

The 7th International Conference

# New Trends in Sensing - Monitoring – Telediagnosis for Life Sciences

NT SMT-LS 2024



September 20- 22, 2024

Braşov, România

(on site and online participation)



Transilvania University of Brasov,  
Romania



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"Carol Davila"  
Bucharest, Romania



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Italian Liver Foundation, Trieste, Italy

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## Location

- Research and Development Institute of the Transilvania University of Brasov, Str. Institutului No 10, Brasov, Romania
- online presentations – the platform will be announced every day using the personal email of the registered people

**Time mentioned in the program** – Romanian time

## Topics of the conference

- S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine
- S2. New Trends in Nutritional Sciences and Food Control
- S3. New Trends in (Bio) Engineering Sciences Applied in Life Sciences

Friday, September 20, 2024

|  |                   |  |
|--|-------------------|--|
| 14.00-14.30  | On-site           | Registration   |
| 14.30-15.00  | On-site           | Opening ceremony   |
| PLENARY SESSION  |                   |  |
| 15.00-15.30  | PL.1<br>On-site   | <b>Biosensors based on new generations of (bio)receptors and transducers for environmental monitoring and food quality control</b><br><b>Georges ISTAMBOULIE (1,2)</b><br>1-Université de Perpignan Via Domitia, Biocapteurs-Analyse-Environnement, Perpignan, France<br>2- Laboratoire de Biodiversité et Biotechnologies Microbiennes, USR 3579 Sorbonne Universités (UPMC) Paris 6 et CNRS Observatoire Océanologique, Banyuls-sur-Mer, France  |
| <b>S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine</b>          |                   |  |
| 15.30-15.45  | O1.1.<br>Online   | <b>Enhancing Translational Research and Innovation through Biobanking: Insights from the C3B Project</b><br><b>Devis PASCUT</b><br>Liver Cancer Unit, Italian Liver Foundation NPO, Trieste, Italy   |
| 15.45-16.00  | O.1.2<br>Online   | <b>Screening of prophylactic nutraceuticals toward Parkinson's disease</b><br><b>Camilla DALLA VERDE (1,2), Claudio TIRIBELLI (1), Silvia GAZZIN (1)</b><br>1-Italian Liver Foundation, Liver Brain Unit, Trieste, Italy<br>2-Department of Life Science, University of Trieste, Trieste, Italy  |
| 16.00-16.15  | O.1.3.<br>On-site | <b>Large amounts of hydrogen cyanide released in different fire scenarios- case reports from a prospective study on the role of hydrogen cyanide in producing death</b><br><b>Daniel TABIAN (1), Gabi DROCHIOIU (2), Madalina Maria DIAC (3), Sebastian Ionut TOMA (1), Corina-Maria DOCHIT (1), Diana Bulgaru ILIESCU (3)</b><br>1- Faculty of Medicine, Transilvania University of Brasov, Brasov, Romania<br>2- Alexandru Ioan Cuza University of Iasi, Iasi, Romania<br>3- Grigore T Popa University of Medicine and Pharmacy of Iasi, Iasi, Romania |
| 16.15-16.30  | O.1.4.<br>On-site | <b>Telemedicine in palliative care. Interventions, experiences, and perceptions of patients diagnosed with cancer receiving outpatient palliative care</b><br><b>Alexandra KOVACS (1,2), Daniela MOSOIU (1,3)</b><br>1- Faculty of Medicine, Transilvania University of Brasov, Braşov, Romania<br>2 - OncoHelp Association, Timișoara, Romania<br>3 - Foundation HOSPICE Casa Speranței, Braşov, Romania  |
| 16.30-16.45  | O.1.5.<br>On-site | <b>Hepatitis viruses diagnostic platforms development</b><br><b>Lia CUCOS (1), Ana PANTAZICA (1), Eduard NEDEA (1), Laurentiu SPIRIDON (1), Szilard FEJER (2), Leontina BANICA (3), Dan OTELEA (3), Livia DINU (4), Costin-Ioan POPESCU (1)</b><br>1 -Institute of Biochemistry of the Romanian Academy, Bucharest, Romania<br>2-Pro-Vitam SRL, Sfantu Gheorghe, Romania<br>3-“Matei Bals” Institute of Infectious Diseases, Bucharest, Romania<br>4- IMT-Bucharest, Bucharest, Romania  |
| <b>POSTERS- S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine</b> |                   |  |
| 16.45-16.50  | P.1.1<br>On-site  | <b>Health effects and safety risks associated with edible insects: insights from Portugal and Romania</b>  |



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|             |  | <p><b>Raquel P. F. GUINÉ (1), Sofia G. FLORENÇA (1), Cristina A. COSTA (1), Paula M. R. CORREIA (1), Monica TARCEA (2)</b><br/>                     1- CERNAS-IPV Research Centre, Polytechnic University of Viseu, Campus Politécnico, Viseu, Portugal<br/>                     2- Department of Community Nutrition and Food Safety, George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Targu Mures, Targu Mures, Romania</p>   |
|             | <b>POSTERS- S2. New Trends in Nutritional Sciences and Food Control</b>              |  |
| 16.50-16.55 | P.2.1<br>On-site   | <p><b>Milk consumption: comparison between Portuguese and French consumers</b><br/> <b>Raquel P. F. GUINÉ, Sofia G. FLORENÇA</b><br/>                     CERNAS-IPV Research Centre, Polytechnic University of Viseu, Campus Politécnico, Viseu, Portugal</p>   |
| 16.55-17.00 | P.2.2<br>On-site   | <p><b>Polyurethane foams from Quercus Cerris bark, a possible cushioning material</b><br/> <b>Luísa CRUZ-LOPES (1), Rogério LOPES (2), Pedro AIRES (3), Bruno ESTEVES (1)</b><br/>                     1- ESTGV and CERNAS-IPV / Polytechnic University of Viseu, Portugal<br/>                     2- DURITCAST SA, Travassô, Portugal<br/>                     3- ESTGV, Polytechnic University of Viseu, Portugal</p>   |
|             | <b>POSTERS- S3. New Trends in (Bio)Engineering Sciences Applied in Life Sciences</b> |  |
| 17.00-17.05 | P.3.1<br>On-site   | <p><b>Pinus pinaster improvement by citric acid impregnation and sustainability in wood preservation</b><br/> <b>Luísa CRUZ-LOPES, Mariana SELL, Bruno ESTEVES</b><br/>                     ESTGV and CERNAS-IPV / Polytechnic University of Viseu, Viseu, Portugal</p>  |
| 17.05-17.30 | <b>Coffee break</b>  |  |
|             | <b>S2. New Trends in Nutritional Sciences and Food Control</b>                       |  |
| 17.30-17.45 | O.2.1.<br>On-site  | <p><b>Characteristics of enrichment of fresh pasta with bee drone brood flour</b><br/> <b>Paula CORREIA (1), Gisela TEIXEIRA (2), Ana SILVA (1), Raquel GUINÉ (1), António MOITINHO (3), Inês PITACAS (3), João GONÇALVES (1)</b><br/>                     1- CERNAS-IPV Research Centre, Polytechnic University of Viseu, Viseu, Portugal<br/>                     2- Agrarian High School of Polytechnic University of Viseu, Viseu, Portugal<br/>                     3- CERNAS-IPCB Research Centre, Polytechnic University of Castelo Branco, Castelo Branco, Portugal</p>  |
| 17.45-18.00 | O.2.2.<br>On-site  | <p><b>Exploring phenolic compound extraction, antioxidant activity and assessing acute and chronic toxicity of Arbutus Unedo L. (strawberry tree) for dentary applications</b><br/> <b>Ana Rita LOPES (1), Yuliya DULYANSKA (2), Ana T. P. C. GOMES (3), Nuno ROSA (3), Luísa CRUZ-LOPES (4)</b><br/>                     1- Faculty of Dental Medicine, Universidade Católica Portuguesa, Viseu, Portugal<br/>                     2- ESAV and CERNAS-IPV / Polytechnic University of Viseu, Portugal<br/>                     3- Faculty of Dental Medicine, Universidade Católica Portuguesa, Center for Interdisciplinary Research in Health, Viseu, Portugal<br/>                     4- ESTGV and CERNAS-IPV / Polytechnic University of Viseu, Portugal</p> |
| 18.00-18.15 | O.3.1.<br>On-site  | <p><b>Zeiss Celldiscoverer 7 with Airyscan module- adaptable automation for advanced workflows</b><br/> <b>Cicerone TUDOR</b><br/>                     Carl Zeiss NV, Zaventem, Belgium</p>  |

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| 18.15-<br>18.30 | O.3.2.<br>On-site | Nanotechnological study for curcumin biodisponibility enhancement monitored by<br>LC-MS-MS<br>Raul Cornel Stefan PANTIŞ<br>Altium International SRL, Romania |
| 18.30           |                   | WELCOME PARTY  |

Saturday, September 21, 2024

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| 8.30-9.00   | On-site   | Registration   |
|             | <b>PLENARY SESSION</b>  |  |
| 9.00-9.30   | PL.2<br>On-site   | <b>Translational medicine for liver cancer</b><br><b>Caecilia SUKOWATI (1,2)</b><br>1-Liver Cancer Unit, Italian Liver Foundation NPO, Italy<br>2- Eijkman Research Center for Molecular Biology, National Research and Innovation Agency of Indonesia   |
|             | <b>S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine</b> |  |
| 9.30-9.45   | O.1.6.<br>Online  | <b>Diet enzymatic influence on gastrointestinal medication metabolism</b><br><b>Sandica BUCURICA (1), Laura GAMAN (1), Mihaela BADEA (2)</b><br>1- Faculty of Medicine, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania<br>2- Faculty of Medicine, Transilvania University of Brasov, Romania   |
| 9.45-10.00  | O.1.7.<br>Online  | <b>Medical education simulation-based learning in pediatrics</b><br><b>Maria TOTAN (1,2), Ionela MANIU (3,4)</b><br>1- Lucian Blaga University of Sibiu, Faculty of Medicine, Sibiu, Romania;<br>2- Clinical Pediatric Hospital, Clinical Laboratory, Sibiu, Romania;<br>3- Lucian Blaga University of Sibiu, Faculty of Sciences, Mathematics and Informatics Department, Research Center in Informatics and Information Technology, Sibiu, Romania<br>4- Pediatric Clinical Hospital Sibiu, Research team, Sibiu, Romania  |
| 10.00-10.15 | O.1.8.<br>On-site   | <b>New trends on sensing and monitoring malnutrition at cancer patients</b><br><b>Monica TARCEA, Monica SANPALEAN, Diana NILCA, Cristian COJOCARIU</b><br>Department of Community Nutrition and Food Safety, University of Medicine, Pharmacy, Science and Technology G.E. Palade from Targu Mures, Romania  |
| 10.15-10.30 | O.1.9.<br>Online  | <b>Genetic counselling for cancer disease in the era of personal genomics</b><br><b>Eleonora MARCHINA</b><br>Department of Molecular and Translational Medicine, University of Brescia, Brescia, Italy   |
| 10.30-10.45 | O.1.10.<br>On-site  | <b>Biochemical status in a cohort of children with cystic fibrosis</b><br><b>Corina-Elena DELIA (1,2), Andreea-Mariana NEGRESCU (1), Elena IONICA (1), Iustina-Violeta STAN (2,3), Elena-Simona MOICEANU (2,4), Geanina-Mirela TOMA (2), Anisoara CIMPEAN (1)</b><br>1- Faculty of Biology, University of Bucharest, Romania<br>2- National Institute for Mother and Child Health "Alessandrescu-Rusescu" (NIMCH "Alessandrescu-Rusescu"), Romania<br>3- Faculty of Medicine, "Carol Davila" University of Medicine and Pharmacy, Romania<br>4- Faculty of Medicine "Iuliu Hațieganu" University of Medicine and Pharmacy Cluj-Napoca, Romania |
| 10.45-11.00 | O.1.11.<br>On-site  | <b>Alcohol and other psychoactive substance abuse- a retrospective study on mechanical asphyxia in a Legal Medicine Center in Romania</b><br><b>Daniel TABIAN (1,2), Davide Calin MEREU (1,2), Cristea COSTACHE (1), Florin Iustin DRAGOMIR (2), Andreea Eugenia MIRZAC (1), Sergiu Gabriel HEREA (1), Octavian JARDAN (2)</b>   |

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|             |   | 1- Faculty of Medicine, Transilvania University of Brasov, Brasov, Romania<br>2- Brasov County Legal Medicine Service, Brasov, Romania  |
|             | <b>POSTERS - S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine</b> |   |
| 11.00-11.05 | P.1.2<br>On-site  | <b>Violence against older people during the COVID-19 pandemic- a retrospective study conducted in Brasov County Legal Medicine Service</b><br><b>Octavian JARDAN</b><br>Brasov County Legal Medicine Service, Brasov, Romania   |
| 11.05-11.30 | <b>COFFEE BREAK</b>   |   |
|             | <b>S2. New Trends in Nutritional Sciences and Food Control</b>                          |   |
| 11.30-11.45 | O.2.3<br>Online   | <b>Valorisation of Vitis vinifera L. grape pomace: phenolic profile, antioxidant capacity, and inhibitory potential on glucose metabolism enzymes</b><br><b>Corinne BANI (1), Patrizia RESTANI (1), Antonella BOSSO (2), Francesca MERCOGLIANO (1), Chiara DI LORENZO (1)</b><br>1 -Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy<br>2- Council for Agricultural Research and Economics – Research Center for Viticulture and Enology, Asti, Italy   |
| 11.45-12.00 | O.2.4.<br>Online  | <b>Phenol pattern and health benefits of dealcoholized and low alcohol wines</b><br><b>Chiara DI LORENZO (1,2), Corinne BANI (1), Francesca MERCOGLIANO (1), Patrizia RESTANI (1)</b><br>1 - Dipartimento di Scienze Farmacologiche e Biomolecolari, Università degli Studi di Milano, Milan, Italy<br>2 - CRC “Innovation for well-being and environment”, Università degli Studi di Milano, Milan, Italy  |
| 12.00-12.15 | O.2.5.<br>On-site   | <b>Electrochemical biosensors for the detection of chemical food contaminants</b><br><b>Lynn MOUAWAD (1,2), Georges ISTAMBOULIE (1,2), Thierry NOGUER (1,2), Gaëlle CATANANTE (1,2)</b><br>1- Université de Perpignan Via Domitia, Biocapteurs-Analyse-Environnement, Perpignan, France<br>2- Laboratoire de Biodiversité et Biotechnologies Microbiennes, USR 3579 Sorbonne Universités (UPMC) Paris 6 et CNRS Observatoire Océanologique, Banyuls-sur-Mer, France   |
| 12.15-12.30 | O.2.6.<br>On-site   | <b>Sustainable and functional bread and crackers</b><br><b>Rita S. INÁCIO (1,2,3), Maria J. CARVALHO (1,2,4), Luís SOARES (1), S. FERRO PALMA (1,2), Manuela COSTA (1), Célia LAMPREIA (1), Miguel FLORO (1), Fernanda FRAGOSO (1), Antónia MACEDO (1,2,5)</b><br>1-Instituto Politécnico de Beja, Beja, Portugal<br>2-MED-Instituto Mediterrâneo para a Agricultura, Ambiente e Desenvolvimento, Évora, Portugal<br>3-CBQF - Centro de Biotecnologia e Química Fina, Universidade Católica Portuguesa, Escola Superior de Biotecnologia, Porto, Portugal<br>4-MARE - Marine and Environmental Science Centre, Politécnico de Leiria, Peniche, Portugal<br>5-LEAF - Linking Landscape, Environment, Agriculture and Food, Instituto Superior de Agronomia, Lisboa, Portugal |
| 12.30-12.45 | O.2.7.<br>On-site   | <b>A genetic alternative to nixtamalization for raising nutritional value of corn flour in pellagra pathogenesis prevention</b>   |

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|             |   | <p><b>Stefan DUMITRESCU (1), Codruța POPESCU (2)</b><br/>                     1-“Dr Ioan Mesota” National College, Brasov, Romania<br/>                     2-University of Bucharest, Faculty of Chemistry, Department of Inorganic, Organic, Biochemistry and Catalysis, Bucharest, Romania</p>   |
|             | <p><b>POSTERS- S2. New Trends in Nutritional Sciences and Food Control</b></p>      |   |
| 12.45-12.50 | P.2.3.<br>On-site   | <p><b>Sensory evaluation and quality parameters in the development of açai-enriched mango puree and smoothie</b><br/>                     Liliana G. FIDALGO (1,2,3), Íris RAMEIRA (4), Vitória Z. LI (4), Aline G. B. DA SILVA (5), Flávia M. O. DA SILVA (1,2), Rita S. INÁCIO (1,2,6), Fernanda FRAGOSO (1), Miguel FLORO (1), Fátima CARVALHO (1,2,7), Christian Nunes DA SILVA (8), Maria João CARVALHO (1,2,9)<br/>                     1- Department of Applied Technologies and Sciences, School of Agriculture, Polytechnic Institute of Beja, Beja, Portugal<br/>                     2- MED &amp; CHANGE, University of Évora, Évora, Portugal<br/>                     3- LAQV-REQUIMTE, Chemistry Department, University of Aveiro, Aveiro, Portugal<br/>                     4- Agrupamento de Escolas de Mértola, Mértola, Portugal<br/>                     5- Programa de Pós-Graduação em Gestão de Recursos Naturais e desenvolvimento local na Amazônia (PPGEDAM), Universidade Federal do Pará, Brazil<br/>                     6- CBQF, Portuguese Catholic University, School of Biotechnology, Porto, Portugal<br/>                     7- FiberEnTech, University of Beira Interior, Covilhã, Portugal<br/>                     8- Núcleo de Meio Ambiente da Universidade Federal do Pará, Brazil<br/>                     9- MARE- Marine and Environmental Science Centre, Polytechnic of Leiria, Peniche, Portugal</p> |
| 12.50-12.55 | P.2.4.<br>On-site   | <p><b>Hyperspectral imaging for raw ingredients characterization: wheat flour case study</b><br/>                     Flávia M. O. DA SILVA (1,2), Liliana G. FIDALGO (1,2,3), Daniela CHAPARRO (1), Maria João CARVALHO (1,2,4), Nuno S. A. PEREIRA (1)<br/>                     1- Polytechnic Institute of Beja, Beja, Portugal<br/>                     2- MED &amp; CHANGE, University of Évora, Évora, Portugal<br/>                     3- LAQV-REQUIMTE, Chemistry Department, University of Aveiro, Aveiro, Portugal<br/>                     4- MARE- Marine and Environmental Science Centre, Polytechnic Institute of Leiria, Peniche, Portugal</p>   |
| 12.55-13.00 | P.2.5.<br>Online  | <p><b>Phytochemical profile and quality control of Hippophae rhamnoides (sea buckthorn) branches and herbal formulations</b><br/>                     Oana Teodora APREUTESEI, Anuța Cristina RACLARIU-MANOLICĂ, Carmen Elena TEBRENCU<br/>                     Stejarul Research Centre for Biological Sciences, National Institute of Research and Development for Biological Sciences, Piatra Neamt, Romania</p>   |
| 13.00-14.00 | LUNCH   |   |
|             | <p><b>S3. New Trends in (Bio) Engineering Sciences Applied in Life Sciences</b></p> |   |
| 14.00-14.15 | O.3.3.<br>On-site   | <p><b>The use of nanoparticles in medicine and the assessment of risks on health and environment</b><br/>                     Iulia DUMITRESCU, Claudia CRÎNGANU, Cristina GĂLBĂU<br/>                     Faculty of Medicine, Transilvania University of Brasov, Romania</p>  |

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| 14.15-14.30  | O.3.4.<br>Online    | <b>Monitoring of interstitial fluid (ISF) biomarkers based on microneedle arrays</b><br><b>Zhanhong LI</b><br>School of Health Science and Engineering, University of Shanghai for Science and Technology, Shanghai, China   |
| 14.30-14.45  | O.3.5.<br>On-site   | <b>Simultaneous electrochemical detection of Cu (II) and Pb (II) ions using a rotating disk electrode</b><br><b>Alexandra-Virginia BOUNEGRU, Constantin APETREI</b><br>Department of Chemistry, Physics and Environment, Faculty of Sciences and Environment, "Dunărea de Jos" University of Galaţi, Galaţi, Romania   |
| 14.45-15.00  | O.3.6<br>On-site    | <b>Aptamer-modified plasmonic nanoplatfoms as biosensor for SERS detection of human matrix metalloproteinase 9</b><br><b>Alina VASILESCU (1), Roberta Maria BANCIU (1), Sorin DAVID (1), Daniel MARCONI (2), Alia COLNIŢĂ (2), Ioan TURCU (2), Monica POTARA (3), Ana-Maria CRACIUN (3), Simion ASTILEAN (3)</b><br>1- International Centre of Biodynamics, Bucharest, Romania<br>2 - National Institute of Research & Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania<br>3 - Nanobiophotonics and Laser Microspectroscopy Center, Interdisciplinary Research Institute in Bio-Nano-Sciences, Babes-Bolyai University, Cluj-Napoca, Romania |
| 15.00-15.15  | O.3.7<br>On-site    | <b>Bioactive coatings as biomaterials for metallic orthopedic implants</b><br><b>Alina VLĂDESCU (DRAGOMIR), Iulian PANA, Mihaela DINU, Anca C. PARAU, Lidia R. CONSTANTIN, Catalin VITELARU</b><br>National Institute of RD for Optoelectronics - INOE2000, Romania  |
| <b>POSTERS S3. New Trends in (Bio) Engineering Sciences Applied in Life Sciences</b> |                     |  |
| 15.15-15.20  | P.3.2.<br>On-site   | <b>Electrochemical detection and quantification of melatonin using a graphene oxide-peroxidase-based biosensor</b><br><b>Andra-Georgiana TRIFAN, Constantin APETREI</b><br>Department of Chemistry, Physics and Environment, Faculty of Sciences and Environment, "Dunărea de Jos" University of Galaţi, Galaţi, Romania   |
| 15.20-15.45  | <b>Coffee break</b> |  |
| <b>S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine</b>        |                     |  |
| 15.45-16.00  | O.1.12.<br>Online   | <b>The potential role of hypoxanthine plasma concentration as a biomarker for metabolic dysfunction-associated steatohepatitis</b><br><b>Melissa M. MILITO (1,2), Deborah BONAZZA (3,4), Claudio TIRIBELLI (1), Natalia ROSSO (1), Silvia PALMISANO (1,4,5), Pablo J. GIRAUDI (1)</b><br>1- Italian Live Foundation, Trieste, Italy<br>2- University of Trieste, Trieste, Italy<br>3- Surgical Pathology Unit, Cattinara Hospital, ASUGI, Trieste, Italy<br>4- Department of Medical, Surgical and Health Sciences, University of Trieste, Italy<br>5- Surgical Clinic UNIT, Cattinara Hospital ASUGI, Trieste, Italy  |
| 16.00-16.15  | O.1.13.<br>Online   | <b>Exposure to microplastics and its consequences on health</b><br><b>Anamaria-Iosefina TRIFU, David DEBU, Marius Alexandru MOGA, Mihaela BADEA</b><br>Faculty of Medicine, Transilvania University of Brasov, Brasov, Romania   |
| 16.15-16.30  | O.1.14.<br>On-site  | <b>Metabolic syndrome in childhood</b><br><b>Bianca Elena POPOVICI</b>   |

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|             |  | Faculty of Medicine, University Transilvania Brasov, Brasov, Romania  |
| 16.30-16.45 | O.1.15.<br>On-site   | <b>Study on the resistance patterns and phenotypes of uropathogenic Gram-negative bacteria</b><br><b>Delia NICOARĂ, Sarah DALLAGO, Mihaela IDOMIR</b><br>Faculty of Medicine, Transilvania University of Brasov, Romania  |
|             | <b>S2. New Trends in Nutritional Sciences and Food Control</b>           |   |
| 16.45-17.00 | O.2.8.<br>On-site  | <b>Chemical characterisation and neuroprotective properties of invasive knotweed extracts</b><br><b>Lea POGAČNIK DA SILVA (1), Rui FM SILVA (2), Dušan ŽIGON (3), Tina KOSJEK (3)</b><br>1- Department of Food Science and Technology, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia<br>2- iMed.Ulisboa and DBBH, Faculdade de Farmácia, Universidade de Lisboa, Portugal<br>3- Department of Environmental Sciences, Jožef Stefan Institute, Ljubljana, Slovenia  |
| 17.00-17.15 | O.2.9.<br>On-site  | <b>Response surface methodology for development plant-based non-dairy alternatives using Juglans regia L.</b><br><b>Cristina POPOVICI (1), Xin Mei TENG (2), Ravi JADEJA (2)</b><br>1- Department of Food and Nutrition, Faculty of Food Technology, Technical University of Moldova, Chisinau, Republic of Moldova<br>2- Department of Animal and Food Sciences, Robert M. Kerr Food and Agricultural Products Center, Oklahoma State University, Stillwater, OK, United States of America   |
| 17.15-17.30 | O.2.10<br>On-site  | <b>Personalized nutrition in the digital age</b><br><b>George VRAPCEA</b><br>George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureş, Târgu Mureş, Romania  |
|             | <b>POSTERS - S2. New Trends in Nutritional Sciences and Food Control</b> |   |
| 17.30-17.35 | P.2.6.<br>On-site  | <b>Development of plant-based cheese alternatives using walnuts nutritional potential</b><br><b>Cristina POPOVICI (1), Xin Mei TENG (2), Ravi JADEJA (2)</b><br>1- Department of Food and Nutrition, Faculty of Food Technology, Technical University of Moldova, Chisinau, Republic of Moldova<br>2- Department of Animal and Food Sciences, Robert M. Kerr Food and Agricultural Products Center, Oklahoma State University, Stillwater, OK, United States of America   |
| 17.35-17.40 | P.2.7.<br>On-site  | <b>Formulation of plant-based yoghurt from pecan and evaluation of physicochemical, sensory and free radical scavenging properties</b><br><b>Cristina POPOVICI (1), Prince (2,3), Gaurav KUMAR (2,4), Xin Mei TENG (5), Ravi JADEJA (5)</b><br>1- Department of Food and Nutrition, Faculty of Food Technology, Technical University of Moldova, Chisinau, Republic of Moldova<br>2- National Dairy Research Institute, Karnal, India<br>3-AMUL, Navi Mumbai, India<br>4- AMUL, Ujjain, India<br>5 -Department of Animal and Food Sciences, Robert M. Kerr Food and Agricultural Products Center, Oklahoma State University, Stillwater, OK, United States of America |
|             | <b>DINNER</b>  |   |

Sunday, September 22, 2024

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| 8.30-9.00   | On-site   | Registration  |
|             | <b>S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine</b> |   |
| 9.00-9.15   | O.1.16.<br>On-site  | <p><b>Healthcare-associated infections – a reality that can be prevented through a correct early diagnosis</b></p> <p><b>Maria-Elena COCUZ (1,2), Iuliu-Gabriel COCUZ (3,4)</b></p> <p>1- Clinical Hospital of Pneumophthysiology and Infectious Diseases, Brasov, Romania</p> <p>2- Faculty of Medicine, Transilvania University of Brasov, Romania</p> <p>3- Pathological Anatomy Clinical Service, Mures County Clinical Hospital, Targu-Mures, Romania</p> <p>4- "George Emil Palade" University of Medicine, Pharmacy, Sciences and Technology from Targu Mures, Romania</p> |
| 9.15-9.30   | O.1.17.<br>Online   | <p><b>Gonadotropins in second and third activation of the hypothalamic-pituitary-gonadal axis: statistical study</b></p> <p><b>Madalina A. VLAD (1,2), A.CIMPEAN (1,2), Corina E. DELIA (1,2), M.D. HAIDAUTU (1), N. LACATUS (1), E. DOROFTEI (3)</b></p> <p>1- NIMCH Alessandrescu-Rusescu, Pediatric Component, Bucharest, Romania</p> <p>2- Faculty of Biology, Bucharest University, Bucharest, Romania</p> <p>3- Ovidius University Constanta, The Faculty of Natural Sciences and Agricultural Sciences, Romania</p>  |
| 9.30-9.45   | O.1.18.<br>Online   | <p><b>Beyond the basics: Mastering AI prompts for health</b></p> <p><b>Marco Antonio Dias DA SILVA</b></p> <p>University of Brescia, Italy</p>  |
| 9.45-10.00  | O.1.19.<br>Online   | <p><b>The impact of health status on economic output: from general strategy to social responsibility</b></p> <p><b>Liliana ROGOZEA (1,2), Mihaela BADEA (1), Florin LEAŞU (1,2)</b></p> <p>1- Faculty of Medicine, Transilvania University of Braşov, Brasov, Romania</p> <p>2- Brasov Pneumophthysiology and Infection Disease Clinical Hospital, Brasov, Romania</p>  |
| 10.00-10.15 | O.1.20<br>On-site   | <p><b>Enhancing chronic disease management through telemonitoring</b></p> <p><b>Laura ISOP, Lorena DIMA, Andrea NECULAU</b></p> <p>Faculty of Medicine, Transilvania University of Brasov, Romania</p>  |
| 10.15-10.30 | O.1.21.<br>Online   | <p><b>Discharging complex patients from the hospital</b></p> <p><b>Diana Cristina MEHEDINT</b></p> <p>Duke University Hospital, Duke School of Medicine, Durham, North Carolina, USA</p>  |
| 10.30-10.45 | O.1.22.<br>On-site  | <p><b>Pioneering a new era in biomedical research: Exploring 3D biology solutions with Molecular Devices</b></p> <p><b>Sylvia DE BRUIN</b></p> <p>Molecular Devices, USA</p>  |
| 10.45-11.00 | COFFEE BREAK  |   |
|             | <b>S3. New Trends in (Bio) Engineering Sciences Applied in Life Sciences</b>  |   |
| 11.00-11.15 | O.3.8.<br>On-site   | <p><b>Effect of the electrical field on the specific binding between an aptamer and its target analyte: case study of a lysozyme aptasensor</b></p>   |



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|  |                 | <p><b>Roberta Maria BANCIU (1,2), Camelia BALA (2), Alina VASILESCU (1)</b><br/>                     1- International Centre of Biodynamics, Bucharest, Romania<br/>                     2- Department of Analytical and Physical Chemistry, University of Bucharest, Bucharest, Romania</p>   |
| 11.15-11.30  | O.3.9. On-site  | <p><b>Aptamers labelling with new enzyme for bioassay and biosensors: preliminary results</b><br/> <b>Andreea FTODIEV (1,2), Georgiana Necula PETRAREANU (3), Cristina PURCAREA (3), Camelia BALA (2), Alina VASILESCU (1)</b><br/>                     1- International Centre of Biodynamics, Bucharest, Romania<br/>                     2- Faculty of Chemistry, University of Bucharest, Romania<br/>                     3- Institute of Biology of the Romanian Academy, Bucharest, Romania</p>   |
| 11.30-11.45  | O.3.10 On-site  | <p><b>Dynamic SERS monitoring of dopamine's oxidative polymerization</b><br/> <b>Nicoleta Elena DINA, Ioana BREZEŞTEAN, Ioana GROSU, Claudia LAR, Claudiu FILIP</b><br/>                     National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania</p>  |
| 11.45-12.00  | O.3.11 On-site  | <p><b>SERS monitoring of the antimicrobial activity of peptide CecA on common bacteria</b><br/> <b>Nicoleta Elena DINA (1), Alia COLNIŢĂ (1), Ioana BREZEŞTEAN (1), Ioan TURCU (1), Daria STOIA (2,3), Monica FOCŞAN (2,3), Florina ZORILĂ (4), Mihaela BACALUM (4)</b><br/>                     1- National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania<br/>                     2- Biomolecular Physics Department, Faculty of Physics, Babes-Bolyai University, Cluj-Napoca, Romania<br/>                     3- Nanobiophotonics and Laser Microspectroscopy Centre, Interdisciplinary Research Institute on Bio-Nano-Sciences, Babes-Bolyai University, Cluj-Napoca, Romania<br/>                     4 - Horia Hulubei National Institute for Physics and Nuclear Engineering, Măgurele, Romania</p> |
| 12.00-12.15  | O.3.12 Online   | <p><b>Nanocellulose-based oxygen-generating systems</b><br/> <b>Cătălina-Diana UŞURELU (1,2), Adriana Nicoleta FRONE (1), Denis Mihaela PANAITESCU (1), Gabriela-Mădălina OPRICĂ (1,2), Cristian-Andi NICOLAE (1), Gabriela IONIŢĂ (3), Iuliana CARAŞ (4), Mircea TEODORESCU (2)</b><br/>                     1- National Institute for R&amp;D in Chemistry and Petrochemistry - ICECHIM, Bucharest, Romania<br/>                     2- National University of Science and Technology Politehnica Bucharest, Romania<br/>                     3- "Ilie Murgulescu" Institute of Physical Chemistry, Bucharest, Romania<br/>                     4- "Cantacuzino" Medico-Military National Research Institute, Bucharest, Romania</p>   |
| <b>S2. New Trends in Nutritional Sciences and Food Control</b> |                 |  |
| 12.15-12.30  | O.2.11. On-site | <p><b>Mycotoxins: Detection based on aptamers</b><br/> <b>Jean Louis MARTY (1,2)</b><br/>                     1-Sensbiotech, Céret, France,<br/>                     2- Université de Perpignan Via Domitia, Perpignan France</p>  |
| 12.30-12.45  | O.2.12. Online  | <p><b>Innovative approaches to combat non-compliant botanical food supplements</b><br/> <b>Ancuţa Cristina RACLARIU-MANOLICĂ (1,2), Mădălina Oana POPA (1), Mihael Cristin ICHIM (1)</b></p>   |

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|   |                    | <p>1-Stejarul Research Centre for Biological Sciences, National Institute of Research and Development for Biological Sciences, Piatra Neamt, Romania</p> <p>2-Natural History Museum, University of Oslo, Oslo, Norway</p>  |
| 12.45-13.00   | O.2.13.<br>Online  | <p><b>Utilizing cocoa (<i>Theobroma cacao</i> L.) by-products for sustainable animal feed: an evaluation of polyphenol and antioxidant content</b></p> <p><b>Francesca MERCOGLIANO (1), Corinne BANI (1), Marco TRETOLA (2,3), Luciano PINOTTI (3), Patrizia RESTANI (1,4), Chiara DI LORENZO (1)</b></p> <p>1- Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy</p> <p>2- Agroscope, Institute for Livestock Sciences, Posieux, Switzerland</p> <p>3- Department of Veterinary Medicine and Animal Sciences (DIVAS), University of Milan, Lodi, Italy</p> <p>4- Research Center (CRC) "Innovation for Well-Being and Environment", University of Milan, Milan, Italy</p>   |
| 13.00-13.15   | O.2.14.<br>On-site | <p><b>Nutritional potential of marine biomass</b></p> <p><b>Liviu GACEU (1,2,3), Romulus GRUIA (1,2,3), Oana Bianca OPREA (1)</b></p> <p>1 - Transilvania University of Brasov, Faculty of Food and Tourism, Brasov, Romania</p> <p>2 - CSCBAS&amp;CE-MONT Centr/INCE-Romanian Academy, Casa Academiei Romane, Bucharest, Romania</p> <p>3 - Academy of Romanian Scientists, Ilfov Bucharest, Romania</p>   |
| <b>S1. (Tele)diagnosis, (Tele)monitoring and (Tele)management in Medicine</b> |                    |   |
| 13.15-13.30   | O.1.23.<br>On-site | <p><b>The role of polyunsaturated fatty acids in reducing of oxidative stress, inflammation and endothelial dysfunction in acute coronary syndromes</b></p> <p><b>Alexandru COVACIU (1), Theodora BENEDEK (1), Elena BOBESCU (2,3), Luigi Geo MARCEANU (2), Marius Alexandru MOGA (2), Valentina BENZA (2,3), Madalina IVASCU (2), Horatiu RUS (2,3), Ivana JOCIC (2), Christian Gabriel STREMPPEL (4)</b></p> <p>1-"George Emil Palade" University of Medicine, Pharmacy, Sciences and Technology from Târgu Mureş, Romania</p> <p>2- Transilvania University of Brasov, Faculty of Medicine, Department of Medical and Surgical Specialties, Brasov, Romania;</p> <p>3- Clinical County Emergency Hospital Brasov, Department of Cardiology, Brasov, Romania</p> <p>4- Transilvania University of Brasov, Faculty of Economic Sciences and Business Administration, Romania</p> |
| 13.30-13.45   | O.1.24.<br>Online  | <p><b>Biochemical aspects in bronchiolitis wits RSV in the pediatric population</b></p> <p><b>Adina Cristiana RAICU (1), Elena Laura GAMAN (1,2), Adina BACIU (2), Elena Madalina PETRAN (1)</b></p> <p>1-Faculty of Medicine, "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania</p> <p>2- "Francisc I. Rainer" Anthropology Institute of the Romanian Academy, Bucharest, Romania</p>   |
| 13.45-14.00   | O.1.25.<br>Online  | <p><b>Biochemical changes in febrile seizures</b></p> <p><b>Miruna Isabela VASILESCU (1), Elena Madalina PETRAN (1), Mihaela BADEA (2), Adina BACIU (3), Elena Laura GAMAN (1, 3)</b></p> <p>1- Faculty of Medicine, "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania</p> <p>2- Faculty of Medicine, Transilvania University of Brasov, Brasov, Romania</p>   |

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|             |                         | 3- "Francisc I. Rainer" Anthropology Institute of the Romanian Academy, Bucharest, Romania  |
| 14.00-14.15 | O.1.26.<br>Online       | <b>Biochemical findings in rheumatic diseases</b><br><b>Cristina DASCALESCU (1), Cristian ILIE (1), Elena VASILICA (1), Adina BACIU (2), Elena Laura GAMAN (1,2)</b><br>1-Faculty of Medicine, "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania<br>2- "Francisc I. Rainer" Anthropology Institute of the Romanian Academy, Bucharest, Romania   |
| 14.15-14.30 | O.1.27.<br>Online       | <b>Biochemical aspects in acute voluntary intoxication with ethyl alcohol among adolescents</b><br><b>Ruxandra ZARIOIU (1), Elena Madalina PETRAN (1), Mihaela BADEA (2), Adina BACIU (3), Laura Elena GAMAN (1, 3)</b><br>1- Faculty of Medicine, "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania<br>2- Faculty of Medicine, Transilvania University of Brasov, Brasov, Romania<br>3- "Francisc I. Rainer" Anthropology Institute of the Romanian Academy, Bucharest, Romania |
| 14.30       | <b>CLOSING CEREMONY</b> |   |