



METRIC MASS SPECTROMETRY SYMPOSIUM

2022

TIME	TITLE	PRESENTER
8:00am-8:45am	Breakfast and Coffee Provided	
8:45am-9:00am	Opening Comments	David Muddiman
9:00am-9:40am	Mass Spectrometry Imaging for Surgical Pathology and Drug Development	Nathalie Agar
9:40am-10:00am	Mapping Tissue Function Using Mass Spectrometry Imaging	Michael Gamcsik
10:00am-10:05am	Detection and quantitation of glycans released from NIST mAb using LC-IM-QTOF	Jeffrey Enders
10:05am-10:10am	Non-Targeted Analysis of Drinking Water Samples Collected from Homes Linked to a Virginia ALS Cluster	Whitney Stutts
10:10am-10:15am	Proteomic Signature of Carotenoids in Gut Health	Taufika Islam Williams
10:15am-10:20am	PFAS Identified In Wilmington NC Sea Foam via an Untargeted Approach Using High Resolution Mass Spectrometry	Rebecca Weed
10:20am-10:25am	Untargeted metabolomics workflow for intestines of developing Xenopus embryo	Yu-Chun Chiu
10:25am-10:30am	Statistical Approach to System Suitability Testing (SST) for Mass Spectrometry Imaging by Infrared Matrix-Assisted Laser Desorption Electrospray Ionization (IR-MALDESI)	Olivia Dioli

TIME	TITLE	PRESENTER
10:30am-10:35am	Next-Generation Infrared Matrix-Assisted Laser Desorption Electrospray Ionization Source for Mass Spectrometry Imaging and High-Throughput Screening	Kevan Knizner
10:35am-10:40am	Modified Optical Path for Improved NextGen IR-MALDESI Mass Spectrometry Imaging	Alena Joignant
10:40am-11:05am	Break	
11:05am-11:45am	Elucidating the roles of Glycans in Health and Diseases	Carlito Lebrilla
11:45am-12:05pm	The use of LC-MS/MS with DIA to study metformin effect on whole-body lipid metabolism	Xiaojing Liu
12:05pm-12:15pm	ThermoFisher Sponsored Talk	David Kusel
12:15pm-1:00pm	Lunch	
1:00pm-2:00pm	Tour of METRIC labs	
2:00pm-2:40pm	Two edges of precision medicine: therapies and diagnostics	Jennifer Van Eyk
2:40pm-2:50pm	Agilent Sponsored Talk	John Sausen
2:50pm-2:55pm	Disulfiram Induces Cysteine-Cysteine Crosslinks in TAR DNA Binding Protein 43 kDa	Leonard Collins
2:55pm-3:00pm	Prioritize biologically relevant ions for data-independent acquisition (BRI-DIA) in LC-MS/MS-based lipidomics analysis	Grace Scheidemantle

TIME	TITLE	PRESENTER
3:00pm-3:05pm	Interrogating the Metabolome of Amyotrophic Lateral Sclerosis in Post-Mortem Human Brain by Infrared Matrix-Assisted Laser Desorption Electrospray Ionization MSI	Alexandria Sohn
3:05pm-3:10pm	Lipidomic Analysis of Mouse Brain to Evaluate the Efficacy and Preservation of Different Tissue Preparatory Techniques by IR-MALDESI MSI	Mary Wang
3:10pm-3:15pm	Evaluating Native Centroid Data Collection for IR-MALDESI Mass Spectrometry Imaging	Russell Kibbe
3:15pm-3:20pm	Optimization of the quasi-continuous IR-MALDESI source coupled to a Q-TOF mass spectrometer for direct analysis from well plates	Cristina Arciniega
3:20pm-3:25pm	Automatic Z Adjustment for IR-MALDESI Mass Spectrometry Imaging on Nonflat Surfaces	Ying Xi
3:25pm-3:30pm	Development of a quantitative method for microcystins in oysters	Daniel Krakko
3:30pm-3:45pm	Break	
3:45pm-4:05pm	Combining Multi-Omics Integration and CRISPR Genome Editing in Poplar for Sustainable Fiber Production	Jack Wang
4:05pm-4:15pm	Closing Remarks	David Muddiman

*Thank you for attending the 2022 METRIC Mass Spectrometry Symposium!
We would like to thank all our presenters for their hard work and effort towards
putting this program together.*

Thank you to our sponsors!

