SFG 2026 Annual Meeting
Monday Poster Board Assignments – November 9
Poster Session I | 4:00–5:30 PM | Sorted by Poster Number

Poster Number	Poster Title	Poster Presenter	Institution Affilliation
BM-1	Profiling of O-fucose proteome of POFUT1 and POFUT2 using 6-alkynyl fucose	Huilin Hao	Complex Carbohydrate Research Center, University of Georgia
BM-2	Streamlining the use of human lectins for immunological assays and immunostaining	Yi-Chang Liu	Glycogenetics, Inc.
BM-3	Multiplexed Monitoring of Recombinant Protein Glycosylation Patterns	George Bendzunas	Lectenz Bio
BM-4	Towards gaining glycan topology understanding from glycoproteomics experiments	Xuyang Chen	Department of Chemical and Biological Engineering, School of Engineering and Applied Sciences, University at Buffalo, The State University of New York
BM-5	GlycoMsHelper: A High-Confidence Glycomic MS Data Interpretation Workflow	Weize Kong	The United Graduate School of Agricultural Science, Gifu University
BM-6	The Emory Glycomics and Molecular Interactions Core (EGMIC): Advanced Capabilities in Mass Spectrometry, Glycan Profiling, and Biomolecular Interactions	Yi Lasanajak	Emory Glycomics and Molecular Interactions Core
BM-7	Evaluating the Efficiency of Ionic Liquid Matrices as Performance Enhancers for High-Throughput MALDI-MS Glycan Analysis	Varughese Mulamoottil	University of Georgia
BM-8	Robust One-Step Method for Sulfation Level Characterization of Sulfated Heparin Oligosaccharides Using Trifluorodiazoethane	Chiranjeev Sharma	1Department of Medicinal Chemistry, Virginia Commonwealth University
BM-9	Complementary Distribution of Glycoconjugates Revealed by Multi-Enzyme MALDI Mass Spectrometry Imaging	Mehrnoush Taherzadeh Ghahfarro	Complex Carbohydrate Research Center (CCRC), University of Georgia
BM-10	Machine Learning-Assisted Surface-Enhanced Raman Spectroscopy for Quantitative Glycan Analysis	Aman Yadav	Artie McFerrin Department of Chemical Engineering, Texas A&M University
BM-11	Protein language model-based prediction of heparan sulfate binding proteins with HSBPFinder	Jacob Bedia	Washington University School of Medicine in Saint Louis
BM-12	Fine-tuning a Transformer Model for Glycan Structure Inference from Under-represented MS/MS Spectra	Rudiyanto Gunawan	Department of Chemical and Biological Engineering, University at Buffalo-SUNY
BM-13	Are N-Linked glycans intrinsically disordered?	Rajan Kandel	University of Georgia
BM-14	Connecting Diverse Glycan Data through Standardized Representations and Database Integration	Masaaki Matsubara	The Noguchi Institute
BM-15	Computational design of de novo Tn antigen-binding proteins using RFdiffusion and molecular dynamics simulations	Mohit Pareek	Department of Biomedical Engineering, University of Mississippi
BM-16	Registered but unreachable: what shared glycan identifiers do not resolve	Issaku Yamada	The Noguchi Institute
BM-17	Interactive Exploration of Protein Sequence Embedding Spaces	Austin Downes	School of Computing, University of Georgia
BM-18	EP- and USP-Compliant Separation of Fluorodeoxyglucose from Fluorodeoxymannose and Chlorodeoxyglucose by Anion Exchange Chromatography with Pulsed Amperometric Detection	Vanessa Abercrombie	Thermo Fisher Scientific
BM-19	Differential effects of testosterone deprivation and androgen receptor inhibition on endothelial glycocalyx integrity in prostate cancer	Naoki Fujita	Hirosaki University Graduate School of Medicine
BM-20	Serum N-glycan profiling as a potential biomarker for biopsy-proven rejection after living-donor kidney transplantation	Takuma Narita	Department of Urology, Hirosaki University Graduate school of Medicine
BM-21	Frozen Oral Tissue Glycoproteomics for Cancer Biomarker Discovery	Anthony Velazquez Sainz	Translational Glycobiology Institute, Department of Cellular and Molecular Medicine, Herbert Wertheim College of Medicine, Florida International University
BM-22	Novel tools for spatial profiling of protein glycosylation in cancer biology	Shuhui Chen	Vector Labs

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BM-23	Dietary Fructose Directly Fuels N-Linked Glycosylation to Promote Colorectal Cancer Progression	Isaac Nathoo	Department of Medicine, New York University Langone Health
BM-24	Title: Novel artificial lectin derived from gut bacteria fused to Fc as a therapeutic for highly mannosylated targets	Adeela Ali	Emory University
BM-25	RUNX1 orchestrates glycocalyx structure in Colo205 colorectal cancer cells	Debora Andrade Silva	Department of Biochemistry, UT Southwestern Medical Center
BM-26	Overexpression of ST6GAL1 in Murine CRC leads to sialylation of GLUT1 and alters Metabolism	Meredith Johnson	University of Alabama at Birmingham, Department of Surgery
BM-27	HNK-1-Capped PTPRZ as a Diagnostic Biomarker and Therapeutic Target in Glioma	Shinobu Kitazume	Department of Clinical Laboratory Sciences, School of Health Sciences, Department of Clinical Laboratory Sciences, School of Health Sciences
BM-28	Glycan-Directed Chemoenzymatic Synthesis of Homogeneous Antibody–Drug Conjugates with Tunable Drug Loading	Natasha Owitipana	Department of Chemistry and Biochemistry, University of Maryland
BM-29	ST6GAL1 containing extracellular vesicle release is increased after chemoradiation in rectal cancer cell lines	Vivek Somasundaram	University of Alabama Birmingham
BM-30	Inhibition of ST6Gal2 Suppresses Tumorigenic Behavior in Neuroblastoma Cells	Laxmi Swami	University of Alabama at Birmingham
BM-31	ST6GAL1 Regulation of the Brain Tumor Initiating Cell Surface Proteome and Secretome	Anita Hjelmeland	1Department of Cell, Developmental and Integrative Biology, University of Alabama at Birmingham
BM-32	Blood glycan heterogeneity in healthy and disease human populations	Lauren Beatty	Biomedical Engineering, State University of New York
BM-33	Reduced Oligosaccharyltransferase Complex and N-Glycoproteins in Human Heart Failure: A Cross-Cohort Analysis	Aanya Kabra	Harvard Medical School and Massachusetts General Hospital
BM-34	Hydrogen peroxide mediates high mannose N-glycan expression on red blood cells.	Karina Ricart	University of Alabama at Birmingham
BM-35	Sex-Specific Regulation of Placental O-GlcNAc Transferase in Response to Maternal Stress	Elaine Schumacher	Department of Biochemistry, Medical College of Wisconsin
BM-36	Investigating the Downstream Effects of O-GlcNAc Transferase (OGT) in X- Linked Intellectual Disability	Jeffery Fairley	Complex Carbohydrate Research Center at The University of Georgia, Department of Biochemistry and Molecular Biology
BM-37	Preclinical Mouse Models of ATP6AP2-CDG Neurological and Hepatological Clinical Manifestations	Aflah Hanafiah	Children's Hospital of Philadelphia
BM-38	Identification of neurological deficits in PMM2-CDG mouse model recapitulating patient genotype	Alyssa Kniffin	Division of Genetic and Genomic Medicine, Children’s Hospital of Philadelphia
BM-39	Determining Novel Tissue Specific Regulators of O-mannosylation	David Steen	University of Georgia, Complex Carbohydrate Research Center
BM-40	Red Blood Cell Surface Engineering for Influenza Hemagglutination Using Synthetic Sialylated N-Glycans	Dahai Ding	University of Georgia
BM-41	Enzymatic Differentiation and Diversification of Multi-antennary N-Glycans Enabled by Naturally Occurring Moieties on Glycans as Novel Protecting Groups	Pengxi Chen	The Scripps Research Institute
BM-42	Synthesis of Sialy-Tn- Modified MUC1 Peptides for Lectin Studies	Stephanie Salterini	Florida Atlantic University
BM-43	A catch and release strategy for cell surface glycoproteomics with intact glycosite information	Emmajay Sutherland	University of Washington
BM-44	Preparative Separation of α2,3- and α2,6-Sialylated N-Glycans via Linkage-Specific Charge Modulation	Qing Zhang	Department of Biochemistry, Emory University School of Medicine
BM-45	Expanding the Substrate Scope of Galactose Oxidase for Chemoenzymatic Glycoconjugate Vaccine Synthesis	Aidan Keelaghan	Emory University School of Medicine

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BM-46	Glycopolymers enrich less immunogenic nanoparticle protein corona and improve tumor delivery compared to Poly(ethylene glycol)	Thomas Werfel	University of Mississippi
BM-47	Human milk oligosaccharide degradation by microbial sialidases in the breastfed infant gut microbiome	Olivia Plisko	Department of Biochemistry and Biophysics, University of North Carolina at Chapel Hill
BM-48	Adiponectin recognizes bacterial lipopolysaccharide glycans to protect against enteric and systemic infection	Daniel Propheter	Department of Immunology, The University of Texas Southwestern Medical Center
BM-49	Chemoenzymatic Synthesis of Bacterial UDP-Sugars to Investigate Host–Microbe Glycan Interactions	Aastha Acharya	Department of Chemistry and Biochemistry, University of Delaware
BM-50	Context-Dependent Heparan Sulfate Recognition Regulates Arbovirus Dissemination	Stephanie Ander	Louisiana State University Health Shreveport
BM-51	PsrP O-glycosylation is metabolically wired to central amino-sugar metabolism in Streptococcus pneumoniae	Elif Sena Demir	Department of Biochemistry, Emory Vaccine Center, Emory University
BM-52	Mammalian soluble lectins as probes for host recognition of zoonotic viruses	Soumi Ghosh	Virginia Polytechnic Institute and State University
BM-53	Quantifying How the Expression System Shapes the Glycan Shield of Viral Glycoproteins	Jakub Hryc	Dioscuri Centre for Modelling of Posttranslational Modifications, Malopolska Centre of Biotechnology, Jagiellonian University
BM-54	To Fucose or not to Fucose: The divergent glycan recognition of heat-labile enterotoxin and cholera toxin	Jennifer Sanchez	University of Texas Southwestern Medical Center/ Department of Biochemistry
BM-55	Altered glycan composition of HIV-1 envelope glycoprotein enables virus escape from broadly neutralizing antibodies	Qing Wei	UAB
BM-56	Effects of Truncation on CXCL8 Heparan Sulfate Binding and Oligomerization	Jessica Castillo	Department of Chemistry & Biochemistry, California State University Dominguez Hills
BM-57	Structure and Biosynthesis of Exopolysaccharides from Prevotella Intermedia	Caitlyn Murray	National Institute of Dental and Craniofacial Reserach
BM-58	The Quantification and Characterization of Galactose Deficient IgA1 in IgA Nephropathy	Collin Ballard	Department of Surgery, Beth Israel Deaconess Medical Center, Harvard Medical School
BM-59	Investigating the effects of various proinflammatory cytokines on endothelial cells' ability to sialylate IgG	Grace Carlson	Case Western Reserve University
BM-60	A Semenogelin-Derived Glycopeptide Bound to a Galectin-3 N-Linked Glycan Complex on the Sperm Surface is the Potential Target of the Human Contraception Antibody	Sarah Dohadwala	Dept of Virology, Immunology, and Microbiology, Boston University
BM-61	Sialic Acid 9-O-Acetylation Maintains Tolerance Against Autoimmune Arthritis	Daniela Gonzalez Pinero	Division of Neonatology, Cincinnati Children’s Hospital Medical Center
BM-62	Immune Complexes Consisting of Galactose-deficient IgA1, IgG Autoantibodies, and Complement C3 Activate Cultured Primary Human Mesangial Cells	Stact Hall	University of Alabama at Birmingham
BM-63	Adjuvants control protective humoral immunity to intracellular bacteria through IgG Fab sialic acid O-acetylation	Aminul Islam	Cincinnati Children's Hospital Medical Center
BM-64	Mesangial Immune-complex Deposits of IgA Nephropathy Patients with Mesangial Hypercellularity have Reduced Exposed N-acetylgalactosamine (GalNAc) Residues of Galactose-deficient IgA1	Lea Novak	Department of Microbiology, University of Alabama at Birmingham
BM-65	Glyco-phenotyping reveals glycan signature-distinct populations within the CD8+ T effector memory population	Dominique Paz	Division of Transfusion Medicine, Mass General Brigham
BM-66	Desialylation of IgG Enhances Brain and Tissue Delivery in a Humanized Mouse Model	Jeffrey Schneider	Rush University
BM-67	ST6Gal-I modulates Treg induction and phenotype	Ajasha Thames	University of Alabama at Birmingham
BM-68	Exploring ST6GAL1-mediated Anti-inflammatory Macrophage Sialylation in Immune Communication and Disease	Priya Dipta	Nagoya University

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BM-69	Desmoglein 2 (DSG2) ST6GAL1 Mediated Sialylation Modulates Desmosome Ultrastructure and Strength in CRC	Teresa Beamon	University of Alabama at Birmingham Department of Surgery
BM-70	Beyond the Secretory Pathway: Oncogenic Signalling Regulates Extended Glycosylation in the Nucleus	Ujala Bashir	Department of Chemistry and Molecular Biology, University of Gothenburg
BM-71	Mucin-type O-glycosylation regulates epithelial morphogenesis through hemocyte-secreted Papilin and JAK/STAT signaling in Drosophila	Shoko Nishihara	GaLSIC, Soka University
BM-72	Cell and molecular biology of tissue-specific galectins	Alexander Timoshenko	The University of Western Ontario
BM-73	Multi-Glycomic Molecular Characterization Reveals a Structurally Diverse, Prebiotic-Associated Carbohydrate Profile in a Foundational Nutrition Supplement	Trevor Kirby	Research, Nutrition, and Innovation, AG1
BM-74	Collaboration and antagonism between receptor protein tyrosine phosphatases and protein O-mannosyltransferases POMT1/2 in the Drosophila nervous system	Caden Summers	Department of Biochemistry and Biophysics, Texas A&M University
BM-75	O-GlcNAcylation reverses Alzheimer disease molecular signatures through distinct mechanisms in males and females	Bruno da Costa Rodigues	University of Kansas Medical Center
BM-76	Investigating neuroglycobiology of Alzheimer's disease using human iPSC-derived neuronal model	Chang Liu	Department of Pharmacology and Chemical Biology, School of Medicine, Emory University
BM-77	Proteomic analysis of O-GalNAc glycans in the Slc35a2-deleted cortex	Brianna Masters	Neuroscience Center, University of North Carolina
BM-78	SLC35A2 deficiency selectively impairs O-GalNAc glycosylation in the brain of mice and humans with epilepsy	Sheridan Smith	UNC-Chapel Hill
BM-79	Gastric epithelial differentiation shapes mucin expression, glycosylation and mucus properties in human organoid monolayers	José Pires	Center for Glycocalyx Research, University of Copenhagen
BM-80	Site-Specific Intact N-Glycoproteomics Reveals Multi-Level N-Glycosylation Remodeling during the Monocyte-to-Macrophage Differentiation	Longping Fu	Georgia Institute of Technology
BM-81	A non-canonical EZH2/TRIM28 epigenetic axis drives heparan sulfate remodeling and melanoma metastasis	Neil Patel	Complex Carbohydrate Research Center, University of Georgia
BM-82	Hypothalamic perineuronal nets undergo biphasic remodeling in response to high fat diet	Alexander Carbonell	Department of Neuroscience, University of Florida
BM-83	Biochemical characterization of an atypical variant affecting the initiation codon in CHST14 in a patient with musculocontractural Ehlers-Danlos syndrome	Shuji Mizumoto	Faculty of Pharmacy, Meijo University
BM-84	Hypoxia suppresses vascular endothelial proteoglycan secretion by disrupting the balance of ER-to-Golgi intracellular trafficking	Misaki Shirai	Department of Environmental Health, Faculty of Pharmaceutical Sciences, Toho University
BM-85	Fucosylated Chondroitin Sulfate Inhibits Heparan-6-O Endosulfatase Function and Melanoma Invasiveness	Haruki Takeuchi	Complex Carbohydrate Research Center, University of Georgia
BM-86	Exploring the Biosynthesis of Pectic Rhamnogalacturonan I (RG-I) and its Biological Function in Arabidopsis Embryo Development	Pradeepa Jayawardhane	Complex Carbohydrate Research Center, University of Georgia
BM-87	Evaluating Glycan Remodeling in the Peri-Arbuscular Membrane (PAM) formed in Sorghum Root Cortex during Arbuscular Mycorrhizal Fungi (AMF) Symbiosis	Jonah Friedmann	Department of Biochemistry and Molecular Biology, University of Georgia