



SCIENTIFIC PROGRAM

11th International Conference on Mass Spectrometry & Separation Techniques

**December 19-20, 2025, Dubai, UAE & Virtual
(Hybrid Event)**

Scientific Meditech

61 Bridge Street, Kington HR53DJ, UK

Phone: +44- 1549360037

Email: massspectrometry@scientificmeditech.com

Mass Spectrometry 2025

<https://massspectrometry.scientificmeditech.com/>

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Timing: 10:30 AM

Time Zone: GMT+0, London, UK

December 19, 2025

Opening Ceremony

10:30 -10:35 AM

Keynote Session

10:35-11:00	Title: EPS production by Lacticaseibacillus Casei using Glycerol, Glucose, and Molasses as Carbon Sources
	Guilherme Deomedesse Minari , Institute of Biosciences, Brazil
11:00-11:25	Title: Sampling Ostreopsis cf. ovata along Campania coasts (Italy). An unprecedented combination of sample treatment and LC-MS to mitigate health risks associated to ovatoxins in seawater
	Dr. Chiara Melchiorre, University of Naples Federico II, Italy
11:25-11:50	Title: Mass spectrometry-based lipidomics and proteomics uncovered neuroprotection signaling in stroke, age-related macular degeneration, and Alzheimer's disease (AD)
	Nicolas G. Bazan , Neuroscience Center of Excellence, Health Sciences Center, USA
11:50 - 12:15	Title: Use of Artificial Intelligence (AI) Methods for the Identification of Individual Compounds in a Mixture of Compounds Eliminating the Need for Separation Techniques
	Jerry Darsey, University of Arkansas at Little Rock, USA

Plenary Speaker Session

Sessions	Aplication of Mass Spectrometry Recent Advances and Development in Mass Spectrometry Mass Spectrometry Imaging Inorganic Technique Chromatography
Session Chairperson	Virginija Vilkelyte, University of Exeter Medical School, University of Exeter, UK
12:15 - 12:40	Title: The Potential of Helichrysum splendidum (Thunb.) Less. for the Restoration of Sites Polluted with Coal Fly Ash
	Alexis Munyengabe, University of Technology, South Africa
12:40 - 13:05	Title: Helichrysum populifolium compounds inhibit MtrCDE efflux pump transport protein for the potential management of gonorrhoea infection
	Vhangani Evangeline Mulaudz, University of Pretoria, South Africa
13:05 - 13:30	Title: Challenges and Advances in Magnetic Nanoparticle-Guided Delivery of Cultured Human Corneal Endothelial Cells—A Review

	Virginija Vilkelyte, University of Exeter Medical School, University of Exeter, UK
13:30-13:55	<p>Title: Advancements in Cellular Imaging: Expanding Horizons with Innovative Dyes and Techniques</p> <p>Payal M. Oak, Faculty of Science, Masaryk University, Czech Republic</p>
13:55-14:20	<p>Title: Rapid Detection of Aspergillus spp. and Quantitative Simultaneous Analysis of Aflatoxins (B1, B2, G1 and G2) in Kenyan Hybrid Maize Cultivars Using FT-IR and LC ESI-MS/MS Spectro-analysis Techniques</p> <p>Grace Gachara, Sokoine University of Agriculture, Tanzania</p>
14:20 - 14:45	<p>Title: Wave-Particle Interactions in the fluid dynamics of the Solar Wind</p> <p>Héctor Pérez de Tejada, Institute of Geophysics, UNAM, Mexico</p>
14:45-15:10	<p>Title: Action mechanisms of exosomes derived from GD3/GD2-positive glioma cells in the regulation of phenotypes and intracellular signaling: Roles of integrins</p> <p>Mohammad Abul Hasnat, Shahjalal University of Science and Technology, Bangladesh</p>
15:10-15:30	Refreshment Break
Poster Presentation Session (15:30-18:30)	
P001	<p>Title: Heavy Water Microdroplet Surface Enriches the Lighter Isotopologue Impurities</p> <p>Abhijit Nandy, Department of Chemistry, IISER Tirupati, India</p>
P002	<p>Title: Guava Leaf Essential Oil as a Potent Antioxidant and Anticancer Agent</p> <p>Ashok Kumar Mandal, Natural Product Research Laboratory, Nepal</p>
P003	<p>Title: Exploring Serum Proteome Signatures in Congenital Hearing Loss Using Mass Spectrometry</p> <p>Lucky Thakkar, Thakkar Consultancy Services, India</p>
P004	<p>Title: MSProfileR: An Open-Source Software for Quality Control of Matrix-Assisted Laser Desorption Ionization-Time of Flight Spectra</p> <p>Refka Ben Hamouda, Aix Marseille University, Marseille, France</p>
P005	<p>Title: Biodiversity, application of bioenergy for energy systems or materials and environmental sustainability: Sustainable energies future perspective through energy efficiency development</p> <p>Abdeen Mustafa Omer, Energy Research Institute, UK</p>
P006	<p>Title: Taxonomic Exploration of Healthcare IoT: Challenges, Solutions, and Future Frontiers</p> <p>Lutifa Alashlam ,Higher Institute of Science and Technology, Libya</p>
P007	<p>Title: Insights into the Adsorption of Cr(VI) on Activated Carbon Prepared from Walnut Shells: Combining Response Surface Methodology with Computational Calculation</p> <p>Hicham Yazid, Université Sultan Moulay Slimane, Morocco</p>
P008	<p>Title: Numerical solution of heat and mass transfer using buongionro nanofluid model through a porous stretching sheet impact of variable magnetic, heat source, and temperature conductivity</p> <p>Zeeshan, Bacha Khan University Charsadda, Pakistan</p>

End of Session

Closing Ceremony & Award Ceremony

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