

2023 AAMSDG Symposium  
 October 20, 2023  
 Marcus Nanotechnology Building, Georgia Tech, Atlanta, GA

Time	Name	Full affiliation	Institution	Advisor	Topic
<b>8-10 am: Breakfast</b>					
9-9:15 am	Pritha Bagchi, PhD	Associate Director, Research Projects Program Coordinator, AAMSDG	Emory Integrated Proteomics Core Emory University		Welcome remarks
9:15-10:15 am	Keynote Speaker: Vicki Wysocki, PhD	Ohio Eminent Scholar of Macromolecular Structure and Function, Director Campus Chemical Instrument Center Department of Chemistry and Biochemistry	Ohio State University		Native Mass Spectrometry: A Structural Biology Tool
<b>10:15-10:45 am: Coffee break</b>					
10:45-11am	Blaine Roberts, PhD	Associate Professor	Emory University School of Medicine		Revealing the hidden role of metalloproteins and isomeric post translational modifications in neurodegenerative diseases
11-11:15 am	Daniel Vallejo, PhD	Postdoctoral Scholar	Georgia Institute of Technology	Facundo Fernández, PhD	Unlocking the Structural Information for Proteins Relevant to Cultural Heritage with Native and Top-Down Mass Spectrometry.
11:15-11:30 am	Christine Bowen	Graduate Student	Emory University School of Medicine	Srikant Rangaraju, PhD	Microglial Kv1.3 channel regulation of immune response in Alzheimer's Disease models.
11:30-11:45 am	Kejun Yin	Graduate Student	Georgia Institute of Technology	Ronghu Wu, PhD	Global quantification of newly synthesized proteins reveals cell type-and inhibitor-specific effects on protein synthesis inhibition
11:45 am-12 pm	Ananth Shantaraman	Sr. Data Analyst	Emory University School of Medicine	Nicholas Seyfried, PhD	Improved detection of peptides through inclusion of semi-enzymatic peptide cleavages and off-target tandem mass tag reagent interactions in proteomics searches
12-12:15 pm	William Perry, PhD	Research Chemist	Centers for Disease Control and Prevention	Alicia Lyle, PhD	Quantitative LC-MS as a solution to sequence homology challenges in clinical measurements of proteins and peptides
12:15-12:30 pm	Douglas Walker, PhD	Associate Professor	Rollins School of Public Health Emory University		Establishing an analytical base to support large-scale exposome epidemiology
<b>12:30-1:30 pm: Lunch</b>					
1:30-1:45 pm	Carter Asef	Graduate Student	Georgia Institute of Technology	Facundo Fernández, PhD	TENG for the Masses: A Low-cost Triboelectric Ion Source for Lipid Double Bond Localization and Other Nanoelectrospray Applications
1:45-2 pm	Ying Liu, PhD	Staff, Systems Mass Spectrometry Core	Georgia Institute of Technology		Lipidome Profile of Human Muscle Tissues with Diabetic Ulcer
2-2:15 pm	Mehrnoush Taherzadeh Ghahfarrokhi	Graduate Student	University of Georgia	Parastoo Azadi, PhD	Development and Comparison of Methods for Identification and Quantification of Glycosphingolipids (GSLs)
2:15-2:30 pm	Nicole Aiosa	Graduate Student	Georgia Institute of Technology	Neha Garg, PhD	Whole-cell MALDI-TOF MS coupled with untargeted metabolomics facilitates investigations of microbial chemical interactions
<b>2:30-3 pm: Coffee break</b>					

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3-3:15 pm	Weimao Zhong, PhD	Postdoctoral Fellow	Georgia Institute of Technology	Vinayak Agarwal, PhD	LCMS-guided Discovery, Structural Characterization, and Biosynthesis of Ureido Peptidic Natural Products from Marine Microbulbifer spp. Bacteria
3:15-3:30 pm	Kirsten Cottrill, PhD	Contractor	Battelle at Centers for Disease Control and Prevention		Microcystin Detection and Identification in Algae by High Resolution Mass Spectrometry
3:30-3:45 pm	Johnny Sentmanat	Graduate Student	Georgia Institute of Technology	Andrei Fedorov, PhD	Sub-Cellular Resolution Biochemical Imaging Technique Combining Electron Microscopy and Mass Spectrometry
3:45-4 pm	Manju Maman, PhD	Postdoctoral Fellow	Georgia State University	Xuefei Li, PhD	Mass spectrometric investigation of the influence of exogenous ligands on the transformation of thiolate-protected gold nanoclusters
4-4:15 pm	Kayla Adcock	Graduate Student	University of Georgia	Franklin Leach III, PhD	In-containment Orbitrap mass spectrometry analysis of proteomic changes during SARS-CoV-2 infection in a Syrian golden hamster ( <i>Mesocricetus auratus</i> ) model
4:15-4:30 pm	Elijah Roberts	Graduate Student	University of Georgia	Jon Amster, PhD	Developing new mass spectrometric strategies for assigning heavy isotope enrichment in glycoproteins
<b>4:30-6 pm: Poster &amp; reception</b>					