

# 2024 Mid-South Glycoscience Meeting

Wednesday, July 10, 2024

## Oral Presentations Schedule

8:00 a.m.	Thomas Werfel	Welcome
<b>Session 1 - Computational Glycoscience</b>		
8:10 a.m. - 8:55 a.m.	Robert Woods	<i>Understanding the origin of glycoform diversity as a function of glycoprotein shape</i>
8:55 a.m. - 9:15 a.m.	Rene Ranzinger	<i>GlyGen: Computational and Informatics Resources for Glycoscience</i>
9:15 a.m. - 9:35 a.m.	Sushil Mishra	<i>Challenges in the Calculation of Lectin-Glycan Binding Energy Using Umbrella Sampling Simulations</i>
9:35 a.m. - 9:55 a.m.	Amin Akbari Ahangar	<i>Pore-Facing Glycosylation on <math>\alpha 1</math> Subunit of GABAA Receptor Effects Channel Activity.</i>
9:55 a.m.	Break	
<b>Session 2 - Glycomaterials and Drug Delivery</b>		
10:10 a.m. - 10:45 a.m.	Greg Hudalla	<i>Advancing Biotherapeutic Delivery with Supramolecular Glycobiology</i> <i>Poster Highlight: Glycopolymeric Nanoparticles Enrich a Less Immunogenic Protein Corona and Improve Tumor Delivery Compared to PEGylated Nanoparticles</i>
10:45 a.m. - 10:55 a.m.	Kenneth Hulugalla	<i>Sugar-Based Ionic Liquids for Targeted Delivery to Triple Negative Breast Cancer Cells.</i>
10:55 a.m. - 11:15 a.m.	Gaya Dasanayake	<i>Poster Highlight: Chemoenzymatic Synthesis of Glycosylated and Sulfated N-Terminal Peptides of CCR5</i>
11:15 a.m. - 11:25 a.m.	Mustafa Ali Eldeen	
11:25 a.m.	Lunch Break	
12:15 p.m.	Poster Session	<i>Located in the TCRC Atrium</i>
<b>Session 3 - Carbohydrate Synthesis and Analysis</b>		
1:15 p.m. - 2:00 p.m.	Stephen Withers	<i>High-throughput screening of metagenomic libraries for enzymes of novel mechanism identifies a new glycan degradation pathway of extraordinarily broad substrate specificity</i>
2:00 p.m. - 2:35 p.m.	Melanie Higgins	<i>Carbohydrate-active enzyme discovery</i>
2:35 p.m. - 2:55 p.m.	Christa Feasley	<i>Electron activated dissociation (EAD)-based MS/MS fragmentation for identification and characterization of hydrophilic interaction chromatography (HILIC) enriched glycopeptides</i>
2:55 p.m. - 3:05 p.m.	Amena Begum	<i>Poster Highlight: Synthesis of Difluorinated Carbohydrate Intermediates for Developing Difluorinated C-Glycosyl Derivatives in Drug Discovery</i>
3:05 p.m.	Break	
<b>Session 4 - Glycobiology</b>		
3:20 p.m. - 3:55 p.m.	Tania Lupoli	<i>Activation and Incorporation of Rare Sugars into Bacterial Surfaces</i>
3:55 p.m. - 4:05 p.m.	Sherilynn Hulugalla	<i>Poster Highlight: Role of AGE/RAGE Signaling as a Driver of Pathological Aging in the Brain. (Presented by James Stewart)</i>
4:05 p.m. - 4:25 p.m.	Joelle Saad	<i>ST6Gal1 mediated <math>\alpha 2,6</math> sialylation modulates GLUT3 dynamics regulating GBM metabolism</i>
4:25 p.m. - 4:35 p.m.	Tzu-Yu Huang	<i>Poster Highlight: Development of non-nucleoside small molecule inhibitors of MraY (Presented by Sudeshna Roy)</i>
4:35 p.m.	Thomas Werfel	Closing Remarks