

2024/25 AAMSDG Symposium

March 28, 2025

Marcus Nanotechnology Building, Georgia Tech, Atlanta, GA

Time	Name	Full affiliation	Institution	Advisor	Abstract Title
8-10 am: Breakfast					
9-9:15 am					Welcome remarks
9:15-10:15 am	Keynote Speaker: Jeffrey Spraggins, Ph.D.	Associate Professor, Cell and Developmental Biology Director, VU Biomolecular Multimodal Imaging Center Mass Spectrometry Research Center	Vanderbilt University		From Molecules to Maps: Technologies for Building Molecular Atlases with Mass Spectrometry
10:15-10:45 am: Coffee break					
10:45-11am	Joseph Corstvet	Graduate Student	Georgia Institute of Technology	Facundo Fernández, PhD	Triboelectric Nanogenerator Plasma Ionization for Mobile VOC Analysis
11-11:15 am	Tala Azzam	Graduate Student	Emory University	Eric Sundberg	Asymmetrical glycosylation is a prevalent feature of human IgGs
11:15-11:30 am	Alex Doty	Graduate Student	Georgia Institute of Technology	Neha Garg	Effects of Deoxygenation and Acidification on Acropora Cervicornis of Different Genotypes
11:30-11:45 am	Joshua Chandler	Assistant Professor Department of Pediatrics	Emory University		Early life elevations of methionine oxidation and ornithine track and predict cystic fibrosis structural lung disease
11:45 am-12 pm	Fnu Vidya	Graduate Student	Georgia Institute of Technology	Vinayak Agarwal	A genomic-guided approach for enzymatic construction of post- translationally modified peptidic natural product
12-12:15 pm	Caroline M. Watson	Director, Research Projects	Emory University		Targeted proteomic analysis of 3R and 4R tau in marmoset and human brain tissue
12:15-12:30 pm	Ying Liu	Faculty	Georgia Institute of Technology	David Gaul	Minimizing Presence of Salt in Sample Preparation Reduces Complexity in
12:30-1:30 pm: Lunch					

Time	Name	Full affiliation	Institution	Advisor	Topic
1:30-1:45 pm	Lester Manly	Graduate Student	Emory University	Blaine R. Roberts	Efficient electron capture dissociation for discovery top-down proteomics on chromatographic timescales with a LC-ECD-Q-TOF system
1:45-2 pm	Elisabeth Schwiebert	Graduate Student	Georgia Institute of Technology	Facundo Fernández, PhD	Simultaneous Quantitation and Discovery (SQUAD) Liquid Chromatography Mass Spectrometry of Progesterone Steroids Relevant to Ovarian Cancer
2-2:15 pm	Paul Branham	Graduate Student	Georgia Institute of Technology	Vinayak Agarwal	Halogenation of Aminothiazoles and new Biosynthetic pathways
2:15-2:30 pm	Kimmy Thai	Graduate Student	University of Georgia	Ron Orlando	Using High-Resolution Ion Mobility for the Separation and Identification of α -Gal containing glycans from their non- α -Gal isomers
2:30-3 pm: Coffee break					
3-3:15 pm	Catherine Mullins	Research Specialist	Emory University	Douglas Walker	Developing a high-throughput workflow for large-scale exposome epidemiology
3:15-3:30 pm	Xing Xu	Graduate Student	Georgia Institute of Technology	Ronghu Wu	Systematic Investigation of the Trafficking of Glycoproteins on the Cell Surface
3:30-3:45 pm	Sarah Kingsley	Graduate Student	Georgia Institute of Technology	Thomas Orlando	VOC Analysis of Spaceflight-Relevant Microorganisms
3:45-4 pm	Devesh Pant	Faculty	Emory University		Sphingolipid Dysregulation in Juvenile ALS
4-4:15 pm	Daniel Hicks	Graduate Student	Georgia Institute of Technology	Neha Garg	Using non-targeted metabolomics to characterize the protective effects of airway probiotics against <i>Burkholderia Thailandensis</i> infection

4:15-4:30 pm	Longping Fu	Graduate Student	Georgia Institute of Technology	Ronghu Wu	Chemical Proteomics for Unraveling the Crosstalk between Protein O- GlcNAcylation and N-Glycosylation in Human Cells
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4:30-6 pm: Poster & reception
