

**MINISTRY OF EDUCATION**  
**“AUREL VLAICU” UNIVERSITY OF ARAD**  
**FACULTY OF FOOD ENGINEERING, TOURISM AND**  
**ENVIRONMENTAL PROTECTION**

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**STUDENT SCIENTIFIC SESSION**  
**FACULTY OF FOOD ENGINEERING, TOURISM AND**  
**ENVIRONMENTAL PROTECTION**

**PROGRAM**

**XX<sup>th</sup> Edition, November 24-26, 2022**

# **STUDENT SCIENTIFIC SESSION**

## **FACULTY OF FOOD ENGINEERING, TOURISM AND ENVIRONMENTAL PROTECTION “AUREL VLAICU” UNIVERSITY OF ARAD**

**XX<sup>th</sup> Edition, November 24-26, 2022**

**SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE STUDENȚEȘTI - Ediția a XX-a**

### **The Organizing Committee:**

Prof. Dr. Habil. Dana Maria COPOLOVICI

Assoc. Prof. Dr. Eng. Virgil CIUTINĂ

### **Scientific Committee:**

Assoc. Prof. Dr. Eng. Ioan CALINOVICI

Prof. Dr. Eng. Habil. Dorina Rodica CHAMBRE

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Assoc. Prof. Dr. Eng. Claudiu URSACHI

Prof. Dr. Habil. Alina Diana ZAMFIR

Prof. Dr. Eng. Monica ZDREMȚAN

## **PROGRAM**

**LOCATION:** "Aurel Vlaicu" University of Arad, building M, Faculty of Food Engineering, Tourism and Environmental Protection, Elena Drăgoi Str., no. 2-4, 134, Code 310 330, Arad.

### **Zoom**

Topic: STUDENT SCIENTIFIC SESSION 20th Edition

Time: Nov 24, 2022 10:00 AM Athens

Join Zoom Meeting

<https://us06web.zoom.us/j/84595847120?pwd=clJaanJXVjI2aWlrb3NpNzFpalFiZz09>

Meeting ID: 845 9584 7120

Passcode: FIATPM

**Thursday, November 24, 2022 / Joi, 24 Noiembrie 2022**

- 9.00-10.00 Registration of the participants**  
**Visit of the Institute of Technical and Natural Sciences Research-Development-Innovation of "Aurel Vlaicu" University of Arad**
- 10.00-10.30 WELCOME SPEECH / DESCHIDEREA OFICIALĂ A EVENIMENTULUI**  
Rector of „Aurel Vlaicu” University of Arad: Dr. Ramona Lile  
Vice-rector of „Aurel Vlaicu” University of Arad: Prof. Dr. Eng. Alexandru Popa,  
Vice-rector of „Aurel Vlaicu” University of Arad: Prof. Dr. Codruta Stoica  
Dean of Faculty of Food Engineering, Tourism and Environmental Protection: Assoc. Prof. Dr. Eng. Virgiliu Ciutina  
Research responsible of Department of Technical and Natural Sciences: Prof. Dr. Habil. Dana Copolovici

**SECTION I**  
**Environmental Science and Engineering**  
**Environmental Protection**  
**Biodiversity**  
**Health**  
**Applied Biology**

**Chairman: Prof. dr. habil. Lucian Copolovici**  
**Prof. dr. habil. Dorina Chambre**  
**Prof. dr. habil. Dana Copolovici**

**TESTING ESSENTIAL OILS FROM PLANTS TO INHIBIT THE GROWTH OF AIRBORNE FILAMENTOUS FUNGI**

10.30-10.40 Iana Andreea Ghimisi (Dragomir), Marcela Chiru, Denis Nenciu, Daniela Văcăroaia, Bernath-Edvin Denes,  
OP 1 Beatrice Sandu  
Scientific coordinator: Irina Grebenișan  
*University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation and Environmental Engineering*

10.40-10.50 **EXPRIMAREA ȘI PURIFICAREA CITOCROMULUI P450 FUZIONAT DE ETICHETA MBP**  
OP 2 Sebastian Florin Oana, Oana-Raluca Koblicska, Iulia Lupan  
*Universitatea Babeș-Bolyai, Facultatea de Biologie și Geologie, Cluj-Napoca*  
**TESTING MICROBIOLOGICAL AND UV RADIATIONS RESISTANCE OF GEOSYNTHETIC MATERIALS**

10.50-11.00 Alexandru Manolache, Ștefan Bărbulescu, Alexandra Băicoianu, Bogdan Petraru  
OP 3 Scientific coordinators: Irina Grebenișan, Roxana Sălcianu  
*University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation and Environmental Engineering*

**PRELIMINARY STUDIES FOR OBTAINING FILAMENTOUS FUNGI THAT PRODUCE NATURAL PIGMENTS**

11.00-11.10 Ariana Dîrleci, Irina Zota, Elena Popescu  
OP 4 Scientific coordinator: Irina Grebenișan  
*University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation and Environmental Engineering*

**DETERMINATION OF COMPARATIVE GEOSPATIAL NOISE MAPS IN GREEN AREAS AND IN CROWDED INTERSECTIONS**

11.10-11.20 Paul Bocu, Alexandru Petruș, Patric Butnariu  
OP 5 Scientific coordinator: Irina Grebenișan  
*University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation and Environmental Engineering*

**OPINION SURVEY ON THE IMPORTANCE OF GREEN AREAS FOR REDUCING NOISE POLLUTION IN THE URBAN ECOSYSTEMS**

11.20-11.30 Patric Butnariu, Paul Bocu, Alexandru Petruș  
OP 6 Scientific coordinator: Irina Grebenișan  
*University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation and Environmental Engineering*

**VERMICOMPOSTING: A ZERO-WASTE TECHNOLOGY IN THE CIRCULAR BIOECONOMY**

11.30-11.40 Aurelian Ioan, Paul Bocu, Ștefan Bărbulescu, Alexandra Băicoianu  
OP 7 Scientific coordinator: Irina Grebenișan  
*University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation and Environmental Engineering*

**STUDIES ON RIVER WATER POLLUTION WITH MICROPLASTICS**

11.40-11.50 Corina Irina Drăgan, Ariana Dîrleci, Irina Zota, Andreea Marin  
OP 8 Scientific coordinators: Irina Grebenișan, Roxana Sălcianu

**THE INFLUENCE OF SAGE EXTRACT ON THE ANXIETY PROFILE AND OXIDATIVE STRESS IN *DANIO RERIO***

- 11.50-12.00 Georgiana Raluca Bejenaru, Gabriela Dumitru\*, Lucian Hrițcu, Răzvan Ștefan Boianțiu, Elena Todirașcu-Ciornea  
OP 9  
*Faculty of Biology, "Alexandru Ioan Cuza" University*

**12.00-12.30 Coffee Break**

**THE IMPACT OF *FALCARIA VULGARIS* EXTRACT ADMINISTRATION ON COGNITIVE PROCESSES IN THE ZEBRAFISH MODEL**

- 12.30-12.40 Andreea Drăgan, Gabriela Dumitru\*, Lucian Hrițcu, Răzvan Ștefan Boianțiu, Elena Todirașcu-Ciornea  
OP 10  
*Faculty of Biology, "Alexandru Ioan Cuza" University*

**CHROMOANAGENESIS IN EWING SARCOMA**

- 12.40-12.50 Dudău Alexandra  
OP 11  
*Babeș-Bolyai University, Faculty of Biology and Geology, Department of Molecular Biology and Biotechnology, Biochemistry*

**COULD PLANTS GROWN AT ELEVATED CARBON DIOXIDE BE MORE TOLERANT TO OZONE?**

- 12.50-13.00 Flavia Bortes, Lucian Copolovici, Cristian Moisa, Andreea Lupitu, Dana Copolovici  
OP 12  
*"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism, and Environmental Protection, Research Center in Technical and Natural Sciences*

**BEEES AND ODOURS**

- 13.00-13.10 Mihai Gașpar<sup>1,2</sup>, Andreea Lupitu<sup>1\*</sup>, Cristian Moisa<sup>1</sup>, Denisa Peteleu<sup>1,2</sup>, Lucian Copolovici<sup>1</sup>  
OP 13  
<sup>1</sup>*"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection and Institute of Technical and Natural Sciences Research-Development-Innovation*  
<sup>2</sup>*"Aurel Vlaicu" University of Arad, Faculty of Exact Sciences*

**PANEL STUDY OF INFLAMMATION IN INFARCTION**

- 13.10-13.20 Bianca Elena Motaș<sup>1</sup>, Gabriela Dumitru<sup>1\*</sup>, Silvia Dumitrașcu<sup>2</sup>, Elena Todirașcu-Ciornea<sup>1</sup>  
OP 14  
<sup>1</sup>*"Alexandru Ioan Cuza" University, Faculty of Biology*

**RED CABBAGE PLANTS: EXAMINING THE IMPACT OF HIGH CARBON DIOXIDE AND OZONE STRESS ON PLANT GROWTH**

- 13.20-13.30 Denisa Peteleu, Andreea Lupitu, Cristian Moisa, Virgiliu Ciutină, Dana Copolovici, Lucian Copolovici  
OP 15  
<sup>1</sup>*"Aurel Vlaicu" University of Arad, Faculty of Exact Sciences*  
<sup>2</sup>*Institute of Technical and Natural Sciences Research-Development-Innovation of "Aurel Vlaicu" University of Arad*

**THE INFLUENCE OF *EQUISETUM PRATENSE* EXTRACT ON NEURODEGENERATED DISEASES IN *DANIO RERIO***

- 13.30-13.40 Claudia Melissa Păuleț, Gabriela Dumitru\*, Răzvan Ștefan Boianțiu, Lucian Hrițcu, Elena Todirașcu-Ciornea  
OP 16  
*"Alexandru Ioan Cuza" University, Faculty of Biology*

**THE EFFECTS OF CLIMATE CHANGE ON GERMINATION OF *BRASSICA OLERACEA* SPECIES**

- 13.40-13.50 Adina-Alina Căpățînă<sup>1</sup>, Andreea Lupitu<sup>1\*</sup>, Lucian Copolovici<sup>1</sup>  
OP 17  
<sup>1</sup>*Faculty of Food Engineering, Tourism and Environmental Protection and Institute of Technical and Natural Sciences Research-Development-Innovation of "Aurel Vlaicu" University of Arad*

**THE INFLUENCE OF *GLAUCOSCIADIUM CORDIFOLIUM* EXTRACT ON MEMORY IN *DANIO RERIO***

- 13.50-14.00 Bianca Daniela Parvana, Gabriela Dumitru\*, Lucian Hrițcu, Răzvan Ștefan Boianțiu, Elena Todirașcu-Ciornea  
OP 18  
*"Alexandru Ioan Cuza" University, Faculty of Biology*

**Soil sporobiota's impact upon gastrointestinal tract microbiota**  
14.00-14.10 Laurentiu-Adrian Urucu<sup>1</sup>, Dana Gina Radu<sup>1\*</sup>  
OP 19 *"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection*

**HEMATOLOGICAL CHANGES IN CHRONIC LYMPHOCYTIC LEUKEMIA**  
14.10-14.20 Ioana Iftinca<sup>1</sup>, Gabriela Dumitru<sup>1\*</sup>, Silvia Dumitraşcu<sup>2</sup>, Elena Todiraşcu-Ciornea<sup>1</sup>  
OP 20 <sup>1</sup>*"Alexandru Ioan Cuza" University, Faculty of Biology*  
<sup>2</sup>*Comprehensive School No. 1 Râmnicelu, Buzău*

**CARACTERIZAREA ŞI ANALIZA UNUI PRODUS BIOCOSMETIC: GELUL DE CURĂŢARE CU EXTRACT VEGETAL DE COADA ŞORICELULUI**  
14.20-14.30 Lăpădat Andreea Laura, Costina Andreea, Carpa Rahela  
OP21 *Facultatea de Biologie şi Geologie, Universitatea Babeş-Bolyai, Cluj-Napoca, România*

**14.30-15.20 Lunch / Pranz**

**SECTION II**  
**Food Technology**  
**Food Engineering**  
**Nutrition**  
**Food Quality and Food Security**  
**Agrotourism Management**  
**Sustainability**

**Chairman: Prof. dr. habil. Dana Copolovici**  
**Assoc.Prof.dr.eng. Dana Radu**  
**Prof. dr.habil. Simona Vicas**

15.20-15.30 **SECTION PRESENTATION / PREZENTAREA SECTIUNII**

**VALORISATION OF ACACIA FLOWER POWDER (*ROBINIA PSEUDOACACIA*) IN THE MANUFACTURING OF GLUTEN-FREE GINGERBREAD**  
15.30-15.40 Cristina Berengea, Adriana Păucean, Simona Man, Simona Chiş, Anca Fărcaş, Andruţa Mureşan  
OP1 *Faculty of Food Science and Technologies, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca*

**DESIGNING NEW BIGELS FOOD SYSTEMS FOR REPLACING SATURATED AND TRANS FATS IN SOME CONFECTIONERY PRODUCTS**  
15.40-15.50 Anca-Alexandra Cornea, Anda Elena Tanislav, Vlad Mureşan  
OP2 *Faculty of Food Science and Technology, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca*

**EFFECTUL ÎNLOCUIRII PARŢIALE A CĂRNII DE PORC CU EXTRACT APOS DE *BOLETUS EDULIS* MICROÎNCAPSULAT ASUPRA CALITĂŢII CRENVURŞTILOR**  
15.50-16.00 Maria-Jenica Urs  
OP3 *Coordonatori ştiinţifici: Prof. univ. dr. Cristina Anamaria Semeniuc, Şef lucr. dr. Melinda Fogarasi, Asist. dr. Maria-Ioana Socaciu*  
*Universitatea de Ştiinţe Agricole şi Medicină Veterinară din Cluj-Napoca*

**THE INFLUENCE OF SOME PESTICIDES AND FOLIAR FERTILIZERS ON PEPPERS AND TOMATOES**  
16.00-16.10 Gheorghita Florentina Gătej<sup>1</sup>, Elena Todiraşcu-Ciornea<sup>1\*</sup>, Silvia Dumitraşcu<sup>2</sup>, Gabriela Dumitru<sup>1</sup>  
OP4 <sup>1</sup>*"Alexandru Ioan Cuza", University Faculty of Biology*

**THE PHYTOCHEMICAL PROFILE OF URTICA DIOICA EXTRACT AND THE ROLE OF ITS INCLUSION IN THE ATHLETE'S DIET-RECENT LITERATURE REVIEW**  
16.10-16.20 Sergiu Ionuţ Mateşan, Florina Groza  
OP5 *University of Oradea, Faculty of Medicine and Pharmacy, Nutrition and Dietetics*

**ADDITION OF BARLEY GRASS JUICE IN CARP FEED**  
16.20-16.30  
OP6

Gheorghita Florentina Gatej<sup>1</sup>, Elena Todiraşcu-Ciornea<sup>1\*</sup>, Cristian-Alin Barbacariu<sup>2</sup>, Lenuţa Dîrvariu<sup>2</sup>, Marian Burducea<sup>2</sup>, Gabriela Dumitru<sup>1</sup>

<sup>1</sup>"Alexandru Ioan Cuza" University, Faculty of Biology

<sup>2</sup>"Alexandru Ioan Cuza" University, Research and Development Station for Aquaculture and Aquatic Ecology

**FOOD WASTE BIOCONVERSION BY *HERMETIA ILLUCENS* LARVAE; LARVAL GROWTH CURVES UNDER DIFFERENT FEED RATE, BROMATOLOGICAL AND MICROBIOLOGICAL CHARACTERIZATION OF DRIED PREPUPAE**

16.30-16.40  
OP7

Llanos-Lizcano Rodolfo <sup>1</sup>, Solano-Bolivar Santander <sup>2</sup>, Llanos-Lizcano Alejandro <sup>2</sup>

<sup>1</sup> Babeş-Bolyai University, Cluj-Napoca, Romania

<sup>2</sup>Universidad del Atlántico, Colombia

**RESEARCH REGARDING THE ALCHOOL FREE WINE**

16.40-16.50  
OP8

Georgiana Raluca Crainic, Andreea Nicoleta Crainic, coordonator: Associated prof. dr. ing. Timar Adrian  
*Universitatea din Oradea, Facultatea de Protecția Mediului, Departamentul de Ingineria Produselor Alimentare*

**POSTERS PRESENTATION / PREZENTARE POSTERE  
PRODUCTS PRESENTATION / PREZENTARE PRODUSE**

**Chairman: S.L.dr. Claudia Muresan**

**S.L.dr. Sergiu Palcu**

**CSIII Dr. Cristian Moisa**

16.50-18.00

**EVALUATING AIR QUALITY OF A RESIDENTIAL BUILDING BASED ON FLOOR LEVELS**

Aurel Sebastian Lucaciu, Lucian Copolovici

PP1 "Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Elena Drăgoi street, Arad, Romania

**EXTRACTS OF *CENTAUREA JACEA* L.**

Paul Sălăjan<sup>1</sup>, Dana Maria Copolovici <sup>1,2</sup>

PP2 <sup>1</sup>"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism, and Environmental Protection

<sup>2</sup>Institute of Technical and Natural Sciences Research-Development-Innovation of "Aurel Vlaicu" University of Arad

**SWEET AND TASTY HIGH FIBER FRUIT SNACKS**

PProd 1 DENISA PETELEU, MIHAI GASPARGAR, ANDREEA LUPITU, CRISTIAN MOISA

"Aurel Vlaicu" University of Arad

**VEGAN COCONUT TRUFFLES**

PProd 2 Flavia Bortes, Cristian Moisa, Lucian Copolovici

"Aurel Vlaicu" University of Arad

**HIGH PROTEIN GLUTEN-FREE MUFFINS**

PProd 3 Mihai Gaspar, Denisa Peteleu, Andreea Lupitu, Cristian Moisa

"Aurel Vlaicu" University of Arad

**Chicken breast sausage with cranberries and chia seeds**

PProd 4 Timotei Bondea, Daniela Maria Diaconescu

"Aurel Vlaicu" University of Arad

**PROJECT ERASMUS+, 2019-3-TR01-KA205-080177- "GREEN THINKING ENTREPRENEUR YOUTH" DISSEMINATION ACTIVITY**

18.00-18.30 **AWARD CEREMONY / CEREMONIA DE PREMIERE**

**CLOSING REMARKS / CONCLUZII**

**Friday, November 25, 2022**

**9.00-10.00 Visit of the Institute of Technical and Natural Sciences Research-Development-Innovation of “Aurel Vlaicu” University of Arad**

You are all welcome to assist the presentation at PhD Students’ Days.

**LOCATION:** "Aurel Vlaicu" University of Arad, building M, Faculty of Food Engineering, Tourism and Environmental Protection, Elena Drăgoi Str., no. 2-4, A1, Code 310 330, Arad.

**Zoom:** Topic: PhD STUDENTS’ DAYS

Time: Nov 25, 2022 10:00 AM Athens

Join Zoom Meeting

<https://us06web.zoom.us/j/85392702077?pwd=QXUUrS05kNXZlZD24rT0FVUm5sWU1LQT09>

Meeting ID: 853 9270 2077

Passcode: FIATPM

19.00 Gala Dinner, Ratio Restaurant

**Saturday, November 26, 2022**

**Trip to Parcul Natural Lunca Muresului (aprox. 3-4 hours)**

**9.30-** Ursului Str. Arad, Students Hostel

**10.00-** "Aurel Vlaicu" University of Arad, building M, Faculty of Food Engineering, Tourism and Environmental Protection, Elena Drăgoi Str., no. 2-4, Code 310 330, Arad.

**We thank the Project ERASMUS+, 2019-3-TR01-KA205-080177-”Green Thinking Entrepreneur Youth” for the provided sponsorships for the best students' awards!**

**We thank to our sponsors for the provided sponsorships for the best students' awards:**



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**NOTES:** Abbreviations: OP = oral presentation, PP = poster presentation.