

SCIENTIFIC PROGRAM

11th International Conference on Mass Spectrometry & Separation Techniques

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

Scientific Meditech

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Mass Spectrometry 2025

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

Scientific Program

Mass Spectrometry 2025

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

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

End of Session

Closing Ceremony & Award Ceremony

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