

Canadian Glycomics Virtual Poster Session – June 25, 2020

Posters List

Presenting at 11:20 am – 12 pm MDT

#	Name	Title	#	Name	Title
1	Adam McTague	Participation of <i>O</i> -GlcNAc and galectins in neutrophilic differentiation of human acute promyelocytic leukemia HL-60 cells	15	Emily Rodriguez	Characterization of the putative <i>O</i> -acetyltransferase Ccsl: role in cellulose biofilms
2	Alexander Garner	Quantitation of acetylated and non-acetylated sialic acids found in milk samples	16	Erum Razvi	Developing a small molecule inhibitor of the <i>Pseudomonas aeruginosa</i> biofilm exopolysaccharide deacetylase PelA
3	Alexander Eddenen	An inactive mutant of the hexosaminidase dispersin B acts as a selective probe for the biofilm-associated polysaccharide poly- <i>N</i> -acetylglucosamine	17	Fatma Eljabu	Analysis of intramolecular hydrogen-bonding in DANA derivatives by ¹³ C NMR spin-lattice relaxation
4	Andrew Lees	EcoCRM®, a recombinant CRM197 carrier protein for conjugate vaccines	18	Yazan Abu Yousef	Identification of new metabolic pathways regulating galactosaminogalactan synthesis and biofilm formation
5	Anna Niedzwiecka	Synthesis and extension of AltdiNAc for the synthesis of pseudaminic acid	19	Jaesoo Jung	A shotgun mass spectrometry-based glycomics strategy for delivering glycan ligands of CD33
6	Austin Che	Synthesis of a novel amphiphilic cyclodextrin for liquid crystalline studies	20	Jennifer Kaminker	Investigating <i>O</i> -GlcNAc and galectin gene expression in the human choriocarcinoma cell line BeWo
7	Brian Lowrance	Structural and functional characterization of the <i>Clostridioides difficile</i> glycosyl hydrolase CcsZ	21	Keegan Turner-Wood	Enhancing chimeric CAZyme complexes by introducing agarose binding modules
8	Bruce Motyka	ABO-mismatched hematopoietic cell transplantation and ABO tolerance: assessment of ABH subtype-specific antibodies	22	Kejia Yan	Intramolecular hydrogen bonds influence Wittig reaction rate by stabilizing transition state
9	Bushra Anjum	High-level natural anti-A antibody production and IgM to IgG class switch in female vs male mice	23	Kelli McCord	Evaluating the role of Siglecs in regulating neutrophils and monocytes using a liposome-based approach
10	Changqing Wang	Development of novel glyco-caged prodrugs to treat enteric inflammatory diseases	24	Laura Streith	Coordinated changes of carbohydrates regulate the function of CD22 on germinal centre B cells
11	Diana Czuchry	Using metaproteomics to identify galactosidases in the mouse gut microbiome for biomedical and industrial applications	25	Lena Sobze	Synthesis of peptide macrocycles using 1,5-dichloro-2,4-pentadione
12	Daniel Mattox	Computational characterization of lectin binding sites: uncovering determinants of glycan recognition	26	Lyann Sim	<i>In vivo</i> production of sialylated therapeutic proteins in <i>E. coli</i>
13	Danny Galleguillos	Gangliosides control inflammatory activation, chemotaxis, phagocytosis and growth factor synthesis in mouse primary microglia	27	Vijay Tejwani	Optimization of heparan sulfate expression and purification in batch shake-flask studies
14	Edward Schmidt	New approaches for studying Siglec-ganglioside interactions	28	Nishaka William	Modulating intracellular ice recrystallization in hepatocytes using small carbohydrate-based ice recrystallization inhibitors

Presenting at 12:20 pm – 1 pm MDT

#	Name	Title	#	Name	Title
29	Gour Daskhan	Modulating phagocytosis by targeting CD33 with multivalent glycodendrimers	44	Rui Qin	Global protein glycosylation profile is altered in osteoarthritic equine synovial fluid
30	Josh Kofsky	Towards the synthesis of O-glycan ligands for probing glycan-protein binding interactions	45	Ryan Sweeney	Synthesis of novel Montbretin A analogs as specific and potent inhibitors of human pancreatic amylase
31	Jonathan Babulic	Developing photo-crosslinking probes to investigate Siglec-7-glycan interactions through cell-surface glyco-engineering	46	Samantha Bakker	Evaluation of bovine milk oligosaccharides using tandem mass tags
32	Lucy Ross-Blevis	Teasing out the function of protein O-mannosylation in Actinobacteria: a proteomic approach	47	Samar Barazesh	O-Glycan sequon engineering of therapeutic proteins in <i>Escherichia coli</i>
33	Martin Lepšik	Calcium bridging between carbohydrates and lectins: Classical molecular dynamics augmented with effective electronic polarisation	48	Shaiqi Guo	Molecular basis for ligand recognition by a bacterial lectin involved in biofilm formation
34	Marrie Boddington	Chemoenzymatic synthesis of multiantennary N-glycans displaying SLe ^x epitopes	49	Simona Notova	Janus lectins as scaffold for double specificity
35	Michel Prévost	Synthesis of sialyl Lewis-x analogues as selectin antagonists	50	Starr Dostie	Novel classes of bioactive nucleoside analogues
36	Mostafa Radwan	Optimizing linker design of human neuraminidase inhibitors	51	Taylor Gray	Development of high-throughput methods for the analysis of dairy protein N-Glycans
37	Nahoko Yagami	Synthesis and pharmacokinetic study of selective inhibitors of human neuraminidases	52	Thu Chu	High-throughput mapping miRNA-glycogene interactomes
38	Nevin Elsayed	The development of pharmacophore, 2D and 3D QSAR models for the discovery of novel human neuraminidase inhibitors	53	Wei Li	Preliminary X-Ray structure of a Fab fragment of antibody targeting tumour-associated carbohydrate antigens
39	Nicole Thompson	An HPLC approach to glycoform quantification in the development of therapeutic proteins with mucin type O-glycans	54	Jil Busmann	Affinity capture of endogenous O-GlcNAc transferase (OGT) in acute myeloid leukemia (AML)
40	Nageswari Yarravarapu	Chemoenzymatic methods to map glycan-mediated interactions	55	Youjin Kim	Chemoenzymatic synthesis of type I and Type II poly-LacNAc's and their derivatives
41	Peter Nguyen	Novel strategies for treatment of periodontal disease and remediation of oral dysbiosis	56	Zachary Morrison	Probing the mechanism of glycosyltransferase PgaCD with UDP-GlcNAc substrate analogs
42	Princey Raju	A synthetic strategy for glycopeptide mimetics	57	Jonathan Cartmell	Core services for glycomics research
43	Reilly Pidgeon	Glycan-based prebiotic adjuvants in cancer immunotherapy			