

DAY 1 | 21ST OCT, 2026| Wednesday

10:00-14:00		Registration
14:00-14:30		Conference opening Award of the Medal of Jaroslav Janak
Session 1 <i>Chair: Katarína Maráková</i>		
14:30-15:10	WP1	Cell-Type-Specific Response to Alpha-Synuclein Overexpression Reveal Divergent Post-Translational Mechanism Relevant to Parkinson's Disease <u>Dominika Fričová</u> <i>Comenius University Faculty of Medicine, Bratislava, Slovakia</i>
15:10-15:50	WP2	Beyond the Expert: Translating Capillary Electrophoresis innovation into robust, patient-centric pharmaceutical Quality Control <u>Cari Sängner - van de Griend</u> <i>Kantisto BV, Netherlands</i>
15:50-16:10		Coffee Break
Session 2 <i>Chair: František Foret</i>		
16:10-16:40	WK1	Characterization of Advanced Drug Delivery System Using Multimodal Liquid Chromatography <u>Kevin Schug</u> <i>University of Texas at Arlington, TX, USA</i>
16:40-17:10	WK2	Matrix Effects in LC-MS: Why the Evaluation Strategy Matters? <u>Lucie Nováková</u> <i>Charles University, Faculty Of Pharmacy in Hradec Králové</i>
17:10-17:30	WO1	LC-MS method development from the perspective of TDM-focused laboratory <u>Martin Kertys</u> <i>Comenius University Bratislava, Jessenius Faculty of Medicine in Martin, Martin, Slovakia</i>
17:30-17:50	WO2	Singlet Oxygen as a Reactive Footprinting Probe in Structural Mass Spectrometry <u>Michael Volný</u> <i>University of Chemistry and Technology, Department of Analytical Chemistry, Prague, Czechia</i>

17:50-18:00	Sponsor talk	Hermes LabSystems – Sponsor talk <u>Ján Hrouzek</u> <i>Hermes LabSystems s.r.o, Bratislava, Slovakia</i>
18:00-20:00	Welcome reception Poster session	

DAY 2 | 22ND OCT, 2026| Thursday

8:00-8:30	Registration
-----------	---------------------

Session 3

Chair: Cari Sängér - van de Griend

08:30-09:00	ThK1	Capillary Gel Electrophoresis: Past, Present and Future <u>András Guttman</u> <i>University of Debrecen, Faculty of Medicine, Horváth Csaba Memorial Laboratory of Bioseparation Sciences, Center for Translational Medicine, Hungary</i>
09:00-09:30	ThK2	Enabling Low-Input Proteomics Using Orthogonal Nanoflow Liquid Phase Separation Techniques Coupled to Mass Spectrometry <u>Michal Greguš</u> <i>Northeastern University, Barnett Institute of Chemical and Biological Analysis, Department of Chemistry and Chemical Biology, Boston, MA, USA</i>
09:30-09:50	ThO1	Smart Samplers for LC–MS: Advancing Protein Bioanalysis <u>Trine Grønhaug Halvorsen</u> <i>University of Oslo, Department of Pharmacy, Oslo, Norway</i>
09:50-10:10	ThO2	Phytochemical and Biological Potential of Selected <i>Astragalus</i> Species in the Context of Modern Cosmetic and Pharmaceutical Applications <u>Alina Plenis</u> <i>Medical University of Gdansk, Department of Analytical Chemistry, Gdańsk, Poland</i>
10:10-10:30	ThO3	Automated Long-Term Monitoring for Permeation and Toxicology Studies <u>Hana Sklenářová</u> <i>Charles University, Faculty of Pharmacy in Hradec Králové, Czech Republic</i>
10:30-10:50	Coffee Break	

Session 4

Chair: Jana Havlíková

10:50-11:20	ThK3	Towards Precision Medicine through Minimally Invasive Bioanalysis <u>Tomasz Bączek</u> <i>Medical University of Gdańsk, Department of Pharmaceutical Chemistry, Gdańsk, Poland</i>
-------------	------	---

11:20-11:40	ThO4	Deep-UV Laser Ablation as a Versatile Tool for Ambient Mass Spectrometry <u>Filip Gregar</u> <i>Palacký University, Faculty of Science, Department of Analytical Chemistry, Olomouc, Czech Republic</i>
-------------	------	--

11:40-12:00	ThO5	Hi-Fidelity N-Glycan Profiling by Capillary Electrophoresis <u>Gabor Jarvas</u> <i>University of Pannonia, Veszprém, Hungary</i>
-------------	------	---

12:00-12:20	ThO6	Enhanced Capillary Electrophoretic Analysis of Tryptophan Pathway Metabolites through Optimized Sample Preparation and Fluorescence Detection <u>Ilona Olędzka</u> <i>Medical University of Gdańsk, Department of Pharmaceutical Chemistry, Gdańsk, Poland</i>
-------------	------	---

12:20-12:30	Sponsor talk	Supercritical Fluids in Bioanalysis: From Online Extraction to Chiral SFC–MS/MS on a Single Platform <u>Richard Hodoši</u> <i>Shimadzu Slovakia, Bratislava, Slovakia</i>
-------------	--------------	--

12:30-13:30

Lunch

Session 5

Chair: Kevin Schug

13:30-13:45	YS1	Size-Exclusion Chromatography as a Tool for Simultaneous Isolation and Protein Corona Modulation of Extracellular Vesicles <u>Ondrej Moravek</u> <i>University of Pardubice, Pardubice, Czechia</i>
-------------	-----	--

13:45-14:00	YS2	LA-ICP-MS: An Effective Tool for Studying Metal Distribution in Cells <u>Laura Tesárová</u> <i>Comenius University Bratislava, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Bratislava, Slovakia</i>
14:00-14:15	YS3	Comorbidity-Associated N-Glycome Profile Shifts: A Preliminary Study Evaluating COPD and Diabetes in Lung Cancer Patients <u>Beatrix Kiss</u> <i>University of Pannonia, Research Institute of Biomolecular and Chemical Engineering, Veszprém, Hungary</i>
14:15-14:30	YS4	The Potential of Saliva as a Sample Matrix for Therapeutic Drug Monitoring <u>Nela Žideková</u> <i>Comenius University Bratislava, Jessenius Faculty of Medicine in Martin, Martin, Slovakia</i>
14:30-14:45	YS5	Comparative N-Glycan Profiling of Urinary and Recombinant Human Chorionic Gonadotropin by CZE-LEDIF and HILIC-HRMS <u>Chi-Phong LY</u> <i>University of Paris-Saclay, Institut Galien Paris-Saclay, France</i>
14:45-15:00	YS6	Development of CE-LIF Approaches for Sugar and Oligosaccharide Profiling in Food and Biological Samples <u>Joanna Bulesowska</u> <i>Medical University of Gdańsk, Department of Pharmaceutical Chemistry, Gdańsk, Poland</i>
15:00-15:20	Coffee break	
Session 6 Chair: Vladimír Havlíček		
15:20-15:35	YS7	Charting the Brain Endocannabinoid Landscape by UHPLC–ESI–MS/MS <u>Giulia Bottai</u> <i>University of Modena and Reggio Emilia, Department of Life Sciences, Modena, Italy</i>
15:35-15:50	YS8	Flexible Multi-Criteria Gradient Scoring for Targeted LC–MS/MS Method Optimization <u>Michal Kašpar</u> <i>University of Pardubice, Czech Republic</i>

15:50-16:05	YS9	Rapid Voltammetric Analysis of Pharmaceutical Samples <u>Marek Vaško</u> <i>Comenius University Bratislava, Faculty of Sciences, Department of Analytical Chemistry, Bratislava, Slovakia</i>
16:05-16:20	YS10	Urinary PSA N-Glycan Profiling with Capillary Electrophoresis for Prostate Cancer Detection <u>Ákos Szegedi</u> <i>University of Debrecen, Faculty of Medicine, Horváth Csaba Memorial Laboratory of Bioseparation Sciences, Research Center for Translational Medicine, Debrecen, Hungary</i>
16:20-16:35	YS11	Sensor-Integrated Body-on-a-Chip Platform Technology for Modern, Animal-Free Toxicology <u>Mateo Vasconez Martinez</u> <i>Technical University of Vienna, Cell Chip Group, Vienna, Austria</i>
19:00-22:00	Dinner DOCK7 <i>(Pribinova 32, 821 09 Bratislava)</i>	

DAY 3 | 23RD OCT, 2026 | Friday

Session 7

Chair: Michal Greguš

09:00-09:30	FK1	High-Resolution Mass Spectrometry for Identifying Novel Bioactive Pollutants in Water <u>Andrea Vojs-Staňová</u> <i>Comenius University Bratislava, Faculty of Natural Sciences, Department of Analytical Chemistry, Bratislava, Slovakia</i>
09:30-10:00	FK2	When Antibiotics Are Not Enough: Resistance and Persistence in Obligate Intracellular Pathogen <i>Coxiella burnetii</i> <u>Ľudovít Škultéty</u> <i>Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovakia</i>
10:00-10:20	FO1	Exploring the Analytical Landscape of Bioactive Endogenous Compounds: The <i>p</i>-Cresol Paradigm <u>Federica Pellati</u> <i>University of Modena and Reggio Emilia, Department of Life Sciences, Modena, Italy</i>
10:20-10:40	FO2	Library-Driven Automated Selection of Fragment Ions and Collision Energies for Quantitative Mass Spectrometry <u>Gergő Bodnár</u> <i>Thermo Fisher Scientific; Bratislava, Slovakia</i>

10:40-11:00	FO3	Application of Gas-Phase Electrophoresis (nES GEMMA Instrumentation) in Exhaled Breath Condensate (EBC) Characterization <u>Victor Weiss</u> <i>Technical University of Vienna, Institute of Chemical Technologies and Analytics, Vienna, Austria</i>
11:00-11:20	Coffee break	
Session 8 Chair: Jana Lavická		
11:20-11:50	FK3	Epitachophoresis – from Concept to Commercialization <u>František Foret</u> <i>Czech Academy of Sciences, Institute of Analytical Chemistry, Bioanalytical Instrumentation, Brno, Czech Republic</i>
11:50-12:30	FP1	Noninvasive Diagnosis of Invasive Infectious Diseases <u>Vladimír Havlíček</u> <i>Czech Academy of Sciences, Institute of Microbiology, Prague, Czechia</i>
12:30-12:50	Conference closing Prize announcement	
13:00-14:00	Lunch	

- P1 Berenikova Alzbeta: INTEGRATED MASS SPECTROMETRIC EVALUATION OF TRIBUTYLTIN SALICYLATE AND TRIBUTYLTIN PROPIONATE AS NOVEL RXR LIGANDS WITH ANTI-CANCER POTENTIAL IN BREAST CANCER CELLS**
- P2 Blaškovičová Jana: DETECTION OF TiO₂ NANOPARTICLES GENOTOXICITY AT DIFFERENT pH SIMULATING GASTROINTESTINAL TRACT**
- P3 Brezinova Lucie: COMBINATION OF RAMAN SPECTROSCOPY AND ACOUSTOFLUIDICS: TOWARDS CHEMICAL IDENTIFICATION OF FINE MICROPLASTICS**
- P4 Bun Syna: CAPILLARY GEL ELECTROPHORESIS OF DNA FRAGMENTS USING WATER-SOLUBLE HYDROPHILIC POLYMERS**
- P5 Cehlár Ondrej: THE USE OF BIOPHYSICAL TECHNIQUES IN THE CHARACTERIZATION OF BIOPHARMACEUTICALS**
- P6 Čmelík Richard: CHARACTERIZATION OF EXTRA PEAKS IN PHYTOCHELATIN PROFILING IN PLANT SAMPLES**
- P7 Ďatková Anna: MAPPING THE GLYCOME IN ALZHEIMER'S DISEASE: A GLYCOMICS APPROACH TO BIOMARKER DISCOVERY**
- P8 Duša Filip: IMPACT OF CARRIER AMPHOLYTES ON VESICLE STABILITY DURING CAPILLARY ISOELECTRIC FOCUSING**
- P9 Farkas Anna: POSTPARTUM IGA AND IGG N-GLYCOSYLATION IN THE PERSPECTIVE OF MATERNAL OBESITY AND GESTATIONAL DIABETES**
- P10 Góra Róbert: CHARACTERIZATION OF HUMIC ACIDS AND THEIR FRACTIONS BY RP-HPLC METHOD USING STEPWISE AND LINEAR GRADIENT ELUTION**
- P11 Htet Tar Tar Moe: AUTOMATED LAB-IN-SYRINGE DISPERSIVE SOLID PHASE MICROEXTRACTION USING DISSOLVABLE SORBENT FOR DETERMINATION OF ALKYLPHENOLS**
- P12 Javorek Michal: SERS AND SALDI MS IMAGING: TOWARD ORTHOGONAL IDENTIFICATION OF BIOMOLECULES**
- P13 Kapustíková Iva: ASSESSMENT OF GREEN SOLVENTS AS ALTERNATIVES TO ACETONITRILE FOR REVERSED-PHASE LIQUID CHROMATOGRAPHY OF INTACT PROTEINS**

- P14 Kopáčová Ivana: DEVELOPMENT AND VALIDATION OF HPLC-UV METHOD FOR CEFIDEROCOL ANALYSIS**
- P15 Łuczykowski Kamil: ANALYTICAL PROFILING OF BILIARY BILE ACIDS USING SOLID-PHASE MICROEXTRACTION FOR ASSESSMENT OF LIVER GRAFT VIABILITY**
- P16 Malenda Jiří: MALDI-TOF MASS SPECTROMETRY IMAGING OF ZOPHOBAS MORIO LARVAE FED WITH POLYSTYRENE**
- P17 Novák Dominik: LABEL-FREE IMPEDIMETRIC IMMUNOSENSOR FOR EXOSOME DETECTION**
- P18 Opetová Martina: MICROELUTION SOLID PHASE EXTRACTION USING GREEN SOLVENTS FOR TOP-DOWN CE-MS PROTEIN ANALYSIS**
- P19 Ponteš Adam: ANALYSIS OF INFLIXIMAB USING MULTISEGMENT INJECTION CE-DAD WITH SAMPLE PRECONCENTRATION**
- P20 Stoiber Anton: EXPOSE! - A PLATFORM FOR GAS, AEROSOL, AND PARTICULATE TOXICOLOGICAL EXPOSURE FOR AIR-INTERFACING TISSUES**
- P21 Strempeková Natália: OPTIMIZATION OF PRECONCENTRATION TECHNIQUES FOR THE ANALYSIS OF MONOCLONAL ANTIBODIES BY CAPILLARY ELECTROPHORESIS**
- P22 Šesták Jozef: PORTABLE HPLC SYSTEM FOR MOBILE LABORATORY - ANALYSIS OF HAZARDOUS COMPOUNDS**
- P23 Škvorová Fialová Kristýna: MICRO-PIPETTE TIPS BASED ON NANOFIBERS FOR THE EXTRACTION OF MYCOTOXINS**
- P24 Warmuzińska Natalia: SPME-BASED CHEMICAL BIOPSY FOR EARLYCOMPLICATION ASSESSMENT IN KIDNEY TRANSPLANTATION**