

Conference Program

*21st European Conference on the Spectroscopy of
Biological Molecules (ECSBM 2026)*

Cluj-Napoca, Romania

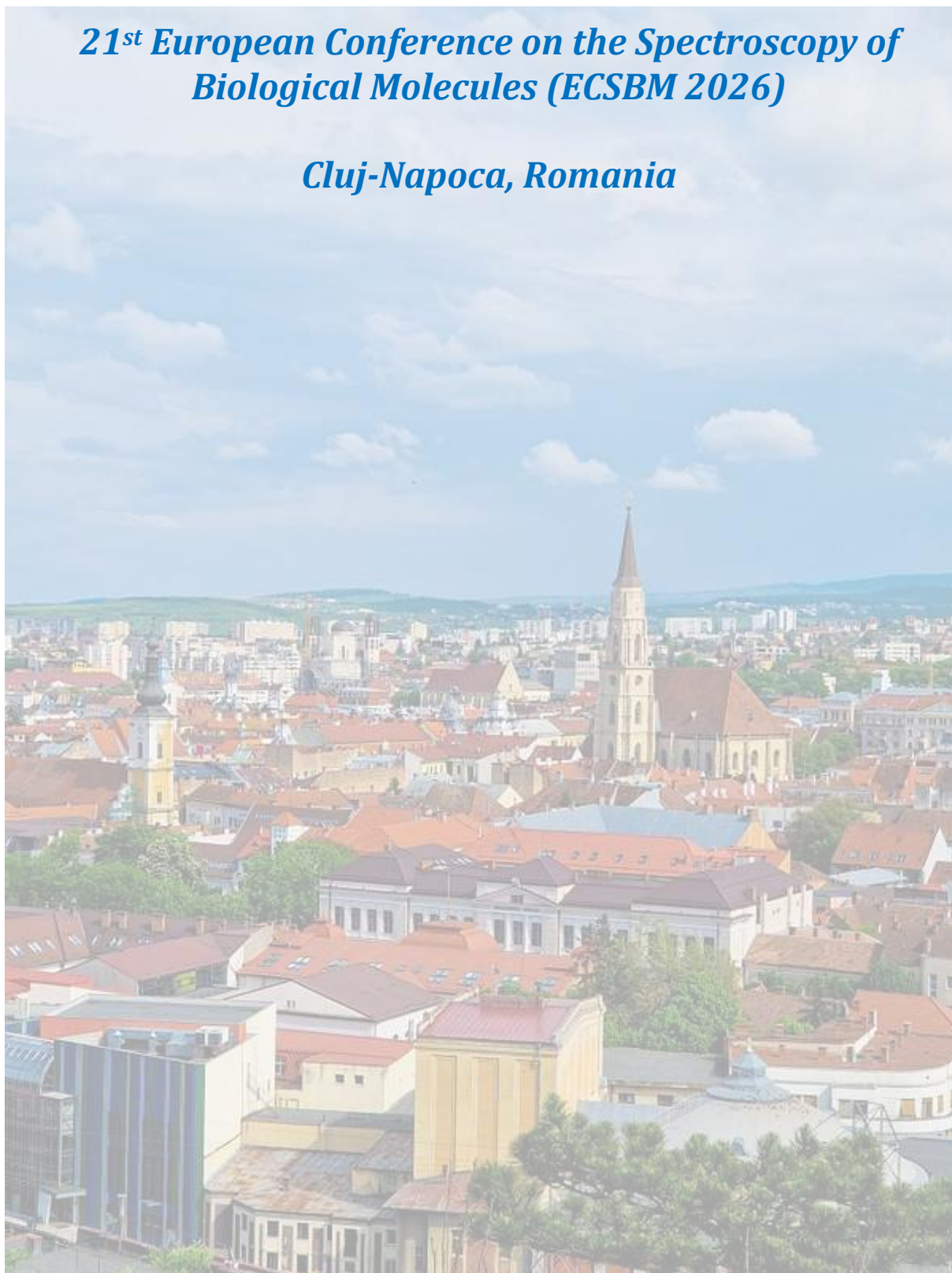




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Conference Committee

Local scientific committee



Vasile CHIȘ
Program Chair



Monica FOCȘAN
Program Co-Chair



Ștefania IANCU
Secretary

Prof. Simion Aștilean
Prof. Monica Baia
Prof. Nicolae Leopold
Prof. Simona Pînzaru

International scientific committee

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Prof. Sander Woutersen (Netherlands)
Prof. Malgorzata Baranska (Poland)
Prof. Maria Paula Marques (Portugal)
Prof. Luis Batista de Carvalho (Portugal)
Prof. Andreas Barth (Sweden)
Prof. Neil T. Hunt (UK)

Conference Venue

Faculty of Economics and Business Administration (FSEGA)

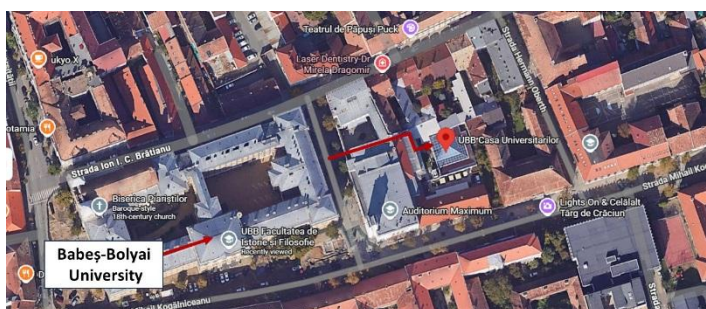
Babeş-Bolyai University (UBB)

Address: Teodor Mihali Street, No. 58-60, Cluj-Napoca



Registration & Welcome reception - Casa Universitarilor

Address: Emmanuel de Martonne Street, No. 1, Cluj-Napoca



Gala Dinner - Courtyard by Marriott Cluj-Napoca Downtown

Address: Avram Iancu Street, No. 23-25, Cluj-Napoca

Conference Agenda

August 30, 2026		
Time	Activities	Venue
17:00 – 18:00	Registration & Conference Materials Collection	Lobby outside Casa Universitarilor
18:00 – 20:00	Welcome Reception	Casa Universitarilor

August 31, 2026		
Time	Activities	Venue
8:00	Transfer from the hotel <i>Universitas</i> to the conference venue	Hotel lobby
8:45	Opening Ceremony	Aula Victor Jinga, First Floor, FSEGA
9:00 – 10:30	Plenary Session	Aula Victor Jinga, First Floor, FSEGA
10:30	Photo group	In front of FSEGA
10:30 – 11:00	Coffee Break	First Floor, FSEGA
11:00 – 12:30	Parallel Scientific Session	Hall A1 & A2, FSEGA
12:30 – 13:30	Lunch Break	Basement, FSEGA
13:30 – 15:30	Scientific Session	Hall A1, FSEGA
15:30 – 16:00	Coffee Break	Ground Floor, FSEGA
16:00 – 18:00	Poster Session	First Floor Lobby
20:00 – 20:45	Organ Concert	- Erich Turk - Evangelical Church, Bulevardul 21 Decembrie 1989, no. 1

September 1, 2026		
Time	Activities	Venue
8:15	Transfer from the hotel <i>Universitas</i> to the conference venue	Hotel lobby
9:00 – 10:30	Plenary Session	Aula Victor Jinga, First Floor, FSEGA
10:30 – 11:00	Coffee Break	First Floor, FSEGA
11:00 – 12:20	Plenary Session	Aula Victor Jinga, First Floor, FSEGA
12:30 – 13:30	Lunch Break	Basement, FSEGA
13:30	Excursion (Dinner Included)	Buses departure: in front of FSEGA

September 2, 2026		
Time	Activities	Venue
8:15	Transfer from the hotel <i>Universitas</i> to the conference venue	Hotel lobby
9:00 – 10:20	Plenary Session	Aula Victor Jinga, First Floor, FSEGA
10:30 – 11:00	Coffee Break	First Floor, FSEGA
11:00 – 12:30	Scientific Session	Hall A1, FSEGA
12:30 – 13:30	Lunch Break	Basement, FSEGA
13:30 – 15:45	Scientific Session	Hall A1, FSEGA
15:45 – 16:00	Coffee Break	First Floor, FSEGA
16:00 – 18:00	Scientific Session	Hall A1, FSEGA
20:00 – 24:00	Gala Dinner	Courtyard by Marriott

September 3, 2026		
Time	Activities	Venue
8:15	Transfer from the hotel <i>Universitas</i> to the conference venue	Hotel lobby
9:00 – 10:30	Plenary Session	Aula Victor Jinga, First Floor, FSEGA
10:30 – 11:00	Coffee Break	First Floor, FSEGA
11:00 – 12:30	Scientific Session	Hall A1, FSEGA
12:30 – 13:30	Lunch Break	Basement, FSEGA
13:30 – 14:30	Awards and Closing Ceremony	Aula Victor Jinga, First Floor, FSEGA



21st European Conference on the Spectroscopy of Biological Molecules

August 30 – September 3, 2026, Cluj-Napoca, Romania

Conference Program

August 30, 2026	
Time: 17:00 – 18:00	Registration & Conference Materials Collection Venue: Lobby outside Casa Universitarilor <i>Address: 1 Emmanuel de Martonne Street</i> <i>Location: City Center, next to Babeş-Bolyai University</i>
Time: 18:00 – 20:00	Welcome Reception Venue: Casa Universitarilor <i>Address: 1 Emmanuel de Martonne Street</i> <i>Location: City Center, next to Babeş-Bolyai University</i>

August 31, 2026	
Time: 8.45 – 9:00	Opening Ceremony, Aula Victor Jinga, First Floor, FSEGA
Time: 9:00 – 10:30	Venue: Aula Victor Jinga, First Floor, FSEGA Session Chair: Monica FOCSAN, Babeş-Bolyai University
9:00 – 9:30	<i>Plenary Lecture: Solving the Inverse Problem in Biophotonics: From Diffuse Light to Intrinsic Tissue Parameters</i> Dror Fixler , Tel-Aviv University, Israel
9:30 – 9:50	<i>Invited Lecture: Development and Application of Excited-State Infrared Probes based on DNA Binding Transition Metal Complexes</i> Susan Quinn , University College Dublin, Ireland
9:50 – 10:10	<i>Invited Lecture: Spectroscopic Imaging of Cells from Analytical and Physical Chemistry Perspectives</i> Małgorzata Barańska , Jagiellonian University, Kraków, Poland
10:10 – 10:30	<i>Invited Lecture: Engineering Nanoscale Interfaces Toward Predictive Bioanalytics</i> Sivashankar Krishnamoorthy , Luxembourg Institute of Science and Technology, Luxembourg
10:30 – 11:00	Coffee Break
Time: 11:00 – 12:30	Venue: Hall A1, FSEGA Session Chair: Dror FIXLER, Tel-Aviv University, Israel
11:00 – 11:20	<i>Invited Lecture: Mapping the Invisible: Molecular Spectroscopy of Nanoarchitectonic Biomaterials in Living Cells</i> Anna Piperno , Università degli Studi di Messina, Italy
11:20 – 11:40	<i>Invited Lecture: Breaking the Diffraction Barrier: Submicron Infrared Imaging of Protein Misfolding and Amyloid Formation with O-PTIR</i> Miriam Unger , Photothermal Spectroscopy Corporation, Germany
11:40 – 12:00	<i>Invited Lecture: SERS as a tool for studying enzyme inhibitors: example of aldehyde dehydrogenase</i> Alina Vasilescu , International Center of Biodynamics, Romania
12:00 – 12:15	<i>Surface-Enhanced Raman Spectroscopy of Equine Peritoneal Fluid: Protocol Optimisation Towards Rapid Colic Diagnosis</i>

	Oana Biro , Babeş-Bolyai University, Romania
12:15 – 12:30	<i>Assessment of the Diagnostic Potential of FTIR Spectroscopy on Urine in Two Clinical Contexts: Urothelial Bladder Cancer and Renal Transplant</i> Olivier Piot , University of Reims, France
Time: 11:00 – 12:30	Venue: Hall A2, FSEGA Session Chair: Simion AȘTILEAN, Babeş-Bolyai University
11:00 – 11:15	<i>Insights into Solute-Solvent Interactions of Naringin through Solvatochromic and Quantum-Chemical Approaches</i> Dan-Gheorghe Dimitriu , Alexandru Ioan Cuza University, Romania
11:15 – 11:30	<i>Synchronized Quartz Crystal Microbalance with Dissipation Module / SERS Platform for Real-Time Analysis of DNA Hybridization</i> Vlad Cucuiet , Babeş-Bolyai University, Romania
11:30 – 11:45	<i>Shining the Beam on Archaeological Artifacts</i> Maria Paula Marques , University of Coimbra, Portugal
11:45 – 12:00	<i>Ultrafast Photoactivation Dynamics of Phytochrome Proteins Under Blue-Light Excitation</i> Roosa Vanhatalo , University of Jyväskylä, Finland
12:00 – 12:15	<i>A Time-Resolved Fluorescence and IR Study of a Bacterial Red-Light Photosensor</i> Janne Ihalainen , University of Jyväskylä, Finland
12:15 – 12:30	<i>From phenotyping to Metabolic Reprogramming: A Spectralomic Study of Transformed Hairy Roots</i> Syeda Takmeel Zahra , Jagiellonian University, Poland
12:30 – 13:30	Lunch Break

Time: 13:30 – 15:30	Venue: Hall A1 Session Chair: Anna PIPERNO, Università degli Studi di Messina, Italy
13:30 – 13:50	Invited Lecture: <i>Surface-enhanced Raman spectroscopy (SERS) sensing in complex biomatrices - drug monitoring and biomarker detection</i> Dana Cialla-May , Leibniz Institute of Photonic Technology, Germany
13:50 – 14:10	Invited Lecture: <i>Next Generation of Non-Plasmonic and Hybrid Plasmonic/Non-Plasmonic Materials for SERS</i> Marek Procházka , Charles University, Prague, Czech Republic
14:10 – 14:30	Invited Lecture: <i>Exploring the Circulating Nanoworld by Raman Spectroscopy</i> Carlo Morasso , Istituti Clinici Scientifici Maugeri IRCCS, Pavia, Italy
14:30 – 14:45	<i>Toxicological phenotyping of Novel Synthetic Drugs using Raman Spectroscopy in Hepg2</i> Marta Lafarga , Universitat de Valencia, Spain
14:45 – 15:00	<i>Spectroscopic insights into the morpho-chemical evolution of stem cells: from 2D cultures to 3D neuronal spheres</i> Karolina Augustyniak , Jagiellonian University, Poland
15:00 – 15:15	<i>Vibrational Spectroscopy for Assessing Blood-Brain Barrier functionality in Hypoxia</i> Aleksandra Pragnaça , Jagiellonian University, Poland
15:15 – 15:30	Online - Monitoring the Temporal Evolution of Virus-Induced Cellular Changes Using Raman Microspectroscopy Swati Kashikar , Technological University Dublin, Ireland
15:30 – 16:00	Coffee Break
Time: 16:00 – 18:00	Venue: First Floor Lobby POSTER SESSION
Time: 20:00 – 20:45	Organ Concert - Erich Turk - Evangelical Church, Bulevardul 21 Decembrie 1989, no. 1

September 1, 2026	
Time: 9:00 – 10:30	Venue: Aula Victor Jinga, First Floor, FSEGA Session Chair: Dana Cialla-May, Institute of Photonic Technology, Germany
9:00 – 9:30	<i>Plenary Lecture: Engineered Protein–Nanomaterial Hybrids for Biosensing and Theranostic Platforms</i> Aitziber Cortajarena , CIC biomaGUNE, Donostia-San Sebastián, Spain
9:30 – 10:00	<i>Plenary Lecture: Multiplexed biosensing using plasmonic nanoparticles</i> Wolfgang Fritzsche , Leibniz Institute of Photonic Technology, Jena, Germany
10:00 – 10:30	<i>Plenary Lecture: Raman spectroscopy techniques for intra-operative diagnosis in cancer surgery</i> Ioan Notingher , University of Nottingham, UK
10:30 – 11:00	Coffee Break
Time: 11:00 – 12:20	Venue: Aula Victor Jinga, First Floor, FSEGA Session Chair: Aitziber Cortajarena, CIC biomaGUNE, Donostia-San Sebastián, Spain
11:00 – 11:30	<i>Plenary Lecture: Monitoring cellular processes in vitro, using vibrational spectroscopy</i> Hugh J. Byrne , Technological University Dublin, Ireland
11:30 – 11:50	<i>Invited Lecture: Molecular Fingerprints of Psychiatric Disorders: Infrared and Raman Spectroscopy as Holistic Biomarkers</i> Gulce Ogruc Ildiz , Istanbul Kültür University (IKU), Turkey; Chemistry Research Center of the University of Coimbra, Portugal
11:50 – 12:20	<i>Plenary Lecture: From Spectra to Usable Biochemical Information: Data Fusion and Data Augmentation Strategies for More Explainable Machine Learning</i> David Perez-Guaita , University of Valencia, Spain
12:30 – 13:30	Lunch Break
13:30 – 22:00	Excursion (dinner included)

September 2, 2026	
Time: 9:00 – 10:20	Venue: Aula Victor Jinga, First Floor, FSEGA Session Chair: Rui Fausto, University of Coimbra, Portugal; IKU-SPECTRA Istanbul Kültür University, Turkey
9:00 – 9:30	<i>Plenary Lecture: Accurate prediction of vibrational spectra: facing the problem of dimensionality and flexibility in biomolecules</i> Julien Bloino , Scuola Normale Superiore, Pisa, Italy
9:30 – 9:45	<i>Natural and Artificial Orange Carotenoid Protein: Spectroscopic Studies and Modeling</i> Elizaveta Grishaeva , Sorbonne University, France
9:45 – 10:00	<i>Resonant inelastic X-ray scattering: Performance of linear response TDDFT and application to OPV materials</i> Iulia Emilia Brumboiu , Nicolaus Copernicus University in Torun, Poland
10:00 – 10:20	<i>Invited Lecture: The Effect of Site-Specific ¹³C-Labeling on the Infrared Spectrum of Beta-Sheets</i> Andreas Barth , Stockholm University, Sweden
10:30 – 11:00	Coffee Break
Time: 11:00 – 12:30	Venue: Hall A1 Session Chair: Wolfgang Fritzsche, Leibniz Institute of Photonic Technology, Jena, Germany
11:00 – 11:20	<i>Invited Lecture: Observation of DNA Strand Interaction by SERS</i> Marc Lamy de la Chapelle , Université du Mans, Le Mans, France
11:20 – 11:40	<i>Invited Lecture: Engineering Plasmonic Metasurfaces for Enhanced Molecular Sensing</i> Nordin Félidj , Université Paris Cité, ITODYS, CNRS, Paris, France
11:40 – 12:00	<i>Invited Lecture: Spectroscopic Liquid Biopsy: From Cutting-Edge Science to Future Clinical Practice</i> Rareş Ştiufiuc , Iuliu Haţieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania
12:00 – 12:15	<i>From AI-Driven Plasmonic Optimization to Particulate Analyte Detection using Colloidal-Templated SERS Substrates</i> Cosmin Farcău , National Institute for Research and Development of Isotopic and Molecular Technologies, Romania

12:15 – 12:30	<i>Hybrid Nb₂O₅/Ag and Nb₂O₅/Au Platforms for Surface-Enhanced Raman Scattering (SERS): Sensitivity and Recyclability</i> Eva Kočíšová, Charles University, Institute of Physics, Czech Republic
12:30 – 13:30	Lunch Break
Time: 13:30 – 15:45	Venue: Hall A1 Session Chair: Ioan Notingher, University of Nottingham, UK
13:30 – 13:50	Invited Lecture: <i>Raman Microscopy of Crystalline Inclusions in Microalgae</i> Peter Mojzeš, Charles University, Prague, Czech Republic
13:50 – 14:10	Invited Lecture: <i>Multi-Analytical Approaches Coupled to Advanced Data Processing Tools for Spices and Herbs Authentication</i> Dana Alina Magdaş, National Institute for Research and Development of Isotopic and Molecular Technologies, Romania
14:10 – 14:25	<i>Reduction of Acquisition Time in Fourier Transform Infrared Spectral Imaging by Deep Learning</i> Seydou Kane, Université de Reims Champagne-Ardenne, France
14:25 – 14:40	<i>Overcoming Limited Calibration Data for Milk Fatty Acid Prediction Using Transfer Learning</i> Uladzislau Blazhko, Norwegian University of Life Sciences, Norway
14:40 – 14:55	<i>Characterising Diabetes-Associated Alterations in Human Skeletal Muscle with FTIR and Machine Learning</i> Mohamed Abdelmonaem, National Institute of Chemistry, Slovenia
14:55 – 15:10	<i>Dataset Scale vs. Domain Knowledge in Deep Learning for Spectroscopy</i> Eirik Almklov Magnussen, Norwegian University of Life Sciences, Norway
15:10 – 15:25	<i>Approaches to Data mining Reaction Kinetics Using Raman Spectroscopic Data of Claisen-Schmidt Condensation</i> Muhammad Kashif, Technological University Dublin, Ireland
15:25 – 15:45	Invited Lecture: <i>Mass spectrometry - a powerful analytical tool in omics' technology, applied in biological sciences</i> Carmen Socaciu, University of Agricultural Sciences and Veterinary Medicine (USAMV) Cluj-Napoca, Romania
15:45 – 16:00	Coffee Break

Time: 16:00 – 18:00	Venue: Hall A1 Session Chair: Marc Lamy de la Chapelle, Université du Mans, Le Mans, France
16:00 – 16:15	<i>Thermoplasmonic Sensing on Calligraphy-Patterned Paper: A Gold Nanoparticle Study with Complementary LSPR and SERS Readouts</i> Daria Stoia , Babeş-Bolyai University, Romania
16:15 – 16:30	<i>Infrared imaging for characterizing tumoral invasive front of breast cancer samples from normal weight and obese patients</i> Cymoril Combescot , Université de Reims Champagne-Ardenne, France
16:30 – 16:45	<i>Dynamics of nanoparticle internalization in human cells studied by Raman microscopy</i> Faustyna Pachacz , Jagiellonian University, Faculty of Chemistry, Poland
16:45 – 17:00	<i>Feasibility of Diffuse Raman Spectroscopy to Detect in Vivo Molecular Changes in the Tissue Induced by Subcutaneous Implants</i> Nga Tsing Kayto Tang , University of Nottingham, UK
17:00 – 17:15	<i>Multimodal Optical Diagnosis of Head and Neck Cancer: Integrating Steady-State and Time-Resolved Fluorescence Spectroscopy</i> Tatiana Tozar , National Institute for Laser, Plasma and Radiation Physics, Romania
17:15 – 17:30	<i>Machine Learning-Assisted Infrared Spectral Histopathology for the Diagnosis of Dermatomyositis</i> Hayat El Tahech , University of Reims Champagne-Ardenne, France
17:30 – 17:45	<i>Spectroscopic Profiling of Cyst Fluid and Matched Serum Identifies Patients at Higher Risk of Pancreatic Cancer</i> Outmane Bouzerda , Université de Reims Champagne Ardenne, France
17:45 – 18:00	<i>Autofluorescence-Raman Spectroscopy for Ex Vivo Investigation of Colorectal Liver Metastases</i> Radu Boitor , University of Nottingham, UK
20:00 – 24:00	Gala Dinner <i>(Courtyard by Marriott, Cluj-Napoca Downtown)</i>

September 3, 2026	
Time: 9:00 – 10:30	Venue: Aula Victor Jinga, First Floor, FSEGA Session Chair: Andreas Barth, Stockholm University, Sweden
9:00 – 9:30	<i>Plenary Lecture: Tunnelling-Driven Chemistry: From Conformational Changes to Optically-Controlled Tunnelling-Based Molecular Switches</i> Rui Fausto , University of Coimbra, Portugal; IKU-SPECTRA Istanbul Kültür University, Turkey
9:30 – 09:45	<i>Investigation of DNA Hybridization Mechanisms via SERS and Application to miRNA Biosensing</i> Ismael Mahboub , Babeş-Bolyai University, Romania
9:45 – 10:00	<i>Charging and Discharging Colloidal Silver Nanoparticles</i> Nicolae Leopold , Babeş-Bolyai University, Romania
10:00 – 10:15	<i>Don't Blame SERS for Lack of Reproducibility, Blame Sample: Environmental Nanoplastics</i> Simona Cîntă Pînzaru , Babeş-Bolyai University, Romania
10:15 – 10:30	<i>Optimization of A 6 MV LINAC Cellular Irradiation Setup Using a Custom Plexiglass Phantom and MTT Viability Analysis</i> Elena Cristina Gheară , The Oncology Institute, Romania
10:30 – 11:00	Coffee Break
Time: 11:00 – 12:30	Venue: Hall A1 Session Chair: Nicolae Leopold, Babeş-Bolyai University, Romania
11:00 – 11:15	<i>Laser-Excited Temperature-Jump IR Spectroscopy to Unravel the Dynamics of Disease-Related Fibril Formation</i> Karin Hauser , Department of Chemistry, University of Konstanz, Germany
11:15 – 11:30	<i>Mapping Vibrational Energy Transfer in Proteins</i> Yunxia Shen , Johann Wolfgang Goethe-University Institute of Biophysics, Germany
11:30 – 11:45	<i>Investigating protection mechanisms of LPMOs against oxidative inactivation - The role of Tyr/Trp chains,</i> Frank Hendrik Pilz , University of Bonn, Germany

11:45 – 12:00	<i>Interaction Dynamics of Membrane Proteins by QCL-Based IR Spectroscopy</i> Paul Stritt , University of Konstanz, Germany
12:00 – 12:15	<i>Investigating the Membrane Insertion of the Antimicrobial Peptide Gramicidin S via Time-Resolved Temperature-Jump IR Spectroscopy</i> Manuel Oestinger , University of Konstanz, Germany
12:15 – 12:30	<i>Temperature-Jump Dual-Comb Spectroscopy for Time-Resolved Studies of Peptide Folding</i> Lorenz Mattes , University of Konstanz, Germany
12:30 – 13:30	Lunch Break
13:30 – 14:30	Awards and Closing Ceremony (Aula Victor Jinga, First Floor)

Poster Session

Poster Session	
Time: 16.00 - 18.00, August 31 Venue: First Floor Lobby, FSEGA	
No.	Presentation
P 1	<i>Biomimetic Approach in Sperm Selection Based on Surface - Functionalized Micropatterned Polymeric Platforms</i> Bianca-Astrid Andone , Babeş-Bolyai University, Romania
P 2	<i>Comparative Study of Alginate-Gelatin Biomaterials Crosslinked with Ca²⁺ and Sr²⁺</i> Emma Bobu , Babeş-Bolyai University, Romania
P 3	<i>PCA/DeepCocrystal Predictor for Cocrystallization</i> Bahadır Bozkurt , Istanbul Kultur University, Turkey
P 4	<i>Molecular Classification of Gliomas using SERS DNA Spectral Data</i> Teodor-George Călina , Babeş-Bolyai University, Romania
P 5	<i>Nanostructured SERS Platforms Fabricated by Colloidal Lithography for Trace Detection of Emerging Pollutants</i> Ioana Cărdan , Babeş-Bolyai University, Romania
P 6	<i>Tunable Nanoelectrodes: Controlling Surface Charge in SERS Nanoparticles</i> Alexandra-Maria Chiriac , Babeş-Bolyai University, Romania
P 7	<i>Substituent Effects on the Photophysical Properties of Neutral and Anionic Seminaphthofluorones: A Computational Study</i> Vasile Chiş , Babeş-Bolyai University, Romania
P 8	<i>Time-Dependent SERS and DLS of AgNPs Aggregation in Natural Hypersaline Water and its Multisalt Model</i> Anamaria Couti , Babeş-Bolyai University, Romania
P 9	<i>Exploratory SERS-Based Profiling of Pleural Fluid - A Pilot Study</i> Ramona-Gabriela Cozan , Babeş-Bolyai University, Romania
P 10	<i>Integrated Plasmonic Paper-Based SERS Biosensors for Wearable Sweat Biomarker Monitoring</i> Matei Crăciunescu , Babeş-Bolyai University, Romania

P 11	<i>Structure, Electronic Properties, and Spectroscopy of 2-Nitroimidazole Radiopharmaceuticals: A Computational Perspective</i> George Crişan , Babeş-Bolyai University, Romania
P 12	<i>Excited State Electric Dipole Moment of Citric Acid Molecule Estimated from Solvatochromic Data</i> Dan-Gheorghe Dimitriu , Alexandru Ioan Cuza University, Romania
P 13	<i>Morphology-Induced Plasmonic Chirality in Gold Nanoflowers for Enantioselective Sensing</i> Andrei Dincă , Babeş-Bolyai University, Romania
P 14	<i>Structural and Vibrational Characterization of a New Prothionamide-Urea Dual Crystalline System</i> Merve Durmus , Istanbul Kultur University, Turkey
P 15	<i>Spectroscopic Insights Into Cancer Stem Cell - Associated Signatures in Hepatocellular Carcinoma</i> Burcu Gencay , Izmir Institute of Technology, Turkey
P 16	<i>Optical Extinction and Light Scattering in Plasmonic Ag and Au Nanoparticle Suspensions for Raman-Based Applications</i> Ştefania Iancu , Babeş-Bolyai University, Romania
P 17	<i>Influence of Surfactants and Surface Potential on SERS Activation of Silver Nanoparticles</i> Miruna Alexandra Ibrian , Babeş-Bolyai University, Romania
P 18	<i>Crystal Structure, Spectroscopic Characterization and Computational Analysis of an Isoniazid-Citric Acid Salt</i> Neris Inci Inan , Istanbul Kultur University, Turkey
P 19	<i>Structure of Aβ42 Oligomers Studied with Isotope-Edited FTIR</i> Oleksandra Kurysheva , Stockholm University, Sweden
P 20	<i>Laser-excited Temperature-jump IR Spectroscopy Reveals Lipid-driven Conformational dynamics in Membrane Proteins</i> Christian Langlouis , University of Konstanz, Germany
P 21	<i>Insights From Raman Spectroscopy About Environmentally Aged Micro and Nanoplastic; Challenges in Detection, Identification and Quantification</i> Karlo Maškarić , Babeş-Bolyai University, Romania
P 22	<i>Time-Resolved FTIR-Spectroscopy to Monitor Dynamics of Photo-Switchable Biomimetic Membranes</i> Selina Mertens , University of Konstanz, Germany
P 23	<i>Confocal Raman Microscopy for Localized Tracking of Developmental Biochemistry in Sea Urchin Larvae</i> Fran Nekvapil , Babeş-Bolyai University, Romania
P 24	<i>Gold-Based Plasmonic Nanostructures for SERS Detection in Complex Biological Matrices</i> Dragoş-Ioan Olariu , Regional Institute of Oncology Iasi, Romania

P 25	<i>Structural and Physicochemical Comparative Analysis of Starch Extracts from Autochthonous and International Potato Cultivars</i> Tudor Pop , Babeş-Bolyai University, Romania
P 26	<i>Raman Spectroscopic Evidence of Convergent Pigmentation in Marine Shells and Avian Feathers</i> Iuliana-Cornelia Sandu-Poplacean , Babeş-Bolyai University, Romania
P 27	<i>Label-Free SERS for Blood Serum Profiling using Gold Nanoparticles with Different Capping Molecules</i> Renata Septila , Regional Institute of Oncology Iasi, Romania
P 28	<i>Photochemically Modified Microplastics Probed by FTIR Spectroscopy: Implications for Biomolecular and Bacterial Interactions</i> Adriana Smarandache , National Institute for Laser Plasma and Radiation Physics, Romania
P 29	<i>Unveiling the Hidden Structure of Lawsone Derivatives by Solid-State NMR Spectroscopy</i> Raul-Mircea-Andrei Stan , Babeş-Bolyai University, Romania
P 30	<i>Achieving Chemical Accuracy for the First Two Singlet Excited States of Molecular Oxygen</i> Ştefan Stan , Babeş-Bolyai University, Romania
P 31	<i>Predicting Stokes Shifts of Chromophore-Solvent Pairs using Machine-Learning</i> Stefania-Renata Stepanov , Babeş-Bolyai University, Romania
P 32	<i>Computational Assessment of Proton Beam-Induced Dna Damage in Human Fibroblasts Using GEANT4-DNA</i> Tatiana Tozar , National Institute for Laser, Plasma and Radiation Physics, Romania
P 33	<i>Tree-Based Machine Learning Model for Fluorescence Lifetime Prediction in Organic Compounds</i> Dragoş-Cătălin Vovea , Babeş-Bolyai University, Romania
P 34	<i>Vibrational Spectroscopy as a Rapid Screening Tool for Genetic Transformation in Plants: A Practical Approach for Biotechnologists</i> Syeda Takmeel Zahra , Jagiellonian University, Poland
P 35	<i>Metabolite Panel Identification in Urinary Metabolomics via Random Forest for Breast Cancer Detection</i> Markus Zetes , Babeş-Bolyai University, Romania
P 36	<i>Microscopic Examination of Squamous Cell Skin Carcinoma Using Autofluorescence-Raman Imaging</i> Joe Whitmore , University of Nottingham, UK



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Memo