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Scientific Program

4th World Congress on

Mass Spectrometry

June 19-21, 2017 London, UK

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Day 1 June 19, 2017

07:15-08:15 Registrations

Waterfront 4

conferenceseries.com 08:15-08:25 **Opening Ceremony**

Keynote Forum

08-25-08:30	**Introduction**
08:30-08:55	**Title: Multistage Mass Spectrometry for Characterization of Bioactive Oligoesters** **Marek M. Kowalczuk**, University of Wolverhampton, UK
08:55-09:20	**Title: Precision mass measurements by time-of-flight mass spectrometry in the laboratory and in space missions** **Hermann Wollnik**, New Mexico State University, USA
09:20-09:45	**Title: Problems and solutions of laser mass spectrometry** **Alexander A Sysoev**, National Research Nuclear University MEPhI, Russia
09:45-10:10	**Title: From cities of proteins to the only large-brain mass-societies: Is excessive brain power a hindrance in the emergence of modern human societies?** **Magnus S Magnusson**, University of Iceland, Iceland

Networking & Refreshments 10:10-10:20 @ Foyer

Sessions: Applications of Mass Spectrometry | Recent Advances and Development in Mass Spectrometry

Session Chair: Alexander A. Sysoev, National Research Nuclear University MEPhI, Russia
Session Co-chair: Dijana Matak-Vinković, University of Cambridge, UK

Session Introduction

10:20-10:40	**Title: Measurement of DNA repair proteins in cancer by mass spectrometry** **Miral Dizdaroglu**, National Institute of Standards and Technology, USA
10:40-11:00	**Title: The role of specificity in improving diagnosis and treatment of hypothyroidism and adrenal diseases** **Steven J Soldin**, National Institutes of Health (NIH), USA
11:00-11:20	**Title: Investigation on bimolecular complexes in natural extracts by parent ion and neutral loss MS/MS experiments** **Pietro Traldi**, Pediatric Research Institute Città della Speranza, Italy
11:20-11:40	**Title: Advances in applications of mass spectrometry (ToF-SIMS, LA-ICP-ToF-MS) for forensic analysis** **Małgorzata Iwona Szynkowska**, Lodz University of Technology, Poland
11:40-12:00	**Title: Integrated microfluidics for protein modification discovery** **Amit Tzur**, Bar Ilan University, Israel
12:00-12:20	**Title: Mass spectrometry reveals protein kinase CK2 high-order oligomerization via the circular and linear assembly** **Dijana Matak-Vinković**, University of Cambridge, UK

Lunch Break 12:20-13:10 @ Restaurant

Sessions: Applications of Mass Spectrometry | Proteomics and its applications

Session Chair: Marek M Kowalczuk, University of Wolverhampton, UK
Session Co-chair: Kay Ohlendieck, Maynooth University, Ireland

Session Introduction

13:10-13:30	**Title: Identification of designer drugs by real time-mass spectrometry (DART-MS)** **Jindra Valentová**, Comenius University in Bratislava, Slovakia
13:30-13:50	**Title: Mass spectrometry-based proteomic profiling of muscular dystrophy** **Kay Ohlendieck**, Maynooth University, Ireland

13:50-14:10	**Title: A Mass Spectrometry Perspective on Dormancy and Antibiotic Tolerance in Bacteria** **Steven J Bark,** University of Houston, USA
14:10-14:30	**Title: Detection and quantification of acrylamide in cookies by LC-ESI-orbitrap** **Luis F Guido,** University of Porto, Portugal
14:30-14:50	**Title: Mass spectrometry impact on natural complex products comprehensive analysis: From research to routine quality control** **Luisa Mattoli,** Aboca Spa, Italy
14:50-15:10	**Title: Mass spectrometry application to molecular toxicology and biomarker discovery: carcinogen-modified histones** **Alexandra Maria Moita Antunes,** Instituto Superior Técnico / Centro de Química Estrutural, Portugal
15:10-15:30	**Title: Eco-friendly UHPLC-MS/MS method for analysis of multi-class micropollutants in drinking water** **Ana R Ribeiro,** Universidade do Porto, Portugal
	Networking & Refreshments 15:30-15:40 @ Foyer
	Sessions: Applications of Mass Spectrometry | New Approaches in Mass Spectrometry | Chromatography and High Performance Liquid Chromatography (HPLC) **Session Chair: Jin Ouyang,** Beijing Normal University, China **Session Co-chair: Fernando Ramos,** University of Coimbra Health Sciences, Portugal
	Session Introduction
15:40-16:00	**Title: Arginine modification by 1, 2-dicarbonyl compounds studied by liquid chromatography-electrospray ionization mass spectrometry (LC-ESI-MS)** **V Sabareesh,** Vellore Institute of Technology (VIT) University, India
16:00-16:20	**Title: High-throughput screening of protein-bound drugs and enzyme inhibitors using ambient mass spectrometry** **Jin Ouyang,** Beijing Normal University, China
16:20-16:40	**Title: Application of liquid chromatography-mass spectrometry in the analysis of phytochemicals** **Natalja P Nørskov,** Aarhus University, Denmark
16:40-17:00	**Title: Mass spectrometry-an important tool in food safety for veterinary drug residue analysis** **Fernando Ramos,** University of Coimbra Health Sciences, Portugal
17:00-17:20	**Title: HPLC based method for proteomic biomarker analysis: Application of in vivo drug metabolite in human plasma** **Sermin Tetik,** Marmara University, Turkey
17:20-17:40	**Title: The application of portable GC-MS on the petrochemical wharf** **Zhao Yun,** Waterborne Transport Research Institute, China
	Workshop
17:40-18:10	**Title: Language of Mass Spectrometry** **Athula Attygalle,** Stevens Institute of Technology, USA
	Panel Discussion

Day 2 June 20, 2017

Waterfront 4

Keynote Forum

08:30-08:55	**Title: Where is the charge located in multifunctional gaseous ions? A survey by Ion Mobility Mass Spectrometry** **Athula Attygalle,** Stevens Institute of Technology, USA
08:55- 09:20	**Title: Root causes of LC/MS data variability** **Eduard Rogatsky,** Wadsworth Center, USA
09:20-09:45	**Title: Tropospheric multiphase chemistry elevated by diverse mass-spectrometric techniques** **Jianmin Chen,** Fudan University, China

09:45-10:10	**Title: Inverse problems in Mass Spectrometry and Bayesian solutions** **Ali Mohammad-Djafari,** CNRS, France
	Networking & Refreshments 10:10-10:20 @ Foyer
Sessions: Applications of Mass Spectrometry | Recent Advances and Development in Mass Spectrometry | Hyphenated Techniques | Spectroscopy	
Session Chair: Yang Pan, University of Science and Technology of China, China **Session Co-chair: Joanna Fiedor,** AGH-University of Science and Technology, Poland	
	Session Introduction
10:20-10:40	**Title: Reviews of organic-assisted dissolution method to enhance the quantitative Analysis for the determination of hexavalent chromium (Cr(VI)) in polymer** **Youn Sung Kim,** Samsung SDI, Republic of Korea
10:40-11:00	**Title: On-line photoionization mass spectrometry and its applications on catalysis, pyrolysis and matrices analysis** **Yang Pan,** University of Science and Technology of China, China
11:00-11:20	**Title: Compact laser mass spectrometer for technological analysis of solids** **Violetta V Milyaeva,** National Research Nuclear University MEPhI, Russia
11:20-11:40	**Title: Multielemental speciation analysis of five toxic species: As(III), As(V), Cr(VI), Sb (III) and Sb(V) in drinking water samples by advanced hyphenated technique HPLC/ICP-DRC-MS** **Danuta Barałkiewicz,** Adam Mickiewicz University in Poznań, Poland
11:40-12:00	**Title: Catalysis by design: From conventional solid state NMR spectroscopy to the dynamic nuclear polarization surface enhanced spectroscopy-The success story of single site well-defined heterogeneous catalysts** **Anissa Bendjeriou-Sedjerari,** King Abdullah University of Science and Technology, Saudi Arabia
12:00-12:20	**Title: Total reflection X-ray fluorescence spectrometry (TXRF) as a convenient tool for quantification of biological samples** **Joanna Fiedor,** AGH-University of Science and Technology, Poland
	Lunch Break 12:20-13:10 @ Restaurant
Sessions: Fundamentals of Mass Spectrometry | Ionization Techniques	
Session Chair: K W Michael Siu, University of Windsor, Canada **Session Co-chair: Xinhua Guo,** Jilin University, China	
	Session Introduction
13:10-13:30	**Title: Discovery and mechanistic studies of an unusual remote radical-induced side-chain loss from tyrosine-containing peptide radical cations in the gas phase** **Chi-Kit Andy Siu,** City University of Hong Kong, Hong Kong
13:30-13:50	**Title: Isomerization versus dissociation of phenylalanyl glycyl tryptophan radical cations** **Ivan K Chu,** University of Hong Kong, Hong Kong
13:50-14:10	**Title: Gas-phase dehydration of protonated polyglycines** **K W Michael Siu,** University of Windsor, Canada
14:10-14:30	**Title: Helix MC Plus high resolution noble gas mass spectrometer at the Australian National University** **Xiaodong Zhang,** The Australian National University, Australia
14:30-14:50	**Title: Unusual peptide fragment ions in low-energy CID process by charge-remote fragmentation pathways** **Xinhua Guo,** Jilin University, China
14:50-15:10	**Title: The key parameters impacted surface-assisted laser desorption/ionization-mass spectrometry** **Yuliya E Silina,** INM-Leibniz Institute for New Materials, Germany
15:10-15:30	**Title: Molecular ion collision chemistry in CH4 ionization and dissociation** **A T Hasan,** American University of Sharjah, UAE

15:30-15:50	**Title: Distributions of nicotine and cotinine in rat tooth, alveolar bone and brain and their impacts on dental health** **Yong-Xi Li**, Medpace Bioanalytical Laboratories, USA
15:50-16:10	**Title: An application of HRMS QTOF in the routine analysis of veterinary drug residues** **Radostina K Manova**, Netherlands Food and Consumer, Product Safety Authority, Netherlands
	Networking & Refreshments 16:10-16:30 @ Foyer
	Poster Presentaions @ 16:30-18:00 @ Foyer
EMS001	**Title: Structural characterization of two dihydrobiopterin tautomers as oxidation intermediates of tetrahydrobiopterin** **LO Aurélien**, University of Paris Saclay, France
EMS002	**Title: Automated open-access liquid chromatography high resolution mass spectrometry to support medicinal chemistry projects** **Alberto Fontana**, Janssen Research & Development, Spain
EMS003	**Title: Determination of ultra-trace level of Pu isotopes in seawater sample using multi collector inductively coupled plasma mass spectrometry (MC-ICP-MS)** **Inhee Choi**, Korea Institute of Nuclear Safety, South Korea
EMS004	**Title: Quantitative estimation of alcohol marker ethylglucuronide (EtG) in human hair by LC-MS/MS: Application towards doping control & forensic science** **Kapendra Sahu**, National Dope Testing Laboratory, India
EMS005	**Title: Top-down analysis of a FMN-binding membrane protein (FMP) using a multiplexing FTMS data workflow combined with an in-house web-free access ChemInfo.org tool** **Laure Menin**, ISIC-GE, Switzerland
EMS006	**Title: Quantitative determination of sulfisoxazole and its three N-acetylated metabolites using HPLC–MS/MS, and the saturable pharmacokinetics of sulfisoxazole in mice** **Minsoo Kim**, Chung-Ang University, South Korera
EMS007	**Title: A metabolomic study of Wolfram syndrome 1** **Rando Porosk**, University of Tartu, Estonia
EMS008	**Title: Indicating/Quantifying Oxidative Stress Response to Exercise Stimuli** **Taghreed Fagieh**, Loughborough University, UK
EMS009	**Title: Determination of metabolites from Gynostemma pentaphyllum in rat urine and faeces by HPLC-MS** **Xiang-Lan Piao**, Minzu University of China, China
EMS010	**Title: Simultaneous quantification of eight active flavonoids constituents in Gleditsiae Spina by high-performance liquid chromatography coupled with electrospray ionisation tandem mass spectrometry** **Tiejie Wang**, Shenzhen Institute for Drug Control, China
EMS011	**Title: Use of MALDI-ToF Mass Spectrometry for Analyzing Latent Fingerprints** **Mustafa Hussain Kathawala**, Nanyang Technological University, Singapore
EMS012	**Title: Fragment screening against the EthR-DNA interaction by native mass spectrometry** **Daniel Chan**, University of Cambridge, UK
EMS013	**Title: UPLC-MS method for the simultaneous determination of phenolic constituents in honey using multi-walled carbon nanotubes as solid phase sorbents** **Zeid Abdullah Alothman**, King Saud University, Saudi Arabia
EMS014	**Title: Screening new urine biomarkers of IgA nephropathy by proteomics** **Yang Lu**, State Key Laboratory of Kidney Diseases, China
EMS015	**Title: Application of ion-paring injection-port derivatization GC-MS to detect phenolic endocrine disruptors in human urine** **Wang-Hsien Ding**, National Central University, Taiwan

EMS016	**Title: Identification of 4-mercapto-4-methylpentan-2-one as the characteristic aroma of sake made from low-glutelin rice** **Sachiko Iizuka,** National Research Institute of Brewing, Japan
EMS017	**Title: New method for comprehensive detection of trace elements in environmental or biochemical materials using an electron-cyclotron-resonance ion-source mass spectrometer** **Kazuya Takahashi,** RIKEN, Japan
EMS018	**Title: Heavy metal concentrations in different tissues of marine benthic crab Metapograpsus messor inhabiting mangrove, north Kosseir, Hurghada, Red Sea.** **AbdAllah A T,** Jazan University, KSA

Panel Discussion

Day 3 June 21, 2017

Sessions: Applications of Mass Spectrometry | Recent Advances and Development in Mass Spectrometry Hyphenated Techniques

Session Chair: Yi-Ting Chen, Chang Gung University, Taiwan
Session Co-chair: Sanjeeva Srivastava, Indian Institute of Technology Bombay, India

Session Introduction

09:30-09:50	**Title: Automated open-access liquid chromatography high resolution mass spectrometry to support medicinal chemistry projects** **Alberto Fontana,** Janssen Research & Development, Spain
09:50-10:10	**Title: Review on validation of liquid chromatography–mass spectrometry methods** **Ivo Leito,** University of Tartu, Estonia
10:10-10:30	**Title: Discovery and validation of biomarkers for gliomas using mass spectrometry based quantitative and targeted proteomics** **Sanjeeva Srivastava,** Indian Institute of Technology Bombay, India
10:30-10:50	**Title: Clinical proteomics for biomarker discovery and verification of bladder cancer** **Yi-Ting Chen,** Chang Gung University, Taiwan
10:50-11:10	**Title: Explorations into isomeric peptides of opposite directionalities by tandem mass spectrometry** **Dinkar Sahal,** International Centre for Genetic Engineering and Biotechnology (ICGEB), India

Networking & Refreshments 11:10-11:20 @ Foyer

Sessions: Applications of Mass Spectrometry | Mass Spectrometry Imaging | Mass Spectrometry in Toxicology

Session Chair: Nives Galić, University of Zagreb, Croatia
Session Co-chair: Pedro José Sanches Filho, Instituto Federal Sul-rio-grandense, Brazil

Session Introduction

11:20-11:40	**Title: Analytical aspects and biomedical applications of selenium speciation** **Nikolay Solovyev,** Saint Petersburg State University, Russia
11:40-12:00	**Title: Structural investigation of organic compounds and their complexes by ESI MS/MS** **Nives Galić,** University of Zagreb, Croatia
12:00-12:20	**Title: GC/MS application in the determination of lipids in archaeological artifacts samples** **Pedro José Sanches Filho,** Instituto Federal Sul-rio-grandense, Brazil
12:20-12:40	**Title: Mass spectrometry diagnostics in highly ionized plasma: a key tool to optimize the sputtering process and the film growth** **Julien Keraudy,** University of Nantes, France
12:40-13:00	**Title: Novel approach for the determination by HPLC-MS/MS of microcystins LR, LY, LA, YR, RR, LF, LW, and nodularin in lake water and crops** **Gianluca Trifirò,** Experimental Zooprophylactic Institute of Puglia and Basilicata Regions, Italy

Lunch Break 13:00-13:50 @ Restaurant

Sessions: Applications of Mass Spectrometry | New Approaches in Mass Spectrometry

Session Chair: Lingzhi Gong, Queen Mary University of London, UK
Session Co-chair: R K Vatsa, Bhabha Atomic Research Centre, India

Session Introduction

13:50-14:10	**Title: Affinity labeling studies and mass spectrometric analyses on human 80S or *E. coli* 70S ribosomes reveal how the ribosomes translate cancer** **Codjo Hountondji,** University Pierre et Marie Curie (Paris 6), France
14:10-14:30	**Title: Photoionization of nanoclusters: Collisional heating of confined electrons** **R K Vatsa,** Bhabha Atomic Research Centre, India
14:30-14:50	**Title: Analysis of oligonucleotides by ion-pair hydrophilic interaction liquid chromatography/ electrospray ionization mass spectrometry** **Lingzhi Gong,** Queen Mary University of London, UK
14:50-15:10	**Title: Proteomic analysis of anti-photoaging activity of the acetylated and amidated peptide GMCCSR** **Xuewu Zhang,** South China University of Technology, China
15:10-15:30	**Title: Proteomic Approaches to Identify the Mechanism of rapid progression of Alzheimer's Disease** **Saima Zafar,** University Medical Center Goettingen(UMG), Germany
15:30-15:50	**Title: From ESI to APCI, MMI and APPI, complications of adduct ions on MRM at different LC-MS/MS ionization techniques** **Wenjie Cao,** SABIC Technology and Innovation Center, Saudi Arabia
15:50-16:10	**Title: The assessment of the exposure levels of mycotoxins among dairy cattle in the two South African provinces using HPLC (ESI)-MS/MSn** **Makhapa Makhafola,** Mintek, South Africa
16:10-16:30	**Title: Investigating the conformation of alkalized leucine-enkephalin complex by H/D exchange and theoretical calculations.** **Chaun-Fan Ding,** Fudan University, China

Networking & Refreshments 16:30-16:40 @ Foyer

16:40-17:00	**Title: Adipose tissue and adipokines as promising therapeutic targets for obesity-associated cardiovascular and metabolic diseases** **Yu Wang,** The University of Hong Kong, Hong Kong, China
17:00-17:20	**Title: Mass spectrometry as a powerful spectroscopic tool for the structural identification of natural phenolic compounds and their reaction products** **Nour Eddine ES-SAFI,** Mohammed V University of Rabat, Morocco
17:20-17:40	**Title: Laser ablation inductively coupled plasma mass spectrometry for quantitative imaging of elements in ferromanganese nodule** **Miho Tanaka,** Tokyo University of Marine Science and Technology, Japan
17:40-18:00	**Title: Molecularly imprinted micro- and nano-materials for direct protein MALDI-TOF MS analysis** **Alessandra Maria Bossi,** University of Verona, Italy
18:00-18:20	**Title: Alkali containing molecular ions in SIMS: Understanding of the emission phenomena** **Purushottam Chakraborty,** Saha Institute of Nuclear Physics, India
18:20-18:40	**Title: Isotope analysis of sulfur, bromine and chlorine in individual anionic species by ion chromatography/multi-collector-ICPMS** **Yevgeni Zakon,** Hebrew University of Jerusalem, Israel

Award & Closing Ceremony