

**MINISTRY OF EDUCATION AND RESEARCH
“AUREL VLAICU” UNIVERSITY OF ARAD
INTERDISCIPLINARY DOCTORAL SCHOOL**

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

Tel/fax: 0040-257-280070, <http://www.uav.ro>



PHD STUDENTS' DAYS

PROGRAM

The Vth Edition, May 22-24, 2025

ARAD, ROMANIA

PHD STUDENTS' DAYS

INTERDISCIPLINARY DOCTORAL SCHOOL “AUREL VLAICU” UNIVERSITY OF ARAD

The Vth Edition, May 22-24, 2025

The Organizing Committee:

Chair: Prof. Dr. Habil. Lucian COPOLOVICI

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Development of Isotopic and Molecular Technologies, INCDTIM, Cluj-Napoca, Romania

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Chemistry, Timișoara, Romania

Prof. Dr. Radu ȘUMALAN, University of Life Sciences “King Mihai I of Romania”,
Timișoara, Romania

Assoc. Prof./Docent Dr. Salme TIMMUSK, Uppsala BioCenter, SLU, Sweden

Prof. Dr. Habil. Simona Ioana VICAS, University of Oradea, Romania

PROGRAM

LOCATION: "Aurel Vlaicu" University of Arad, building M, F, Elena Drăgoi Str., no. 2-4, A1 Room, Code 310330, Arad.

Zoom

Lucian Copolovici is inviting you to a scheduled Zoom meeting.

Topic: PhD Students Day

Time: May 23, 2025 09:00 AM Athens

Join Zoom Meeting

<https://us05web.zoom.us/j/3089208383?pwd=K2Uxc2h3QU1oQWl4V21yR2t3TTNCQT09&omn=89961130722>

Meeting ID: 308 920 8383

Passcode: FIATPM

Thursday, May 22, 2025 / Joi 22 Mai 2025

12.00-13.00 Registration of the participants

13.00-14.00 Lunch

14.00-14.30 Visit the Faculty of Food Engineering, Tourism and Environmental Protection of "Aurel Vlaicu" University of Arad

14.30-15.30 Visit the Research Center in Technical and Natural Sciences, Interdisciplinary Research Institute of "Aurel Vlaicu" University of Arad

16.00-17.00 Visit the Research Center for Sustainable Bio-Eco-Economy, Interdisciplinary Research Institute of "Aurel Vlaicu" University of Arad

19.00 DINNER AT RESTAURANT RATIO (STRANDUL NEPTUN, ARAD)

Friday, May 23, 2025 / Vineri 23 Mai 2025

8.30 – 9.00 Registration of the participants

WELCOME SPEECH / DESCHIDEREA OFICIALĂ A EVENIMENTULUI

9.00-9.30 Rector of „Aurel Vlaicu” University of Arad: Assoc. Prof. dr. Teodor Cilan

Vicerector of „Aurel Vlaicu” University of Arad: Prof. dr. habil. Dana Copolovici

Vicerector of „Aurel Vlaicu” University of Arad: Assoc. Prof. dr. Cristina Nicolaescu

Vicerector of „Aurel Vlaicu” University of Arad: Prof. dr. Sebastian Liviu Bocîi

Vicerector of „Aurel Vlaicu” University of Arad: Prof. dr. habil. Ovidiu Florin Toderici

Director of Council for Doctoral University Studies: Prof. dr. habil. Florentina Munteanu

Director of Interdisciplinary Doctoral School: Prof. dr. habil. Florica Bodiştean

SECTION PRESENTATION / PREZENTAREA SECTIUNII

Chairman: Prof.dr.habil. Lucian Copolovici

Prof.dr.habil. Florentina Munteanu

Prof. dr. habil. Dorina Chambre

	SECTION I Environmental Engineering and Environmental Science Environmental Protection Biodiversity Health Applied Biology
9.30-9.40 OP 1	TOTAL CONTENT OF POLYPHENOLS AND FLAVONOIDS IN LYOPHILIZED EXTRACTS OF GALIUM VERUM AND GALIUM APARINE <u>Angelica Ohindovschi</u> ¹ , Mihaela Nartea ¹ , Lucian Copolovici ² , Dana Maria Copolovici ² , Andreea Lupitu ² , Cristian Moisa ² , Flavia Bortes ² , Maria Cojocaru-Toma ¹ ¹ Department of Pharmacognosy and Pharmaceutical Botany, Nicolae Testemitanu State University of Medicine and Pharmacy, Chisinau, Republic of Moldova; ² Institute for Interdisciplinary Research, Aurel Vlaicu University of Arad, Romania
9.40-9.50 OP 2	QUANTITATIVE DETERMINATION OF CAROTENOIDS IN SPECIES OF THE GENUS HELICHRYSUM <u>Mihaela Nartea</u> ¹ , Angelica Ohindovschi ¹ , Lucian Copolovici ² , Dana Maria Copolovici ² , Andreea Lupitu ² , Cristian Moisa ² , Flavia Bortes ² , Maria Cojocaru-Toma ¹ ¹ Department of Pharmacognosy and Pharmaceutical Botany, Nicolae Testemitanu State University of Medicine and Pharmacy, Chisinau, Republic of Moldova; ² Institute for Interdisciplinary Research, Aurel Vlaicu University of Arad, Romania
9.50-10.00 OP 3	EVALUAREA POTENȚIALULUI ANTIINFLAMATOR AL UNOR COMPUȘI NATURALI BIOACTIVI ÎN INFECȚII CUTANATE CRONICE <u>Valentina-Alexandra Bădăluță</u> ¹ , Adrian Ionașcu ¹ , Mara M. Mihai ² , Lia-Mara Dițu ¹ , Eliza Oprea ¹ , Alina M. Holban ¹ , Veronica Lazăr ¹ ¹ Școala Doctorală de Biologie, Univ. din București, România, ² Univ. de Medicină și Farmacie Carol Davila, București, România
10.00-10.10 OP 4	PLANT GROWTH-PROMOTION BACTERIA (PGPB) AS SUSTAINABLE REMEDY TO IMPROVE PHOTOSYNTHESIS UNDER WATER STRESS IN TOMATO AND HEMP <u>Christian Lorenz</u> ¹ , Giulia Atzori ² , Aida Raio ² , Francesca Alderotti ² , Cecilia Brunetti ^{2,3} , Matthew Haworth ² , Valentina Lazazzara ² , Giovanni Marino ² , Felicia Menicucci ² , Valeria Palchetti ^{2,3} , Carmen Arena ^{1,4} and Mauro Centritto ² ¹ Department of Biology, University of Naples Federico II, Via Cinthia 21, 80126 Naples, Italy; ² Institute for Sustainable Plant Protection (IPSP), National Research Council of Italy (CNR), Via Madonna del Piano 10, 50019 Sesto Fiorentino, Italy; ³ Department of Agriculture, Food, Environment and Forestry (DAGRI), University of Florence, Via delle Idee 30, 50019 Sesto Fiorentino, Italy; ⁴ NBFC-National Biodiversity Future Center, 90133 Palermo, Italy
10.10-10.20 OP 5	FOLIAR APPLICATION OF COMMERCIAL WOOD DISTILLATES ON STRAWBERRY PLANTS AND THEIR EFFECT AS ROOT BIOSTIMULANTS <u>Valeria Palchetti</u> ^{1,2} , Francesca Alderotti ² , Ermes Lo Piccolo ¹ , Cassandra Detti ¹ , Sara Beltrami ¹ , Andrea Carolina Baptista Ruiz ² , Valentina Lazazzara ² , Felicia Menicucci ² , Mauro Centritto ² , Francesco Ferrini ^{1,2} , Antonella Gori ^{1,2} , Vincenzo Montesano ³ , Maddalena Grieco ³ , Cecilia Brunetti ^{1,2} ¹ Department of Agriculture, Food, Environment and Forestry (DAGRI), University of Florence, Viale delle idee 30, 50019 Sesto Fiorentino, Florence, Italy, ² Institute for Sustainable Plant Protection (IPSP), National Research Council, Via Madonna del Piano, 10, 50019 Sesto Fiorentino, Italy, ³ Institute for Sustainable Plant Protection (IPSP), National Research Council, URT of Metaponto (MT)
10.20-10.30 OP 6	STUDY OF CURCUMIN LOADED ASPASOMES USING CONVENTIONAL AND MICROFLUIDIC METHODS <u>Elena-Christen Creangă</u> ¹ , Eugen Chiriac ² , Alexia-Ioana Radu ³ , Cătălin Mărculescu ² , Raluca Stan ¹ ¹ Faculty of Chemical Engineering and Biotechnology, National University of Science and Technology Politehnica Bucharest, Str. Gheorghe POLIZU, nr. 1-7, sector 1, 011061, Bucharest, ² National Institute for

	<i>Research and Development in Microtechnologies – IMT Bucharest, 126A Erou Iancu Nicolae, 077190, Voluntari, Ilfov, Romania,³Faculty of Medical Engineering, National University of Science and Technology Politehnica Bucharest, Str. Gheorghe POLIZU, nr. 1-7, sector 1, 011061 Bucharest</i>
10.30-10.40 OP 7	STUDIUL EFECTULUI MODULATOR LA NIVEL CELULAR ȘI MOLECULAR AL CURCUMINEI ASUPRA LINIEI SK-OV-3 DE CARCINOM OVARIAN UMAN <u>Diana Antonia Costea^{1*}</u> , Camelia Mia Hotnog ² , Marinela Bostan ² , Mirela Mihailă ² , Lorelei Irina Brașoveanu ² , Veronica Lazăr ¹ ¹ <i>Școala Doctorală de Biologie, Universitatea din București, România,</i> ² <i>Centrul de Imunologie, Institutul de Virusologie „Ștefan S. Nicolau” al Academiei Române, București, România</i>
10.40-10.50 OP 8	EFFECT OF SEWAGE SLUDGE APPLICATION ON THE PHYSIOLOGICAL AND BIOCHEMICAL RESPONSES OF <i>Cichorium intybus</i> GROWN IN AMENDED SOIL <u>Cărăbaș Snejana Denisa</u> , Lucian Copolovici <i>Interdisciplinary Doctoral School, “Aurel Vlaicu” University, Romania, 2 Elena Drăgoi, Arad 310330, Romania</i>
10.50-11.00 OP 9	PROTECTED NATURAL AREAS <u>Fulviu-Olimpiu Moga</u> and Lucian Copolovici <i>Interdisciplinary Doctoral School, “Aurel Vlaicu” University, Romania, Elena Drăgoi str., no. 2 – 4, Arad 310330, Romania</i>
11.00-11.30	COFFEE BREAK
11.30-11.40 OP 10	ENVIRONMENTALLY FRIENDLY SOLUTIONS AS POTENTIAL ALTERNATIVES TO CHROMIUM-BASED ANODIZATION AND CHROMATE SEALING FOR AERONAUTIC APPLICATIONS <u>Norica Godja^{1,2,3}</u> , Florentina-Daniela Munteanu ^{1,2} ¹ <i>Faculty of Food Engineering, Tourism and Environmental Protection, “Aurel Vlaicu” University of Arad, Romania,</i> ² <i>Interdisciplinary Doctoral School, “Aurel Vlaicu” University of Arad,</i> ³ <i>Bionanotec, Surface Technology & Sensors, Austria</i>
11.40-11.50 OP 11	GRAPHENE-OXIDE PEPTIDE-CONTAINING MATERIALS FOR BIOMEDICAL APPLICATIONS <u>Andreea Gostaviceanu^{1,2}</u> , Simona Gavrilă ^{1,3} , Lucian Copolovici ^{1,3} , Dana Maria Copolovici ^{1,3} ¹ <i>Institute for Interdisciplinary Research, Aurel Vlaicu University of Arad, Elena Drăgoi St., No. 2, 310330 Arad, Romania,</i> ² <i>Biomedical Sciences Doctoral School, University of Oradea, University St., No. 1, 410087 Oradea, Romania,</i> ³ <i>Faculty of Food Engineering, Tourism and Environmental Protection, Aurel Vlaicu University of Arad, Elena Drăgoi St., No. 2, 310330 Arad, Romania</i>
11.50-12.00 OP 12	ANIMAL WASTE: SOURCES AND ENVIRONMENTAL IMPACT <u>Andreea Ailoe^{1,2}</u> , Florentina Daniela Munteanu ^{1,2} ¹ <i>Interdisciplinary Doctoral School, “Aurel Vlaicu” University of Arad, Romania;</i> ² <i>Faculty of Food Engineering, Tourism and Environmental Protection, “Aurel Vlaicu” University of Arad, Romania</i>
12.00-12.10 OP 13	ADAPTIVE RESPONSES OF <i>RAPHANUS SATIVUS</i> TO SIMULTANEOUS INCREASES IN CO₂ AND DROUGHT STRESS <u>Flavia Bortes¹</u> , Andreea Lupitu ² , Cristian Moisa ² , Dana Copolovici ² , Lucian Copolovici ^{1,2} ¹ <i>Interdisciplinary Doctoral School of “Aurel Vlaicu” University of Arad,</i> ² <i>Institute of Interdisciplinary Research, “Aurel Vlaicu” University of Arad, Romania, 2 Elena Drăgoi Street, 310330, Romania</i>
12.10-12.20 OP 14	TEXTILE WASTE MANAGEMENT: PRESENT AND FUTURE <u>Diana Mariana Frătean^{1,2}</u> , Florentina Daniela Munteanu ^{1,2} ¹ <i>Interdisciplinary Doctoral School, “Aurel Vlaicu” University of Arad, Romania,</i> ² <i>Faculty of Food Engineering, Tourism and Environmental Protection, “Aurel Vlaicu” University of Arad, Romania</i>

12.30-14.00 Lunch

Chairman: Prof. dr. habil. Oana Brînzan

Prof. dr. habil. Eugenia Tigan

Prof. dr. habil. Dana Copolovici

SECTION II
Food Technology
Food Engineering
Food Chemistry, Nutrition
Food Quality and Food Safety
Agrotourism Management
Sustainability

PRELIMINARY STUDY ON THE DEVELOPMENT OF WAFFLE CONES FORMULATED WITH POWDER FROM ROSEHIP WASTE

- 14.00-14.10 Alexandra Raluca Borşa (Bogdan), Adriana Păucean¹, Melinda Fogarasi¹, Andrei Borşa¹ and Cristina
OP 15 Anamaria Semeniac^{1*}

¹Faculty of Food Science and Technology, University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, 3-5 Calea Mănăştur, 400372 Cluj-Napoca, Romania

EVALUATION OF PHYSICAL-MECHANICAL PROPERTIES AND ANTIBACTERIAL POTENTIAL OF CHITOSAN-GELATIN EDIBLE FILMS ENHANCED WITH SALVIA OFFICINALIS SUPERCRITICAL CO₂ EXTRACT

- 14.10-14.20 Iliu Mărtiri, Leontina Grigore-Gurgu, Liliana Mihalcea, Loredana Dumitraşcu, Gabriela Răpeanu, Nicoleta
OP 16 Stănciuc

“Dunărea de Jos” University of Galati, Faculty of Food Science and Engineering, 111 Domnească Street, RO-80020, Galaţi, Romania. “Dunărea de Jos” University of Galati, Faculty of Food Science and Engineering, 111 Domnească Street, RO-80020, Galaţi, Romania

AGROTOURISM IN ROMANIA: CASE STUDY OF POPASUL IANULUI GUESTHOUSE, APUSENI MOUNTAINS

- 14.20-14.30 Alexandru Nicolăiţă, Miruna-Maura Trocan, and Gabriel Croitoru
OP 17

Faculty of Economic Sciences, “Aurel Vlaicu” University of Arad, Romania

PHYTOCHEMICAL AND PHYSICAL STABILITY OF NATURAL COLORANTS IN FUNCTIONAL CHEESECAKE DEVELOPMENT

- 14.30-14.40 Călina Ciont, Oana Lelia Pop, Dan Cristian Vodnar
OP 18
University of Agricultural Sciences and Veterinary Medicine, 400372, Calea Manastur 3-5, Cluj-Napoca, Country Romania

POSTERS PRESENTATION / PREZENTARE POSTERE

INVESTIGATING THE LINK BETWEEN PSYCHOBIOPTICS AND MENTAL HEALTH IN PUBLIC AWARENESS

- PP1 Ana-Maria Cocean¹ and Dan Cristian Vodnar^{1*}

¹Department of Food Science, University of Agricultural Sciences and Veterinary Medicine, 400372, Cluj-Napoca, Romania

MAGNESIUM INTERNALIZATION BY LACTOBACILLUS RHAMNOSUS: TOWARD NUTRIBIOTIC APPLICATIONS

- PP2 Rodica-Anita Varvara¹ and Dan Cristian Vodnar^{1*}

¹Department of Food Science, University of Agricultural Sciences and Veterinary Medicine, 400372, Cluj-Napoca, Romania

MODERN “IN VITRO” MULTIPLICATION TECHNIQUES IN SILPHIUM PERFOLIATUM L.

- PP3 Costea Marinela, Borza (Pârjol) Mariana, Radu Şumălan
The King Michael I University of Life Sciences, Timisoara, Romania

STUDIES ON THE ANTIOXIDANT POTENTIAL EXTRACTS OF SOME ASTERACEAE SPECIES

- PP4 Borza (Pârjol) Mariana, Costea Marinela, Radu Şumălan
The King Michael I University of Life Sciences, Timisoara, Romania

Saturday, May 24, 2025 /Sâmbătă 24 Mai 2025

12.00 Awards ceremony – Room 134

Tour visit of Arad city/ Mureş Meadow Nature Park field visit

The participants departure

We thank to our sponsor for the provided sponsorships for the best students' awards!



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