



Day 2 - Monday (Details)

Large Lecture Room

Small Lecture Room

Analytical approaches in metallomics / Chair: Norbert Jakubowski			
08:15	Ryszard Lobinski / IL3 / pg 5 Analytical chemistry tools for metallomics: revisited and emerging	Toxicology / Chair: Yasumitsu Ogra	
09:00	Thomas Walczyk / IL4 / pg 6 Exploration of brain iron uptake and turnover in rodents using stable isotope techniques	Tanja Schwerdtle / IL5 / pg 9 Toxicological characterization of arsenolipids: insights from cells, flies, worms and mice	
09:30	Yuko Yamagata / you1 / pg 7 Evaluation of Fe metabolism for deep sea organisms based on isotope signature	Teresa Chavez-Capilla / you3 / pg 10 Arsenolipids: A journey through the human gut	
09:45	Sara Lauwens / you2 / pg 8 High-precision isotopic analysis of Cu via multi-collector ICP-mass spectrometry in blood serum of liver transplant recipients	Ronald Glabonjat / you4 / pg 11 A novel arsenolipid biosynthesised by <i>Dunaliella tertiolecta</i> under controlled culturing conditions	
10:00	Coffee break		
Analytical approaches in metallomics / Chair: Walter Gössler		Toxicology / Chair: Tanja Schwerdtle	
10:30	Maria Montes / IL6 / pg 12 Nanostructured metalodrugs: new challenges for analytical chemistry	Yasumitsu Ogra / IL7 / pg 19 Toxicology of tellurium explored by speciation and identification of tellurometabolites	
11:00	Konrad Loehr / you5 / pg 13 Towards quantitative high throughput single cell LA-ICP-MS: microarraying of single cells and calibration standards via piezo based non-contact dispensing	Hai-Bo Wang / you8 / pg 20 Mapping protein targets of bismuth- and silver- based antimicrobials enables in-depth deciphering their molecular mechanisms	
11:15	Ying Zhou / you6 / pg 14 Single cell analysis of arsenic-containing drugs -Implicating the design of more effective arsenic drugs with better intracellular uptake	Michael Stiboller / you9 / pg 21 Distribution of arsenic and its species in human milk	
11:30	Lingdong Sun / L1 / pg 15 Dual-Band Luminescent Nanoparticles toward Integrated Therapy and Imaging Platform	Theodora Stewart / L4 / pg 22 Impact of chronic Ag exposure on intracellular Zn homeostasis in a fish intestinal cell line	
11:50	Dörthe Dietrich / L2 / pg 16 Complementary bioimaging to investigate changes in the phospholipid distribution in lung tissue after instillation of nanoparticles	Yuchuan Wang / L5 / pg 23 Metalloproteomic and metabolomic analyses reveal the competing mechanism of gallium with iron in <i>Pseudomonas aeruginosa</i>	
12:10	Olga Borovinskaya / L3 / pg 17 Multi-element rapid detection using time-of-flight mass spectrometry for bioimaging and single cell analysis	Yu-Feng Li / L6 / pg 24 Selenium reduced the level of mercury and promoted it to bind with Selenoprotein P in serum from methylmercury-poisoned rats	
12:30	Justyna Wojcieszek / you7 / pg 18 Investigation of mechanisms of the ZnO nanoparticles uptake in edible plants by single particle ICP MS and HPLC - ICP MS / ESI FT MSn	Barbara Witt / you10 / pg 25 Characterizing neurotoxic effects of arsenolipids applying various in vitro models	
12:45	Lunchseminar (Thermo Fisher: Performance for all Applications, Technology for all Challenges) / Lunchbreak		
14:00	Postersession		



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Analytical techniques / Chair: Claudia Swart		Toxicology / Chair: Chunying Chen	
14:45	Clay Davis / IL8 / pg 26 Developing the Next Generation of Reference Materials for Proteomic and Metalloprotein Measurements	Seiichiro Himeno / IL9 / pg 29	Renal handling of heavy metals and its implications in renal toxicity
15:15	Julia Gleitzmann / L7 / pg 27 IDMS-based quantification of metal-containing proteins with clinical relevance	Javier Jiménez-Lamana / L9 / pg 30	Identification of molecular targets of different chemical forms of nickel in human skin cells by mass spectrometry
15:35	Larissa Müller / L8 / pg 28 Laser Ablation Imaging Using Triple Quadrupole ICP-MS as a Tool for Biological Studies	Magdalena Matczuk / L10 / pg 31	On the track of trafficking gold nanoparticles: Speciation changes in human cytosol
15:55	Coffee break		
Analytical techniques / Chair: Martina Marchetti-Deschmann		Different applications of hyphenated techniques / Chair: Xinrong Zhang	
16:25	Heidi Goenaga-Infante / IL10 / pg 32 A Metallomic Approach to Study the Interaction of Inorganic Oxide Nanoparticles with Biological Systems in Nanotoxicity Studies	Chunying Chen / IL11 / pg 39	Understanding the interaction of living systems with engineered metal nanoparticles by synchrotron radiation-based techniques
16:55	Sören Meyer / L11 / pg 33 Single-cell analysis by ICP-MS/MS as fast tool for cellular bioavailability studies of metal species	Agnes Hagege / L16 / pg 40	Hyphenated capillary electrophoresis ICP/MS: a promising technique to boost the metallomics toolbox.
17:15	Jörg Bettmer / L12 / pg 34 Single Quadrupole and Triple Quadrupole ICP-MS for Single Particle Analysis of TiO ₂ Particles	Andrea Raab / L17 / pg 41	Sulphur-containing peptides - Detection, Identification and Quantification
17:35	Ana Lopez-Serrano / L13 / pg 35 Quantification of Silver Nanoparticles at Single Cell Level by Mass Cytometry	Martin Stillman / L18 / pg 42	Binding constants for copper binding to metallothionein: Solving very complicated problems using ESI mass spectrometry
17:55	Jörg Michel / L14 / pg 36 Improving Drug Therapies using Single Cell ICP-MS	Naoki Furuta / L19 / pg 43	Peptide analysis of selenoproteins produced after intravenous injection of ⁸² Se enriched selenite or selenomethionine in mice
18:15	Weiyue Feng / L15 / pg 37 ICP-MS based single cell analysis and its application to the study of element masses and distribution patterns in single cells	Lena Ruzik / L20 / pg 44	What is hidden in the goji berries? A response from hyphenated techniques
18:35	Annabelle Mattern / you11 / pg 38 Synthesis and Functionalisation of Gold Nanoparticles with Biogenic Amines		
18:50	Workshop 2 (Martina Marchetti-Deschmann, Andreas Limbeck) Tutorial Imaging	Workshop 4 (Thomas Walzyk) Tracer Studies	