

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

310330 Arad, Str. Elena Drăgoi, Nr. 2-4, Arad

Tel/fax: 0040-257-280070

<http://www.uav.ro> e-mail: studenti.fiatpm.uav@gmail.com



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

PROGRAM

XXIth Edition, May 29-31, 2023

ARAD, ROMANIA

STUDENT SCIENTIFIC SESSION

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

XXIth Edition, May 29-31, 2023

SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE STUDENȚEȘTI - Ediția a XXI-a

The Organizing Committee:

Prof. Dr. Habil. Dana Maria COPOLOVICI

Assoc. Prof. Dr. Eng. Virgiliu CIUTINĂ

Scientific Committee:

Assoc. Prof. Dr. Eng. Ioan CALINOVICI

Prof. Dr. Eng. Habil. Dorina Rodica CHAMBRE

Assoc. Prof. Dr. Eng. Virgiliu CIUTINĂ

Assoc. Prof. Dr. Habil. Dana Maria COPOLOVICI

Prof. Dr. Habil. Lucian COPOLOVICI

Assoc. Prof. Eng. Daniela DIACONESCU

Assoc. Prof. Eng. Anca DICU

Assoc. Prof. Dr. Eng. Monica LUNGU

Prof. Dr. Habil. Florentina Daniela MUNTEANU

Assoc. Prof. Dr. Eng. Dana Gina RADU

Assoc. Prof. Dr. Eng. Eugenia ȚIGAN

Assoc. Prof. Dr. Eng. Claudiu URSACHI

Prof. Dr. Habil. Alina Diana ZAMFIR

Prof. Dr. Eng. Monica ZDREMȚAN

CSIII Dr. Eng. Andreea LUPITU

CSIII Dr. Eng. Cristian MOISA

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 21st Edition

Time: May 29, 2023, 12:00 PM Athens

Join Zoom Meeting

<https://zoom.us/j/93337085408?pwd=Uy8yK3VNa2hQdnIwL1ZaUGUvRDE2UT09>

Meeting ID: 933 3708 5408

Passcode: 080899

Monday, May 29, 2023 / Luni, 29 Mai 2023

- 11.00-12.00 Registration of the participants**
Visit of the Institute of Technical and Natural Sciences Research-Development-Innovation of “Aurel Vlaicu” University of Arad
- 12.00-12.30 WELCOME SPEECH / DESCHIDEREA OFICIALĂ A EVENIMENTULUI**
Rector of „Aurel Vlaicu” University of Arad: 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**

WATER QUALITY MONITORING

Estera Bivolaru

12.30-12.40 Scientific coordinator: Irina Grebenișan
OP 1 *University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation and Environmental Engineering*

12.40-12.50 **ANTIOXIDANT PROPERTIES OF *EQUISETUM ARVENSE* L. ESSENTIAL OIL IN *DANIO RERIO***
OP 2 Andreea Drăgan, Lucian Hritcu, Elena Todirașcu-Ciornea*, Razvan Stefan Boiangiu, Gabriela Dumitru
Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania

12.50-13.00 **CANNABIS SATIVA AND ITS THERAPEUTIC POTENTIAL**
OP 3 Andra Boșcodeală, Elena Todirașcu-Ciornea*, Gabriela Dumitru
Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania

THE INFLUENCE OF ABIOTIC FACTORS ON THE *SILURUS GLANIS* SPECIES
Gheorghita Florentina Gătej¹, Elena Todirașcu-Ciornea^{1*}, Cristian-Alin Barbacariu², Lenuța Dîrvariu², Marian Burducea², Gabriela Dumitru¹
13.00-13.10 OP 4 ¹*Faculty of Biology, "Alexandru Ioan Cuza", Iasi, Romania*, ²*Research and Development Station for Aquaculture and Aquatic Ecology, "Alexandru Ioan Cuza" University, Iasi, Romania*

THE ROLE OF MINERAL NUTRITION IN THE MITIGATION OF OXIDATIVE STRESS PRODUCED BY THE ADMINISTRATION OF PESTICIDES TO PLANTS
13.10-13.20 OP 5 Liliana Lițu, Elena Todirașcu-Ciornea*, Gabriela Dumitru
Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania

EVALUATION OF INDOOR-GROWN BRASSICA OLERACEA MICROGREENS CULTIVATED AT DIFFERENT CO₂ CONCENTRATIONS
13.20-13.30 OP 6 Adina-Alina Căpățînă, Andreea Lupitu *, Cristian Moisă, Lucian Copolovici
Faculty of Food Engineering, Tourism and Environmental Protection and Institute of Technical and Natural Sciences Research-Development-Innovation of "Aurel Vlaicu" University, Arad, Romania.

CORIANDRUM SATIVUM LINN. ATTENUATED SCOPOLAMINE – INDUCED ANXIETY AND OXIDATIVE STRESS IN THE AMNESTIC ZEBRAFISH MODEL
13.30-13.40 OP 7 Gheorghe-Ciprian Bîrsan¹, Gabriela Dumitru^{1*}, Răzvan Ștefan Boiangiu¹, Ion Brînză¹, Lucian Hrițcu¹, Oana Cioancă², Monica Hîncianu², Elena Todirașcu-Ciornea¹
¹*Department of Biology, Faculty of Biology, Alexandru Ioan Cuza University of Iasi, Iasi, Romania*,
²*Department of Pharmacognosy, Faculty of Pharmacy, Grigore T Popa University of Medicine and Pharmacy Iasi, Iasi, Romania*

THE INFLUENCE OF *EQUISETUM TELMATEIA* ESSENTIAL OIL ON NEURODEGENERATED DISEASES IN *DANIO RERIO*
13.40-13.50 OP 8 Alexandra Ionela Anăstăsoaiei, Gabriela Dumitru*, Lucian Hrițcu, Răzvan Ștefan Boiangiu, Elena Todirașcu-Ciornea
Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania

THE IMPACT OF *FOENICULUM VULGARE* MILL. ESSENTIAL OIL ADMINISTRATION ON COGNITIVE PROCESSES IN THE ZEBRAFISH MODEL
13.50-14.00 OP 9 Alexandra Serban, Gabriela Dumitru*, Lucian Hrițcu, Răzvan Ștefan Boiangiu, Elena Todirașcu-Ciornea
Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania

14.00-14.10 **PATHOPHYSIOLOGY OF THROMBOCYTOPENIC PURPURA**
OP 10 Diana Dolcean¹, Gabriela Dumitru^{1*}, Silvia Dumitrașcu², Elena Todirașcu-Ciornea¹

¹Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania, ²Comprehensive School No. 1 Ramnicelu, Buzau County, Romania

CLINICAL CHANGES IN POLYCYTHEMIA VERA

14.10-14.20 Bianca Baci¹, Gabriela Dumitru^{1*}, Silvia Dumitraşcu², Elena Todiraşcu-Ciornea¹

OP 11 ¹Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania, ²Comprehensive School No. 1 Ramnicelu, Buzau County, Romania

HEMATOLOGICAL AND BIOCHEMICAL MODIFICATIONS IN CHOLECYSTITIS

14.20-14.30 Roxana Elena Punei¹, Gabriela Dumitru^{1*}, Silvia Dumitraşcu², Elena Todiraşcu-Ciornea¹

OP 12 ¹Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania, ²Comprehensive School No. 1 Ramnicelu, Buzau County, Romania

14.30-16.00 Lunch

INDOOR AIR QUALITY HAZARDS - CONNECTION WITH CLIMATE CHANGE

Camelia Alexandra Bogdan, Vlad Eftimie

16.00-16.10 Scientific coordinators: Irina Grebenişan, Roxana Sălcianu

OP 13 *University of Agronomic Sciences and Veterinary Medicine of Bucharest, Faculty of Land Reclamation and Environmental Engineering, Bucharest, Romania.*

THE HIGH ATMOSPHERIC CARBON DIOXIDE CONCENTRATION IMPACT ON THE PLANTS METABOLITES

16.10-16.20 Flavia Bortes, Cristian Moisa, Andreea Lupitu, Dana Copolovici, Lucian Copolovici

OP 14 *Faculty of Food Engineering, Tourism, and Environmental Protection, Research Center in Technical and Natural Sciences, Aurel Vlaicu University of Arad, Arad, Romania.*

CLOTRIMAZOLE DRUG LOADING AND RELEASE EXPERIMENTS USING MESOPOROUS SILICA FUNCTIONALIZED IN SITU WITH MERCAPTOPROPYL GROUP AS CARRIERS

16.20-16.30 Diana-Oana Rusu, Ana-Maria Putz

OP 15 *"Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania.*

CARL FRIEDRICH GAUSS – LIFE AND SCIENTIFIC ACTIVITY

Alexandru-Valentin ANDREI¹, Gina BUJOR¹, Ioana MACOVEI¹, Andra VIŞAN¹

16.30-16.40 Scientific Coordinator: Cosmin-Constantin NIŢU¹

OP 16 ¹Faculty of Land Reclamation and Environmental Engineering, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Bucharest, Romania.

THE EFFECTS OF FLOODING ON BRASSICACEAE PLANTS GROWN IN HIGH CARBON DIOXIDE CONCENTRATIONS

16.40-16.50 Denisa Ioana PETELEU¹, Andreea LUPITU², Cristian MOISĂ², Flavia BORTEŞ², Dana COPOLOVICI²,
OP 17 Lucian COPOLOVICI²

¹Faculty of Exact Sciences of "Aurel Vlaicu" University, Arad, Romania, ²Institute of Technical and Natural Sciences Research-Development-Innovation of "Aurel Vlaicu" University, Arad, Romania.

PERCEPŢIA CONSUMATORILOR FAŢĂ DE PENSIUNILE/HOTELURILE CU ETICHETĂ ECOLOGICĂ EUROPEANĂ. STUDIU COMPARATIV ÎNTRE ORAŞELE ARAD ŞI DEVA.

16.50-17.00 Magda Alina-Larisa, Eugenia Țigan

OP18 *"Aurel Vlaicu" University, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania.*

SPOROBIOTA'S INTERACTIONS WITHIN THE HUMAN GUT MICROBIOME

17.00-17.10 Laurentiu-Adrian Urucu¹, Dana Gina Radu^{1*}

OP19 *"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania*

17.10-17.20 **COFFEE BREAK**

19.00 DINNER AT RESTAURANT RATIO (STRANDUL NEPTUN, ARAD)

Tuesday, 30 May, 2023

10.00-11.00 Visit of the Institute of Technical and Natural Sciences Research-Development-Innovation of “Aurel Vlaicu” University of Arad, Elena Dragoi Str. Nr. 2, Arad

14.00-15.00 Lunch

SECTION II

Food Technology; Food Engineering; Nutrition; Food Quality and Food Security; Agrotourism Management; Sustainability

Chairman: Prof. dr. habil. Dana Copolovici
CS III Dr. Cristian Moisa
Prof. dr.habil. Simona Vicas

RESEARCH ON THE USE OF PEAS AS A QUALITY PROTEIN SOURCE IN CARP FEEDING

- 15.00-15.10 **OP1** Gheorghita Florentina Gătej¹, Elena Todiraşcu-Ciornea^{1*}, Cristian-Alin Barbacariu², Lenuţa Dîrvariu², Marian Burducea², Gabriela Dumitru¹
¹Faculty of Biology, “Alexandru Ioan Cuza”, Iasi, Romania, ²Research and Development Station for Aquaculture and Aquatic Ecology, “Alexandru Ioan Cuza” University, Iasi, Romania

DEVELOPMENT AND CHARACTERIZATION OF NOVEL BIGELS IN ORDER TO OBTAIN CONFECTIONERY PRODUCTS

- 15.10-15.20 **OP2** Anca-Alexandra Cornea, Anda Elena Tanislav, Vlad Mureşan
Faculty of Food Science and Technology, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Cluj-Napoca, Romania

DEZVOLTAREA ŞI CARACTERIZAREA UNOR LIPIDE STRUCTURATE INDIRECT CU HIDROCOLOIZI ŞI PROTEINE

- 15.20-15.30 **OP3** Cristina Furtuna, Vlad Mureşan, Andreea Puşcaş
Faculty of Food Science and Technology, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Cluj-Napoca, Romania.

STUDIES ON OBTAINING AN ASSORTMENT OF CRACKERS WITH HIGH NUTRITIONAL VALUE AND LOW SATURATED FAT CONTENT USING AVOCADO PASTE

- 15.30-15.40 **OP4** Cristina Berengea, Mihaela Moldovan, Adriana Păucean, Simona Man, Simona Chiş
Faculty of Food Science and Technologies, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Cluj-Napoca, Romania.

FORMULAREA UNOR JELEURI ÎMBOGĂŢITE CU PROBIOTICE

- 15.40-15.50 **OP5** Bornea Alexandru-Cristian, Rus Ana-Maria, Claudiu Ursachi
“Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania

THE EFFECTS OF OLEOGEL ON TART SHELLS

- 15.50-16.00 **OP6** Corina Mihaela Pop, Andreea Puşcaş, Simona Chiş, Vlad Mureşan, Sevastita Muste
Faculty of Food Science and Technology, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Cluj-Napoca, Romania.

16.00-16.10 COFFEE BREAK

THE FOOD OF THE FUTURE OR THE FUTURE OF FOOD

- 16.10-16.20 **OP7** Zina PARASCHIV, Cristina-Andreea POPA
*Scientific Coordinator: Assoc. prof. Alina ORȚAN
University of Agronomic Sciences and Veterinary Medicine of Bucharest, Bucharest, Romania.*

- 16.20-16.30
OP8 **DESIGNING A NEW VARIETY OF HALVA FROM *FAGUS SYLVATICA* SEEDS**
Bianca-Magdalena CILIBOAIE, Vlad MUREȘAN, Andreea PUȘCAȘ
University of Agricultural Sciences and Veterinary Medicine Cluj Napoca, Cluj-Napoca, Romania.
- 16.30-16.40
OP9 **DEZVOLTAREA UNUI SORTIMENT NOU DE GRISINE PE BAZĂ DE ALGE WAKAME (*UNDARIA PINNATIFIDA*)**
Clementina – Mercedes DRUMEA, Adriana PĂUCEAN, Simona Maria MAN, Maria Simona CHIȘ
Universitatea de Științe Agricole și Medicină Veterinară, Facultatea Știința și Tehnologia Alimentelor, Cluj-Napoca, Cluj-Napoca, România.
- 16.40-16.50
OP10 **PHYTOCHEMICAL, PHARMACOLOGICAL AND TOXICOLOGICAL PROPERTIES OF GINGER**
Andreea Drăgan, Elena Todirascu-Ciornea*, Gabriela Dumitru
Faculty of Biology, "Alexandru Ioan Cuza" University, Iasi, Romania
- 16.50-17.00
OP11 **FORMAREA DEPRINDERILOR ALIMENTARE SĂNĂTOASE ALE ELEVILOR PRIN SUSTINEREA CONSUMULUI ZILNIC DE FRUCTE ȘI LEGUME**
Pintiliciuc Claudia Larisa Veronica, Dana Gina Radu
Universitatea „Aurel Vlaicu” din Arad, corp M, Facultatea de Inginerie Alimentară, Turism și Protecția Mediului, Arad, Romania.

POSTERS PRESENTATION / PREZENTARE POSTERE

- PP1 **NOISE DETERMINATION IN INDUSTRIAL WORKROOMS**
Robert WERNITZER, Dana Maria COPOLOVICI
"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania.
- PP2 **NOISE OF DIFFERENT HOUSEHOLD ELECTRIC APPLIANCES IN REAL LIVING ENVIRONMENTS**
Iasmina VUTAN, Dana Maria COPOLOVICI
"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania.
- PP3 **NOISE LEVEL EVALUATION IN DIVERSE AREAS IN CHISINEU-CRIS, ARAD COUNTY**
Ioana VUTAN, Dana Maria COPOLOVICI
"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania.
- PP4 **THE DETERMINATION OF FATTY ACIDS' CONTENTS FOR COMMERCIAL FRESH FISH**
Diana MUHA, Dana Maria COPOLOVICI
"Aurel Vlaicu" University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania.
- PP5 **BIOLOGICAL PROPERTIES OF *CENTAUREA JACEA* L. EXTRACTS**
Paul Salajan¹, Cristian Moisa², Lucian Copolovici^{1,2}, Dana Maria Copolovici^{1,2}
¹Faculty of Food Engineering, Tourism, and Environmental Protection, Arad, Romania; ²Institute of Technical and Natural Sciences Research-Development-Innovation of "Aurel Vlaicu" University, Arad, Romania.
- 17.15-17.30 **AWARD CEREMONY / CEREMONIA DE PREMIERE**
CLOSING REMARKS / CONCLUZII

Thursday, May 31, 2023

Tour visit of Arad city

The participants departure

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



Tehnical Consulting Business MGT SRL, Timisoara, Romania

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