

Scientific Program

Sunday, September 3rd

15:00	Registration
17:00	Opening ceremony
17:30	OL From Metabolism to Metabolomics – an analytical journey. <i>Serge Rudaz, University of Geneva (Switzerland)</i>
18:40	"Trio ARTEMIDE" concert
19:30	Welcome cocktail

Monday, September 4th

Pharmaceutical Analysis I

09:30	KN1 Application of polysaccharide-based chiral columns to enantioselective bioanalysis of psychotropic compounds. <i>Bezhana Chankvetadze - University of Tbilisi (Georgia)</i>
10:00	OC1 Surface plasmon resonance and grating-coupled interferometry to investigate interactions with GPR17 membrane receptor. <i>Francesca Rinaldi - University of Pavia (Italy)</i>
10:20	FC1 Accelerating Oligonucleotide Research Using Novel Bioinert LC, QTOF and TQ LC-MS. <i>Paolo Redegalli - Shimadzu (Italy)</i>
10:30	Coffee break

Pharmaceutical Analysis II

11:00	KN2 Advanced analytical tools in pharmaceutical analysis. 1D and 2D LC-MS techniques applied in biomedical sciences. <i>István Ilisz - University of Szeged (Hungary)</i>
11:30	OC2 Rethinking a sample preparation procedure overlooked for too long. <i>Luca Regazzoni - University of Milan (Italy)</i>
11:50	OC3 Can purified water impact your LC-MS analyses of pharmaceutical molecules? <i>Graziano Marcer - Merck Life Science (Italy)</i>
12:10	Lunch
13:15	Poster session I

Bioanalysis in Drug Discovery & Development

14:30	KN3 Untargeted Lipidomics in early drug discovery: aims and computer-aided workflows. <i>Laura Goracci - University of Perugia (Italy)</i>
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- 15:00 **OC4** LC-MS/MS and IC-LC-MS/MS methods for the quantification of NBE and ADC in preclinical studies.
Ilse Maria Luce De Salve - Merck RBM Colletterto Giacosa (Italy)
- 15:20 **OC5** Integrated mass spectrometry-based strategy to evaluate metabolic stability, pharmacokinetics, and pharmacodynamics: A case study on novel soluble epoxide hydrolase inhibitors.
Manuela Giovanna Basilicata - University of Salerno (Italy)
- 15:40 **OC6** Mass Spectrometry Imaging as support to novel CB-2 agonist development: simultaneous spatial detection of multiple neurotransmitters in a model of cognitive impairment.
Emanuela Salviati - University of Salerno (Italy)
- 16:00 **Coffee break**

Food Analysis

- 16:20 **KN4** Comprehensive two-dimensional gas chromatography a gestalt technique in food metabolomics.
Chiara Cordero - University of Turin (Italy)
- 16:50 **OC7** A new millifluidic-based gastrointestinal model to study bioaccessibility and cytotoxicity of bioactive compounds.
Raffaella Colombo - University of Pavia (Italy)
- 17:10 **OC8** Integrated analytical approaches for the characterization of nutraceutical bioactives in microalgae.
Serena Montanari - University of Bologna (Italy)

Tuesday, September 5th

- 09:15 **PL1** Molecularly imprinted polymers as versatile abiotic receptors in bioanalysis.
Börje Sellergren - Malmö University (Sweden)

Clinical and Biomedical Analysis

- 10:00 **KN5** Microfluidic and electrophoretic approaches to address the challenges generated by the exploration of extracellular vesicles for diagnostic or therapeutic applications.
Myriam Taverna - Institut Galien Paris-Saclay disabled, Chatenay-Malabry (France)
- 10:30 **OC9** Could lipidome of neuroblastoma cells be preserved by the activity of myricetin, inhibitor of A β 1-42 peptide aggregation?
Lara Davani - University of Bologna (Italy)
- 10:50 **FC2** Glycan specific MIPs for cancer associated biomarkers.
Cecilia Contardi - University of Pavia (Italy)
- 11:00 **FC3** Fast in-sample multiplexed quantification of endogenous metabolites associated with chronic kidney disease using liquid chromatography–mass spectrometry.
Gioele Visconti - University of Geneva (Switzerland)
- 11:10 **Coffee break**

Protein Analysis

11:30	KN6	Prescriptomics: what is it expecting ahead? Jose Luis Capelo - University of Lisbon (Portugal)
12:00	OC10	M ^{PRO} protease (SARS-CoV-2) covalent inhibitors identification from an anthocyanin-rich blueberry extract using an OMICS-based analytical platform. Alessandra Anna Altomare - University of Milan (Italy)
12:20	OC11	Elucidation of the anti-inflammatory and antioxidant activities of 5-(3'-4'-dihydrophenyl)- γ -valerolactone, the main metabolite of a standardized grapeseed pacs extract through a proteomic approach. Giovanna Baron - University of Milan (Italy)
12:40		Lunch
14:00		Poster session II

Metabolomics and Lipidomics

15:00	KN7	Multiplatform strategies for the study of microbial metabolites by MS-based metabolomics. Antonia García - University San Pablo, Madrid (Spain)
15:30	OC12	Metaproteomics and metabolomics investigation of microbiome alterations in pediatric obese patients subjected to a dietary intervention with Mediterranean diet. Marcello Manfredi - University of Piemonte Orientale
15:50	OC13	Sub-5 min 4D-Lipidomics: A proof of concept. Fabrizio Merciai - University of Salerno (Italy)
16:10	FC4	Investigating the metabolomic network in patients with diabetic kidney disease. Marta Nugnes - University of Bologna (Italy)
16:20		Coffee break

Drug Product Analysis

16:30	KN8	Application of MALDI FT-ICR MS in the Development of Glycoengineered Bacterial E. coli Vaccines. Simone Nicolardi - Leiden University Medical Center (LUMC) (Netherlands)
17:00	OC14	Application of ion chromatography to analyse pharmaceutical formulations. Erwin Adams - University of Leuven (Belgium)
17:20	FC5	Chemometric tools for photostability testing of tamoxifen in the oral formulation and stabilization strategies. Martina Chieffallo - University of Calabria (Italy)
17:30	OC15	ICH Q2(R2) and Q14: the new frontiers. Dina Cavallo - PRC TICINUM LAB Novara (Italy)
20:30		Social dinner

Wednesday, September 6th

09:00 **PL2** Chemometric-Based Strategies for Metabolomics and Pharmaceutical Analysis
Federico Marini - University of Roma 1

Natural Products I

09:45 **KN9** Neuroprotective assessment of medicinal plant extracts.
Clara Grosso - Polytechnic Institute of Porto (Portugal)

10:15 **OC16** Targeting PPAR- α and PPAR- γ through AS-MS approach: two-dimensional chromatography for the affinity screening of bioactive components in natural products.
Giulia De Soricellis - University of Pavia (Italy)

10:25 **OC17** Use of natural ingredients with antiviral activity in the production of nasal and oropharyngeal sprays for the prevention of flu syndrome resulting from Sars Cov2: the cross-border 'SPRAY' project.
Luigi Panza - Consorzio IBIS Innovative Bio-based and Sustainable products and processes Novara (Italy)

10:45 **FC6** Polyphenols from *Cannabis sativa L.*: new methods for their extraction, analysis, and evaluation of their antiproliferative activity against colorectal cancer.
Clarissa Caroli - University of Modena and Reggio Emilia (Italy)

10:55 **Coffee break**

Natural Products II

11:15 **KN10** Bioactivity-correlated analytical techniques used for studying bioactive drug leads in desert-loving *Eremophila* spp.
Dan Stærk, University of Copenhagen (Denmark)

11:45 **OC18** Optimized strategy for the isolation of Elenolic Acid (EA) from *Olea europea L.* leaf.
Serena Fiorito - University of Chieti-Pescara (Italy)

12:05 **FC7** Multidimensional chromatographic fingerprinting combined with chemometrics for the identification of regulated plants in suspicious plant food supplements.
Surbhi Ranjan - University of Leuven (Belgium)

12:15 **Best posters awards**

12:35 **Closing remarks**

12:45 **Farewell lunch**