – 16:30	Coffee break	

POSTER SESSION

Time: 09:00 – 13:10

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.	Vladimir ROTARU, Vladimir TODIRAȘ	Ecological control of powdery mildew of cucumber by potassium phosphate and neem oil and their effects on contents of chlorophylls in leaves
P.I.2.	Mirela DRĂGAN, Andrei PETRE, Silvana Mihaela DĂNĂILĂ-GUIDEA, Ștefana JURCOANE	Sustainable agricultural solutions applied to buckwheat cover crop in 2024
P.I.3.	Yuliia KOLOMIETS, Artur LIKHANOV, Valeria BONDAR	Amino acids as regulators of morphogenesis and resveratrol synthesis in grape regenerating plants <i>in vitro</i>
P.I.4.	Oana-Alina BOIU-SICUIA, Daniel-Nicolae COJANU, George COTEȚ, Alina-Nicoleta PARASCHIV	Comparative <i>in vitro</i> and <i>in vivo</i> effects of some microbial inoculants for the organic sweet potato
P.I.5.	Ivona Maria ZĂBAVĂ, Tudor Andrei KACENCO, Mădălina DEGENARO, Nicolae DOJANĂ	Response of the reproductive system morphology to changes in the pituitary-ovarian axis control in differently selected hen strains during egg-laying cycle
P.I.6.	Adina NICHITA, Luigi DAIDONE, Ilenia DOTTORI, Gianluca VENEZIANI, Gabriela BUTNARIU, Mona Elena POPA	Quality characteristics of olive oil and by-products from oil mechanical extraction process
P.I.7.	Evelina GHERGHINA, Gabriela LUTA, Daniela BALAN	Importance of zinc compounds and zinc nanoparticles in development of plants

Paper ID	Authors	Paper Title
P.I.8.	Sabina-Andreea BOBEA, Livia APOSTOL, Cristian FLOREA, Filofteia Camelia DIGUȚĂ, Alexandru Constantin ALDEA, Mihai-Bogdan NICOLCIOIU, Claudia ZOANI, Călina Petruța CORNEA	Preliminary study regarding the reintroduction of ancestral wheat in the bakery industry
P.I.9.	Zina PARASCHIV, Nicoleta RADU, Jessica Maiara SODER WALZ, Adrian SILVA, Narcisa Elena BĂBEANU	Knowledge, skills, and attitude of three of European universities in connection with advanced agricultural technologies under the context of climate change
P.I.10.	Maria DUCA, Ina BIVOL	Assessing the phylogeny and genetic variability of <i>Orobanche cumana</i> wallr. populations using ISSR markers

II. FOOD BIOTECHNOLOGY

P.II.1.	Ecaterina-Teodora CHIREA, Emanuela-Catalina IONETIC, Iulia-Roxana ANGELESCU, Silvia-Simona GROSU-TUDOR, Cristina PURCAREA, Medana ZAMFIR	Exploring the bacteriocinogenic properties of <i>Lactococcus lactis</i> R152 isolated from a traditionally made cheese
P.II.2.	Mihaela GEICU-CRISTEA, Elisabeta Elena POPA, Paul Alexandru POPESCU, Mihaela Cristina DRĂGHICI, Ion NIȚU, Adriana Georgiana STERIAN, Amalia Carmen MITELUȚ, Mona Elena POPA	Exploring the role of nutrition in enhancing mental and emotional well-being
P.II.3.	Hanna Maria BARANOWSKA, Krzysztof SMARZYNSKI, Jacek LEWANDOWICZ, Paweł JEŻOWSKI, Millena RUSZKOWSKA, Martyna Maria WRÓBEL, Piotr KUBIAK, Mirosława KAĆÁNIOVÁ, Przemysław Łukasz KOWALCZEWSKI	The rheology, texture, and molecular dynamics of plant-based hot dogs

Paper ID	Authors	Paper Title
P.II.4.	Przemyslaw Lukasz KOWALCZEWSKI, Martyna Maria WRÓBEL, Krzysztof SMARZYŃSKI, Joanna ZEMBRZUSKA, Mariusz ŚLACHCIŃSKI, Paweł JEŻOWSKI, Aneta TOMCZAK, Bartosz KULCZYŃSKI, Magdalena ZIELIŃSKA-DAWIDZIAK, Karina SAŁEK, Dominik KMIECIK	Potato protein-based vegan burgers enriched with different sources of iron and fiber: nutrition, sensory characteristics, and antioxidants before and after <i>in vitro</i> digestion
P.II.5.	Elena-Claudia STOICAN (GRADEA), Ionuț MORARU, Angela MORARU, Mircea-Cosmin PRISTAVU, Florentina ISRAEL-ROMING	Characterization of functional gluten-free breadsticks with cumin improved by addition of cruciferous extracts
P.II.6.	Alexandra-Ioana IONESCU, Constantin BUTOI, Viorel SCHIOPU, Georgeta POPESCU	Variation of flavoprotein concentration after sweetening in a green-tea based food supplement
P.II.7.	Constantin BUTOI, Alexandra Ioana IONESCU, Viorel SCHIOPU, Georgeta POPESCU	Influence of natural and synthetic sweeteners on flavoproteins found in black tea
P.II.8.	Ervin COZMA, David QUINTÍN MARTÍNEZ, Presentación GARCÍA GÓMEZ, Jose FERNANDEZ CALATAYUD, Florentina ISRAEL-ROMING	Research on the valorisation of plant-based by-products to produce food linked to the circular economy concept
P.II.9.	Monica ȚUȚUIANU, Lavinia-Mariana BERCA, Dănuț CIMPONERIU, Florentina ISRAEL-ROMING	Global trends and research evolution in flour and bakery product fortification: a bibliometric analysis
P.II.10.	Elisabeta Elena POPA, Mihaela GEICU-CRISTEA, Amalia MITELUT, Mihaela DRAGHICI, Paul Alexandru POPESCU, Ion NITU, Roxana ALECU, Mona Elena POPA	Recent insights in vacuum impregnation application on minimal processed fruits and vegetables

Paper ID	Authors	Paper Title
P.II.11.	Amalia Carmen MITELUT, Georgiana APOSTOL, Elisabeta Elena POPA, Mihaela GEICU-CRISTEA, Mihaela DRAGHICI, Paul Alexandru POPESCU, Mona Elena POPA	The latest development of radio-frequency applications in the food industry: advantages and drawbacks
P.II.12.	Mioara NEGOIȚĂ, Adriana Laura MIHAI, Alina Cristina ADASCĂLULUI, Laurențiu Mihai PALADE	Development, optimization, and validation of a QuEChERS method for determining the polycyclic aromatic hydrocarbons in cereals, oil, and their derivatives by GC-MS/MS
P.II.13.	Oana LIVADARIU, Alexandra ADAM	Highlighting the influence of broccoli microplants (<i>Brassica oleracea</i> var. <i>italica</i>) addition to vegan yoghurt on the final consumer purchasing preferences
P.II.14.	Denisa Eglantina DUȚĂ, Gabriela Daniela CRIVEANU-STAMATIE, Cristian FLOREA, Mihaela ANGHEL (MULȚESCU), Adriana Laura MIHAI, Claudia ZOANI, Nastasia BELC, Michael RYCHLIK	A Cross-country consumers' study on the acceptance of grissini enriched with whey
P.II.15.	Alexandru SOARE, Florentina ISRAEL-ROMING	Research on the valorization of by-products and/or wastes from <i>Brassica oleracea</i> – a review
P.II.16.	Mihaela MULȚESCU, Iulia-Elena SUSMAN	Determination of bioactive compounds and antioxidant activity in selected <i>Cucurbitaceae</i> fruits
P.II.17.	Mircea Cosmin PRISTAVU, Filofteia Camelia DIGUȚĂ, Florentina BADEA, Alexandru Constantin ALDEA, Anna COPALONI, Florentina MATEI	<i>Pediococcus acidilactici</i> MI129-derived postbiotic formulations: <i>in vitro</i> insights into applications for health improvement

III. MEDICAL AND PHARMACEUTICAL BIOTECHNOLOGY

Paper ID	Authors	Paper Title
P.III.1.	Teodora-Otilia ALEXIU, Laura-Dorina DINU	Valorization of the viticulture waste in the nutraceutical industry
P.III.2.	Fawzia SHA'AT, Anton-Liviu PETRICA, Ramona-Daniela PAVALOIU	Nanosystems as vesicles for delivery of senotherapeutics from natural sources - advantages, limitations, scalability, and economic aspects
P.III.3.	Fawzia SHA'AT, Ramona-Daniela PAVALOIU, Ciprian FODOR, Emilian ROMAN, Mariana FODOR	Liposomes in regenerative cosmetics: revolutionizing skin care through advanced nanotechnology
P.III.4.	Diana GROPOȘILĂ- CONSTANTINESCU, Ioan-Nicolae RANGA, Radu-Cristian TOMA, Gabriela-Lucica MĂRGĂRIT	Antirheumatic cream based on natural ingredients
P.III.5.	Elena BIRZA, Nicoleta RUSU, Cătălina VOAIDEȘ, Narcisa BABEANU	The antioxidant potential of some <i>Mespilus germanica</i> L. extracts
P.III.6.	Daniela ALBISORU, Nicoleta RADU, Oksana MULESA, Marinela BOSTAN, Viviana ROMAN	Studies regarding <i>in vitro</i> cytotoxicity of the yellow polyketides obtained through biosynthesis

V. MISCELLANEOUS

P.V.1.	Elena BÎRZĂ, Cătălina VOAIDEȘ, Narcisa BĂBEANU	Investigation the impact of <i>Mespilus germanica</i> L. leaves lyophilization on the quality of extractable DNA
P.V.2.	Magdalina URSU, Nicoleta RADU, Silvana Mihaela DĂNĂILĂ-GUIDEA, Narcisa Elena BĂBEANU	Preliminary studies regarding the antimicrobial properties of some bioproducts derived from <i>Zingiber officinale</i> and <i>Curcuma longa</i>
P.V.3.	Marian TOADER, Nicoleta RADU, Narcisa Elena BĂBEANU, Radu-Cristian TOMA, Viviana ROMAN	Evaluation of the cytotoxicity of some biomaterials derived from algal polysaccharides using math models

