



## Section 6

# **BIOTECHNOLOGY**

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Section president: Professor PhD. Călina Petruța CORNEA

Section coordinator: Professor PhD. Florentina MATEI

Members:

- Professor PhD. Florentina ISRAEL-ROMING
- Lecturer PhD. Elisabeta Elena POPA
- Lecturer PhD. Radu Cristian TOMA
- Lecturer PhD. Gabriela MĂRGĂRIT
- Lecturer PhD. Diana GROPOȘILĂ-CONSTANTINESCU
- Lecturer PhD. Oana LIVADARIU
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Faculty of Biotechnology**

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## DETAILED PROGRAMME

### SECTION 6: BIOTECHNOLOGY

**Thursday, 8<sup>th</sup> June, 2023**

08:00 – 09:00	Registration of participants
09:00 – 09:30	OPENING & WELCOME
09:30 – 11:00	PLENARY SESSION I
11:00 – 11:30	Coffee Break
11:30 – 13:00	PLENARY SESSION II
13:00 – 14:00	Lunch & Networking Activities
14:30 – 17:00	Workshop – “Current trends regarding food safety and food security in Romania”- <i>Aula Magna, Faculty of Biotechnologies</i>
17:00 – 17:30	Coffee Break
14:00 – 17:00	Poster display
19:00 – 21:30	Official Gala Dinner – Cultural event

**Friday, 9<sup>th</sup> June, 2023**

### SESSION I ORAL PRESENTATIONS

***Chairman: Prof. PhD. Călina Petruța CORNEA***

***Moderator: Prof. PhD. Florentina MATEI***

*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 – 09:30	Oscar VICENTE, Mohamad AL HASSAN, Monica BOSCAIU, Sara GONZÁLEZ-ORENGA	Control of K <sup>+</sup> homeostasis: an essential stress tolerance mechanism in plants
09:30 – 10:00	Huub LELIEVELD	How GHI may be successful in improving food security and safety
10:00 – 10:15	Ricardo MIR, Antonio CALABUIG-SERNA, Jose María SEGUÍ-SIMARRO	Plant somatic embryogenesis - a focus on the role of calcium in embryo induction and development
10:15 – 10:30	Mario X. RUIZ-GONZÁLEZ, Oscar VICENTE	Agrobiodiversity: conservation, threats, challenges, and strategies for the 21 <sup>st</sup> century
10:30 – 10:45	Sulita KLAKANKHAI, Apinya KHAIRUM, Piyada Alisha TANTASAWAT	Induction of tomato polyphenol oxidases in response to common cutworm ( <i>Spodoptera litura</i> ) and Jack Beardsley mealybug ( <i>Pseudococcus jackbeardsleyi</i> ) infestations
10:45 – 11:00	Przemysław Łukasz KOWALCZEWSKI, Anna OLEJNIK, Martyna Natalia WIECZOREK, Joanna ZEMBRZUSKA, Katarzyna KOWALSKA, Jacek LEWANDOWICZ, Grażyna LEWANDOWICZ	Potato juice and products of its processing: synergy in <i>in vitro</i> cytotoxicity against cancer cells of digestive system
11:00 – 11:30	Coffee break / Viewing posters and discussions	Faculty of Biotechnologies, First Floor, Main Hall

## SESSION II

### ORAL PRESENTATIONS

**Chairman: Prof. PhD. Florentina ISRAEL-ROMING**  
**Moderator: Assoc. Prof. PhD. Amalia Carmen MITELUȚ**

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

Time	Authors	Paper Title
11:30 – 11:45	<b>Gabriela CHENDREAN,</b> <b>Antonia MOCANU</b>	Production of 2 <sup>nd</sup> generation bioethanol through Sunliquid® technology
11:45 – 12:00	<b>Gabriela NICOLETA TENEA,</b> Pamela REYES, Molina DIANA	Multidrug-resistant bacteria linked to Ecuadorian cheap markets fresh strawberries and gooseberries
12:00 – 12:15	<b>Dana COPOLOVICI,</b> Dana Gina RADU, Cristian MOISA, Andreea Ioana LUPITU, Lucian COPOLOVICI	New antimicrobial peptides with potential applications in biotechnology
12:15 – 12:30	<b>Eleonora CALZONI,</b> Nicolò MONTEGIOVE, Alessio CESARETTI, Carla EMILIANI, Leonardo LEONARDI, Roberto Maria PELLEGRINO	Production of protein hydrolysates from sustainable biomasses using polylactic acid continuous flow bioreactors with immobilized enzymes
12:30 – 12:45	<b>Laurentiu Mihai PALADE,</b> Adriana Laura MIHAI, Alina Cristina ADASCĂLULUI, Gabriela-Andreea HORNEȚ, Mioara NEGOIȚĂ	Trends in QuEChERS-based sample pretreatment methods for polycyclic aromatic hydrocarbons analysis in food
12:45 – 13:00	<b>Anna MOLDOVAN,</b> Natalia MUNTEANU- MOLOTIEVSKIY, Ion TODERAS	New data on insecticidal activity of some native bacterial and fungal strains
13:00 – 13:15	Tamara SÎRBU, Svetlana BURȚEVA, <b>Maxim BÎRSA,</b> Nina BOGDAN-GOLUBI, Valerina SLANINA, Cristina MOLDOVAN, Olga ȚURCAN	Antimicrobial activity of microorganisms isolated from silt of the "LA IZVOR" lake system (Chisinau Municipality)

<b>Time</b>	<b>Authors</b>	<b>Paper Title</b>
13:15 – 13:25	<b>Wahauwouele Hermann COULIBALY</b>	Identification of non- <i>Saccharomyces</i> yeast strains isolated local traditional sorghum beer produced in Abidjan district (Côte d'Ivoire) and their ability to conduct alcoholic fermentation
13:25 – 13:35	Wahauwouele Hermann COULIBALY, <b>Yabo Majoie Geroxie TOHOYESSOU</b> , Carmelle MIZEHOUN-ADISSODA, Zana Daniel COULIBALY, Michael Akenteng WIAFE, Fatoumata CAMARA	Consumption of cashew kernel-based food products and its nutritional potentialities
13:35 – 13:45	<b>Conclusions and Closing ceremony</b>	
13:45 – 14:30	<b>Lunch</b>	<b>Faculty of Biotechnologies, First Floor, Main Hall</b>
14:30 – 17:00	<b>Workshop – “Realities, challenges and perspectives in the implementation of the "Hygienic Design" concept in Romania”- Amphitheater II, 2<sup>nd</sup> floor</b>	
17:00 – 17:30	<b>Coffee break</b>	

## POSTER SESSION

Time: 09:00 – 13:35

Faculty of Biotechnologies, First Floor, Main Hall

**Session Moderators:** Prof. PhD. Narcisa BĂBEANU  
Assoc. Prof. PhD. Cătălina VOAIDEȘ

Paper ID	Authors	Paper Title
<b>I. AGRICULTURAL BIOTECHNOLOGY</b>		
P.I.1.	Cristian-Alexandru TOADER, Floarea BURNICHI, Mona Elena POPA	The effect of <i>Trichoderma</i> and diatomite on the growth and development parameters of some bell pepper species
P.I.2.	Elena MIHAI, Alexandra GASPAR-PINTILIESCU, Teodora CIUCAN, Ana-Maria PRELIPCEAN, Justinian TOMESCU, Miruna NEAGU, Oana CRACIUNESCU	Comparative study on the composition, antioxidant and antimicrobial activity of fennel hydrolates
P.I.3.	Maria DUCA, Ina BIVOL	Genetic relationships among different broomrape races from the Black Sea basin
P.I.4.	Madar UMESH, Devarajan THANGADURAL, Jeyabalan SANGEETHA, Pujar RAJENDRA, Chippalakatti PAVITRA, Iliger RANGAYYA	Population genetics studies on <i>Calamus nagbettai</i> r.r. Fernald & Dey. in western ghats regions of Karnataka in Southern India
P.I.5.	Ilir LLOHA, Enkeleda BERBERI, Ervin SHISHMANI	Analysis of nutritional constituents in different fruit tissues in four citrus species from South Albania region
P.I.6.	Oleg CHISELIȚA, Alina BEȘLIU, Natalia CHISELIȚA, Nadejda EFREMOVA, Elena TOFAN	Amino acid composition and antioxidant activity of biologically active preparations obtained from wine yeast sediments
P.I.7.	Behnaz RAHMANIFAR, Oana LIVADARIU, Calina Petruța CORNEA	Review on secondary metabolites in <i>Salvia</i> spp.



Paper ID	Authors	Paper Title
P.I.8.	Ketwalee SIWAPITHAKPONG, Sukanya INTHAISONG, Witsarut CHUEAKHUNTHOD, Piyangkoon JAUKWON, Piyada Alisha TANTASAWAT	Screening of SSR and EST-SSR markers for background selection in mungbean
P.I.9.	Tatiana DAVID, Leonid POPOV, Leonid VOLOSCIUC, Maria GAMURAR, Cristina MUNTEANU	The influence of growth-stimulating <i>Rhysobacteria</i> (PGPB) on the physiological processes and productivity potential of grapevines
P.I.10.	Ionut Georgica MARCHIDAN, Mihaela GEICU CRISTEA, Elisabeta Elena POPA, Gabriela BUTNARIU, Elena Narcisa BABEANU	Review on different applications of <i>Lavandula</i> spp. as a source of bioactive compounds
P.I.11.	Quthama AL ZAIDI, Florentina BADEA, Camelia Filofteia DIGUTA, Florentina MATEI	Comparison of classical versus qPCR methods in the detection of <i>Botrytis cinerea</i> in raspberries
P.I.12.	Amalia Carmen MITELUT, Elena MĂNĂILĂ, Silvana DĂNĂILĂ-GUIDEA, Mihaela DRĂGHICI, Ion NIȚU, Paul Alexandru POPESCU, Elisabeta Elena POPA, Gabriela CRĂCIUN, Mihaela GEICU-CRISTEA, Călina Petruța CORNEA, Mona Elena POPA	Preliminary research on superabsorbent hydrogels behavior to water and fertilizers absorption and release
P.I.13.	Pelias RAFANOMEZANTSOA, Noureddine KARKACHI	<i>Bacillus</i> sp. as a biopesticide against phytopathogenic fungi

## II. FOOD BIOTECHNOLOGY

P.II.1.	Asawir Esamaldeen Ebrahim MOHAMED, Oana-Alina BOIU-SICUIA, Călina Petruța CORNEA	Evaluation methods of mycotoxigenic contaminants in feed raw materials – a review
P.II.2.	Dan VODNAR, Adrian Martău ELEMER ȘIMON	Probiotics as nutraceuticals

Paper ID	Authors	Paper Title
P.II.3.	Wojciech CICHOCKI, Dominik KMIECIK, Hanna Maria BARANOWSKA, Hanna STAROSZCZYK, Agata SOMMER, Przemysław Łukasz KOWALCZEWSKI	Thermal oxidative stability of cold-pressed oil blends: GC–MS, LF NMR, DSC and studies
P.II.4.	Sabina-Andreea BOBEA, Nastasia BELC, Călina Petruța CORNEA	Technologies for sourdough obtaining, fermentation and applications – a review
P.II.5.	Oana Bianca OPREA, Liviu GACEU, Ingrid Camilla CLAUSEN, Sigurd SANNAN, Ignat TOLSTOREBROV	Research on the use of <i>Saccharina latissima</i> seaweed as a possible functional ingredient in the bakery industry
P.II.6.	Ecaterina-Andreea CONSTANTIN, Diana CONSTANTINESCU-ARUXANDEL, Florentina MATEI, Sergey SHAPOSHNIKOV, Florin OANCEA	Biochemical and microbiological characterization of traditional romanian fermented drinks - <i>Socata</i> and <i>Bors</i> - a review
P.II.7.	Adina NICHITA, Urszula Tylewicz, Mona Elena POPA	Transition to the future: meat analogues & cultured meat

### III. MEDICAL AND PHARMACEUTICAL BIOTECHNOLOGY

P.III.1.	Cristian MOISA, Andreea Ioana LUPITU, Lucian Octav COPOLOVICI, Dana Maria COPOLOVICI	Antimicrobial cell-penetrating peptides
P.III.2.	Diana GROPOȘILĂ-CONSTANTINESCU, Gabriela MĂRGĂRIT, Gabriela POPA, Dana BARBA	Moisturizers made with natural ingredients
P.III.3.	Mohammed Shaymaa Omar MOHAMMED, Nicoleta RADU, Mariana VOICESCU, Lucia Camelia PARVU, Narcisa BABEANU	Studies regarding antioxidant properties of antimicrobial bioproducts formulated with natural polymers

Paper ID	Authors	Paper Title
P.III.4.	Ramona-Daniela PAVALOIU, Fawzia SHA'AT, Corina BUBUEANU, Paul BARBUTA, Ciprian FODOR, Mariana FODOR	Liposomes with plant extracts in the treatment of cardiovascular diseases
P.III.5.	Dana MIU, Fawzia SHAAT, Ramona-Daniela PAVALOIU	Methods to improve bioavailability of natural senolytics - a mini review
P.III.6.	Monica ENACHE, Radu MORARU	Mechanisms of toxicity and microscopical tests for <i>Datura</i> herb
P.III.7.	Oana-Alina BOIU-SICUIA, Radu-Cristian TOMA, Camelia-Filofteia DIGUȚĂ, Călina Petruța CORNEA	Promising biofertilising endophytes as human pathogens suppressor agents

#### IV. ENVIRONMENTAL BIOTECHNOLOGY

P.IV.1.	Adrian SAPIÑA, Mario RUIZ, Óscar VICENTE, Mónica BOSCAIU	Salt stress on coast wetland plants
P.IV.2.	Cristina FIRINCĂ, Mariana CONSTANTIN, Iuliana RAUT, Raluca BUNGHEZ, Ana Maria GURBAN, Gelu VASILESCU, Mihaela DONI, Raluca SENIN, Nicoleta RADU, Luiza JECU	Biological methods for metallic nanoparticles synthesis
P.IV.3.	Cristina FIRINCĂ, Iuliana RĂUT, Mariana CONSTANTIN, Lucian-Gabriel ZAMFIR, Ana-Maria GURBAN, Gelu VASILESCU, Mihaela DONI, Nicoleta RADU, Luiza JECU	Nitrifying bacteria and its ecological impact on the soil

#### V. MISCELLANEOUS

P.V.1.	Samin SEDDIGH	Protein-protein interaction analysis of cadherin enzyme in <i>Drosophila melanogaster</i>
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Paper ID	Authors	Paper Title
P.V.2.	Marisa JIMÉNEZ PÉREZ, Estela MORENO PERIS, Ana María ADALID MARTÍNEZ, Ana FITA, Adrián RODRÍGUEZ BURRUEZO	Improvement of sweet pepper ( <i>Capsicum annuum</i> L.) landraces by hybridization to introduce virus resistances and adaptation to low input farming
P.V.3.	Andreea TUDOR (DUMITRU)	Biodegradation of plastic pollutants and identification of microorganisms capable of degrading plastic pollutants: review