



SYMPOSIUM PROGRAM



Thursday, September 25

08:00 – 14:00	Registration
09:00 – 09:20	Opening Ceremony (Room 6 th Floor) <i>Chair: Živoslav Tešić</i> Melina Kalagasidis Krušić, president of the SCS Boguslaw Buszewski, president of the CEGSS Živoslav Tešić, conference chairman
09:20 – 09:30	Presentation Tswett – Nernst Awards (Room 6 th Floor) <i>Chair: Boguslaw Buszewski</i>
09:30 – 10:30	Tswett – Nernst Awards Lectures (Room 6 th Floor) <i>Chairs: Boguslaw Buszewski and Luigi Mondello</i>
09:30 – 10:00	A1 Michael Laemmerhofer , Cornelius Knappe, Ryan Karongo, Kefan Cheng, Simon Jaag, Xiaoqing Fu, Min Su, Peng Li, Isomer separations all over the molecular space across pharmaceutical and bioscience application fields
10:00 – 10:30	A2 Imre Molnar , Hans-Jürgen Rieger, Zuzana Hrusovska, Development in software modeling of HPLC
10:30 – 11:00	Welcome cocktail
11:00 – 12:40	Session 1 - Invited lectures (Room 6 th Floor) <i>Chairs: Danilo Corradini and Marcin Frankowski</i>
11:00 – 11:20	IL1 Erwin Rosenberg, Armig Kabrelić, Noemae Lim, Markus Latschka, Georg Lenk, Markus Maly, Chemometric and Machine Learning Techniques to Predict Gas Chromatographic Retention Indices
11:20 – 11:40	IL2 Luigi Mondello, Green and Sustainable Methods in Chromatography and Related Techniques
11:40 – 12:00	IL3 Massimo Del Bubba, Giulia Bonaccorso, Daniela Santianni, Donatella Fibbi, Analysis of microplastics in aqueous matrices by pyrolysis-gas chromatography-mass spectrometry: dream or reality?
12:00 – 12:20	IL4 Václav Kašička, Petra Sázelová, Veronika Šolínová, Renáta Konášová, Iva Michalusová, Pavel Cejnar, Radovan Hynek, Peptide Mapping of Proteins by Capillary Electrophoresis

12:20 – 12:40	IL5 Boguslaw Buszewski, H. Al-Saoud, M. Szumski, M. Sprynskyy, Biosilica – smart new generation packing nanomaterials for separation techniques
13:00 – 14:30	Lunch break
14:30 – 16:15	Session 2 – Invited lectures & Oral presentations (Room 6 th Floor) <i>Chairs: Erwin Rosenberg and Massimo Del Bubba</i>
14:30 – 14:50	IL6 Danilo Corradini, Synthesis and accumulation of secondary metabolites in selenium-enriched edible plants
14:50 – 15:10	IL7 Irena Vovk, Vesna Glavnik, Maja Bensa, Živa Vipotnik, Breda Simonovska, Etil Guzelmeric, Nisa Beril Sen, Péter G. Ott, Ágnes M. Móricz, Simona Strgulc Krajšek, Analyses of phytochemicals in plant and food matrices – solving problems in chromatographic and effect-directed analyses
15:10 – 15:30	IL8 Jasmina Petreska Stanoeva, Marinela Cvetanoska, Marina Stefova, Innovative and Eco-Friendly NADES Extraction with Mass Spectrometry for Phytochemical Profiling in Plants
15:30 – 15:45	OP1 Jana Lavicka, Filip Dusa, Richard Cmelik, Denisa Smolkova, Jozef Sestak, Advancing detection sensitivity of capillary electrophoresis-based profiling of fluorescently labeled oligosaccharides and glycans
15:45 – 16:00	OP2 Petr Tůma, 3D printed tools for on-line coupling of capillary electrophoresis with microdialysis and electromembrane extraction
16:00 – 16:15	OP3 Mihail Simion Beldean-Galea, Irina Simo, Vlad Alexandru Pănescu, Jerome Vial, Assessment of the prevalence, pollution sources and ecological risk of some POPs in the Cerna River basin, Romania
16:15 – 17:00	Coffee break
17:00 – 19:10	Session 3 – Invited lectures & Oral presentations (Room 6 th Floor) <i>Chairs: Jasmina Petreska Stanoeva and Petr Češla</i>
17:00 – 17:20	IL9 Milica Kalaba, Stevan Blagojević, Živoslav Tešić, Assessment of Honey Authenticity Using Chromatographic Methods
17:20 – 17:40	IL10 Anetta Ziola-Frankowska, Dorota Jakkielska, Marcin Frankowski, Food analysis of recent market products with a risk assessment factors
17:40 – 17:55	OP4 Kamila Mitrowska, Katarzyna Sielska, An application of passive samplers for monitoring of pharmacologically active dyes in surface waters
17:55 – 18:10	OP5 Hartmut Frank, Polyfluorinated Aliphatic Substances (PFAS), unusual persistent organic pollutants

18:10 – 18:25	OP6 Danijel D. Milinčić, Katarina Delić, Mirjana B. Pešić, Phenolic compounds as chemical signatures of wine quality and aging
18:25 – 18:40	OP7 Mirjana B. Pešić, Aleksandar Ž. Kostić, Slađana P. Stanojević, Milica M. Pešić, Danijel D. Milinčić, LC/MS approach for monitoring the recovery of bioactives under simulated gastrointestinal digestion conditions
18:40 – 18:55	OP8 Maja Bensa, Mojca Jevšnik Podlesnik, Irena Vovk, Do principles of good analytical practice and consumer food safety overlap?
18:55 – 19:10	OP9 Jan Valášek, Antonín Bednařík, Martina Nechvátalová, Jan Presiler, Jiří Urban, Design of Experiments-Based Optimization of Microflow LC-MS Method Applicable in Proteomics Analysis
19:30 – 21:30	Guided walking tour of the Belgrade Center and Kalemegdan Park

Friday*, September 26

*parallel sessions at 6th and ground floor

08:00 – 14:00	Registration
09:00 – 11:00	Session 4 – Invited lectures & Oral presentations (Room 6 th Floor) <i>Chairs: Irena Vovk and Michael Laemmerhofer</i>
09:00 – 09:20	IL11 Krisztián Horváth, Attila Somfai, From Moments to Mechanisms: Bridging Microscopic and Macroscopic Models in HPLC
09:20 – 09:40	IL12 Petr Česla, Michal Kašpar, Miroslav Kubát, Barbora Tošovská, A new approach to numerical optimization of gradient separation conditions in liquid chromatography coupled with tandem mass spectrometric detection
09:40 – 10:00	IL13 Róbert Góra, Possibilities of using liquid chromatography methods in the characterization of lignin, humic and fulvic acids and similar operationally defined substances
10:00 – 10:15	OP10 Füsün Pelit, İlknur Erbaş, Merve Gül, Nazlı Mert Özüpek, Yasemin Basbınar, Tuncay Göksel, Levent Pelit, Analytical Microextraction Strategies for Clinical Applications
10:15 – 10:30	OP11 Berfu Yiğriik, Tugberk Nail Dizdaş, Serkan Bolat, Füsün Pelit, Boguslaw Buszewski, Levent Pelit, Implementation of Microextraction Techniques in Gas Sample Analysis
10:30 – 10:45	OP12 Danilo Sciarrone, Lorenzo Cucinotta, Marta Pavarino, Francesca Cannizzaro, Barbara Sgorbini, Patrizia Rubiolo, Luigi Mondello, Bio-guided fractionation of black pepper essential oil by means of preparative gas chromatography

10:45 – 11:00	OP13 Anna Kosmáková, Aryna Paulenka, Jan Valášek, Jan Preisler, Jiří Urban, Development of a comprehensive two-dimensional liquid chromatography combining top-down and bottom-up protocols
11:00 – 11:30	Coffee break
11:30 – 13:00	Session 5 – Invited lectures & Oral presentations (Room 6 th Floor) <i>Chairs: Slavica Oljačić and Tomislav Tosti</i>
11:30 – 11:50	IL14 Marcin Frankowski, Dorota Jakkielska, Anetta Zioła-Frankowska, Speciation analysis – where are we and where will we be?
11:50 – 12:10	IL15 Modest Gertsuik, Study of the pollution status of the Dnipro River in the water area of the city of Kyiv
12:10 – 12:30	IL16 Maria-Virginia Coman, Mihaela-Cătălina Herghelegiu, Thin-layer chromatography as a starting point in forensic analysis
12:30 – 12:45	OP14 Noemae Lim, Markus Latschka, Georg Lenk, Markus Maly, Erwin Rosenberg, Fuel Property Prediction from GC×GC-Derived Compositional Profiles
12:45 – 13:00	OP15 Roberto Laganà Vinci, Katia Arena, Francesca Rigano, Francesco Cacciola, Paola Dugo, Luigi Mondello, Cap-LC and QSRR Modelling: Green approach for Phenolic Compounds analysis and Retention Mechanism Elucidation
13:00 – 14:30	Lunch break
14:30 – 15:45	Session 6 – Oral presentations (Room 6 th Floor) <i>Chairs: Modest Gertsuik and Aleksandra Tasić</i>
14:30 – 14:45	OP16 Domenica Mangraviti, Emanuela Trovato, Francesca Rigano, Federica Vento, Hussein Fakhry, Paola Dugo, Luigi Mondello, Metabolomics fingerprinting of Egyptian <i>Calendula officinalis</i> L. by Rapid Evaporative Ionization Mass Spectrometry (REIMS)
14:45 – 15:00	OP17 Paola Donato, Cristian Reale, Ivana Bonaccorsi, Luigi Mondello, Effect of Mobile Phase Density in Supercritical and Subcritical Fluid Chromatography with Different Column Chemistries
15:00 – 15:15	OP18 Paweł Kubica, Dominika Osiecka, Tomasz Majchrzak, Christina Vakh, Tailored Sample Preparation for Targeted Analysis of Trace Contaminants in Consumer Products: From Vaping Liquids to Plant-Based Foods
15:15 – 15:30	OP19 Agneša Szarka, Ján Hrouzek, Dragana Šunjka, Sanja Lazić, Svetlana Hrouzková, Greener Alternatives in Fungicide Residue Analysis: Towards Sustainable Monitoring in Strawberries
15:30 – 15:45	OP20 Natalia Manousi, Apostolia Tsiasioti, Aristidis Anthemidis, Abuzar Kabir, Erwin Rosenberg, Sol-gel Coated Foams as

	Powerful Sorbents for Green Sample Preparation of Biological, Environmental, and Food samples
15:45 – 16:00	OP21 Natalia Manousi, Caterina D'Anna, Francesco Pio Paci, Claudia Stevanin, Anne Galarnreau, Ahmad Mehdi, Luisa Pasti, Rapid PFAS Uptake by Rice Husk-Derived Functionalized MCM-41: A Fast-Action Adsorbent for Water Treatment
16:00 – 16:30	Coffee break
16:30 – 17:00	Session 7 – Sponsors' presentation (Room 6 th Floor) <i>Chairs: Dragana Živojinović</i>
16:30 – 16:45	MDPI Ksenija Bogojević, Meet the Journal: MDPI Separations
16:45 – 17:00	LECO Pavel Jiros, LECO and better solution for MOSH/MOAH analysis
17:00 – 18:00	CEGGS Meeting (Room 6 th Floor)

09:00 – 13:00	Poster Sessions (Room Ground Floor) <i>Chairs: Mirjana Pešić, Aleksandar Kostić and Dimitrije Mara</i>
09:00 – 11:00	Poster Session 1 P1 – P43
11:00 – 13:00	Poster Session 2 P44 – P86
13:00 – 14:30	Lunch break
14:30 – 16:40	Flash Oral Presentations Session (Room Ground Floor) <i>Chairs: Nebojša Jasnić, Robert Gora and Anetta Ziola-Frankowska</i>
14:30 – 14:38	FP1 Giulia Bonaccorso, Rayco Guedes-Alonso, Zoraida Sosa-Ferrera, José Juan Santana-Rodrigue, Daniela Santianni, Massimo Del Bubba, How are steroid hormone transformation products metabolised in a natural wastewater treatment system? Identification through a “suspect screening” approach
14:38 – 14:46	FP2 Dominika Osiecka, Tomasz Majchrzak, Paweł Kubica, Acrylamide, furaneol and 5-hydroxymethylfurfural content monitoring in plant-based meat substitutes
14:46 – 14:54	FP3 Sara Morozzi, Lapo Renai, Simone Orlandini, Leonardo Verdi, Massimo Del Bubba, Using comprehensive two-dimensional gas chromatography-mass non-targeted analysis for the discovery and identification of polyphenolic markers of wheat from different varieties and geographical origins
14:54 – 15:02	FP4 Milica Fotirić Akšić, Marko Kitanović, Andjelija Obradović, Biljana Rabrenović, Lazar Pejić, Mekjell Meland, A comparative study of fatty acid and tocopherol profile in apple and plum seed oils from Norway

15:02 – 15:10	FP5 Miroslav Kubat, Petr Česla, HILIC-MS/MS for precise glutathione metabolism profiling
15:10 – 15:18	FP6 Barbora Tošovská, Petr Česla, Column material as a key parameter for HPLC-MS of low molecular weight metabolites
15:18 – 15:26	FP7 Michal Kašpar, Jana Kubáleková, Barbora Martincová, Soňa Řezková, Tomáš Bajer, Petr Česla, Tailored Gradient Optimization Strategy for LC-MS/MS in MRM Mode: Practical Applications
15:26 – 15:34	FP8 Anastasiia Frolova, Yuriy Ikhlaynen, Mikhail Vokuev, Igor Rodin, Untargeted metabolomic profiling of urine samples from patients with urogenital cancer using high-performance liquid chromatography-mass spectrometry
15:34 – 15:42	FP9 Miloš Marić, Pavle Sitarica, Magdalena Radović, Marija Mirković, Marko Perić, Branka Ivković, Thin-Layer Chromatography for evaluating radiolabeling efficiency and stability of ¹³¹ I labeled chalcone
15:42 – 15:50	FP10 Federica Vento, Emanuela Trovato, Domenica Mangraviti, Francesca Rigano, Hussein Fakhry, Paola Dugo, Luigi Mondello, Characterization of essential oil and absolute of Egyptian <i>Calendula officinalis</i> L. by gas chromatographic techniques
15:50 – 15:58	FP11 Milan Selaković, Bojan Marković, Vladimir Dobričić, Dragana Orlović, Zorica Vujić, Branka Ivković, Development and Validation of HPLC-MS/MS Method for the Determination of Nitrosamine Impurities in Molsidomine Tablets
15:58 – 16:06	FP12 Jevrem Stojanović, Teodora Kočić, Milan Milenković, Biljana Otašević, Anđelija Malenović, Mira Zečević, Ana Protić, Successful phtalate monitoring – challenges in ESI-MS parameters tuning
16:06 – 16:14	FP13 Cristian Reale, Giovanna Cafeo, Antonella Satira, Marina Russo, Paola Donato, Luigi Mondello, A Green Chromatographic Approach for the Determination of Oxygen Heterocyclic Compounds by Subcritical Fluid Chromatography
16:14 – 16:22	FP14 Margot Biesemans, Paweł Wiczling, Jakub Sławski, Renata Wawrzyniak, Julia Jacyna, Rafał Bartoszewski, Michał Markuszewski, Optimization of sample preparation and analysis of mitochondria for untargeted metabolomics using Bayesian modelling
16:22 – 16:30	FP15 Apostolia Tsiasioti, Natalia Manousi, Antonio Ferracane, Natasa P. Kalogiouri, Luigi Mondello, Erwin Rosenberg, Characterization of the volatile profiles of plant-based protein powders using comprehensive two-dimensional gas chromatography-mass spectrometry and solid phase microextraction arrow

19:30 – 22:00	Gala dinner (Sava and Danube cruise)
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Saturday, September 27

08:00 – 09:00	Registration
09:00 – 10:35	Session 8 – Special session dedicated to D. Agbaba (Room 6 th Floor) <i>Chairs: Irena Vovk and Katarina Karljiković-Rajić</i>
09:00 – 09:20	IL17 Slavica Oljačić, Marija Popović-Nikolić, Darija Obradović, Dušan Ružić, Jelica Vučićević, Mitja Križman, Irena Vovk, Gordana Popović, Katarina Nikolić, Application of Separation Methods in Biomimetic Studies and the Determination of Physicochemical Properties of Imidazoline and α -Adrenergic Receptor Ligands
09:20 – 09:35	OP22 Marija Popović-Nikolić, Gordana Popović, Slavica Oljačić, Katarina Nikolić, Danica Agbaba, Exploring the effect of bioenvironment on the ionization of drugs using the membrane mimetic properties of differently charged micelles
09:35 – 09:50	OP23 Biljana Otašević, Bojana Konrad, Jovana Krmar, Machine learning in predictive modelling of mixed mode chromatography analysis of small drug molecules
09:50 – 10:05	OP24 Jelena Bošković, Milkica Crevar, Olivera Čudina, Vladimir Dobričić, RP-HPLC Evaluation of Lipophilicity and Quantitative Structure-Retention Relationships Analysis of a Selected Group of COX-2 and 5-LOX Inhibitors
10:05 – 10:20	OP25 Željka Bešović, Nemanja Turković, Milena Turković, Branka Ivković, Examination of the Optical Purity of Clopidogrel Using Chiral HPLC
10:20 – 10:35	OP26 Biljana Tubić, Bojan Marković, Branka Ivković, Ivan Kovačević, The Validation of a Computational Model for Prediction of Membrane Permeability
10:35 – 11:00	Coffee break
11:00 – 12:20	Session 9 – Special session dedicated to D. Agbaba (Room 6 th Floor) <i>Chairs: Maria Virginia Coman and Branislava Miljković</i>
11:00 – 11:20	IL18 Milkica Crevar, Branka Ivković, Nastasija Anđelković, Miloš Marić, Aleksandra Milutinović, Morpholino chalcones – comparative analysis of the application of liquid and thin-layer chromatography methods for lipophilicity testing
11:20 – 11:35	OP27 Milica Atanacković Krstonošić, Mira Mikulić, Veljko Krstonošić, Surfactant-assisted aqueous extraction of grape pomace polyphenols
11:35 – 11:50	OP28 Anđelija Malenović, Ana Protić, Innovative approach to the development of separation methods for the drug quality control

11:50 – 12:05	OP29 Jelena Savić, Aleksandra Labudović, Darija Obradović, Branka Ivković, Zorica Vujić, Development and validation of an HPLC method for the determination of levodopa, carbidopa, and entacapone in tablets
12:05 – 12:20	OP30 Marija Čarapić, Katarina Nikolić, Bojan Marković, Miloš Petković, Danica Agbaba, Development of separation methods for the investigation of retention characteristics, assay and impurities of ziprasidone
12:30 – 13:00	Closing ceremony