

3rd Australasian Glycoscience Symposium (3rd AGS) Detailed Program

AM, Wednesday, June 2nd, 2021

Session	JP-JST	AU-EST	Minutes	Presenter's name	Presenter's affiliation	Title	Chair
Zoom Connection Test 1st (one minute test for presenter)	9:00	10:00	60 min	any presenter and any audience who this time is convenient		Zoom Connection Test 1st (one minute test for presenter)	Miyako Nakano
	9:05	10:05					
	9:10	10:10					
	9:15	10:15					
	9:20	10:20					
	9:25	10:25					
	9:30	10:30					
	9:35	10:35					
	9:40	10:40					
	9:45	10:45					
	9:50	10:50					
	9:55	10:55					
Break_0602_1	10:00	11:00	180 min			Break time	
	10:05	11:05					
	10:10	11:10					
	10:15	11:15					
	10:20	11:20					
	10:25	11:25					
	10:30	11:30					
	10:35	11:35					
	10:40	11:40					
	10:45	11:45					
	10:50	11:50					
	10:55	11:55					
	11:00	12:00					
	11:05	12:05					
	11:10	12:10					
	11:15	12:15					
	11:20	12:20					
	11:25	12:25					
	11:30	12:30					
	11:35	12:35					
	11:40	12:40					
	11:45	12:45					
	11:50	12:50					
	11:55	12:55					
	12:00	13:00					
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12:35	13:35						
12:40	13:40						
12:45	13:45						
12:50	13:50						
12:55	13:55						



This symposium is supported by

- grant of Japan Society for the Promotion of Science (JSPS) Bilateral Program, [number 220219905], <https://www.jsps.go.jp/j-bilat/semina/jrss.html>
- grant of Higashihiroshima City for the Promotion of Science, [date 210519], https://www.city.higashihiroshima.lg.jp/soshiki/somu/1_1/1/8654.html



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Zoom Connection Test 2nd (one minute test for presenter)	13:00	14:00	60 min	any presenter and any audience who this time is convenient		Zoom Connection Test 2nd (one minute test for presenter)	Miyako Nakano
	13:05	14:05					
	13:10	14:10					
	13:15	14:15					
	13:20	14:20					
	13:25	14:25					
	13:30	14:30					
	13:35	14:35					
	13:40	14:40					
	13:45	14:45					
	13:50	14:50					
Break_0602_2	14:00	15:00	180 min			Break time	
	14:05	15:05					
	14:10	15:10					
	14:15	15:15					
	14:20	15:20					
	14:25	15:25					
	14:30	15:30					
	14:35	15:35					
	14:40	15:40					
	14:45	15:45					
	14:50	15:50					
	14:55	15:55					
	15:00	16:00					
	15:05	16:05					
	15:10	16:10					
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	15:20	16:20					
	15:25	16:25					
	15:30	16:30					
	15:35	16:35					
	15:40	16:40					
	15:45	16:45					
	15:50	16:50					
	15:55	16:55					
	16:00	17:00					
	16:05	17:05					
	16:10	17:10					
16:15	17:15						
16:20	17:20						
16:25	17:25						
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16:35	17:35						
16:40	17:40						
16:45	17:45						
16:50	17:50						
16:55	17:55						
Zoom Connection Test 3rd (one minute test for presenter)	17:00	18:00	60 min	any presenter and any audience who this time is convenient		Zoom Connection Test 3rd (one minute test for presenter)	Miyako Nakano
	17:05	18:05					
	17:10	18:10					
	17:15	18:15					
	17:20	18:20					
	17:25	18:25					
	17:30	18:30					
	17:35	18:35					
	17:40	18:40					
	17:45	18:45					
	17:50	18:50					
17:55	18:55						
18:00	19:00						

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AM, Thursday, June 3rd, 2021

Session	JP-JST	AU-EST	Minutes	Presenter's name	Presenter's affiliation	Title	Chair	
Opening Zoom for Panelists	8:30	9:30	20 min	today's presenters and today's chairpersons				
	8:35	9:35						
	8:40	9:40						
	8:45	9:45						
Opening Zoom for Audience	8:50	9:50	10 min	the others all				
	8:55	9:55						
Opening Remarks	9:00	10:00	10 min	Miyako Nakano				
	9:05	10:05	5 min	Morten Thaysen-Andersen				
	9:10	10:10						
Opening Special Lecture	9:15	10:15	30 min	Naoyuki Taniguchi	Osaka International Cancer Institute, Japan	Glycomimetics using Keratan sulfate disaccharide and its analogues by targeting a C-type lectin receptor, Langerin.	Morten Thaysen-Andersen	
	9:20	10:20						
	9:25	10:25						
	9:30	10:30						
	9:35	10:35						
	9:40	10:40						
Break_0603_1	9:45	10:45	15 min	Break time				
	9:50	10:50						
	9:55	10:55						
Glycobiology 1	10:00	11:00	20 min	Daniel Kolarich	Griffith University, Australia	Altered glycoproteome of MLL-rearranged B-cell precursor acute lymphoblastic leukemia	Yasuhiko Kizuka	
	10:05	11:05						
	10:10	11:10						
	10:15	11:15						
	10:20	11:20	20 min	Eiji Miyoshi	Osaka University, Japan	Detection of fucosylated haptoglobin using the 10-7G antibody is a biomarker for evaluating endoscopic remission in ulcerative colitis		
	10:25	11:25						
	10:30	11:30						
	10:35	11:35						
	10:40	11:40	20 min	Christina Bursill	SAMHRI, Australia	Glycans in atherosclerosis; the emerging role of the asialoglycoprotein receptor-1		
	10:45	11:45						
	10:50	11:50						
	10:55	11:55						
	11:00	12:00	20 min	Kenji Kadomatsu	Nagoya University, Japan	Chondroitin sulfate, heparan sulfate and PTP α : Roles in axon regeneration and synaptogenesis		Daniel Kolarich
	11:05	12:05						
	11:10	12:10						
	11:15	12:15						
11:20	12:20	20 min	Tadashi Suzuki	RIKEN CPR, Japan	Toward Curing NGLY1 deficiency			
11:25	12:25							
11:30	12:30							
11:35	12:35							
11:40	12:40	15 min	Evgeny Semchenko	Griffith University, Australia	From Deciphering the Glycointeractome to Potentially New Treatments to combat multi-drug resistant Neisseria gonorrhoeae			
11:45	12:45							
11:50	12:50							
11:55	12:55							
12:00	13:00	15 min	Alpesh Malde	Griffith University, Australia	Effect of glycosylation on structure and dynamics of proteins: A case study of SARS-CoV-2 spike protein			
12:05	13:05							
12:10	13:10							
12:15	13:15							
Break_0603_2	12:20	13:20	50 min	Lunch break				
	12:25	13:25						
	12:30	13:30						
	12:35	13:35						
	12:40	13:40						
	12:45	13:45						
	12:50	13:50						
	12:55	13:55						

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Session	JP-JST	AU-EST	Minutes	Presenter's name	Presenter's affiliation	Title	Chair
Glycobiology 2	13:00	14:00	20 min	Jin-ichi Inokuchi	Tohoku Medical and Pharmaceutical University, Japan	Homeostatic and Pathogenic Balance Regulated by Ganglioside GM3	Tadashi Suzuki
	13:05	14:05					
	13:10	14:10					
	13:15	14:15					
	13:20	14:20	20 min	Paul Gleeson	University of Melbourne, Australia	The Golgi architecture and cell sensing: New functions for the Golgi	
	13:25	14:25					
	13:30	14:30					
	13:35	14:35	20 min	Kazunari Akiyoshi	Kyoto University, Japan	Function and Heterogeneity of Surface Glycans on Extracellular Vesicles	
	13:40	14:40					
	13:45	14:45					
	13:50	14:50					
	13:55	14:55	20 min	Yasuhiko Kizuka	Gifu University, Japan	Insights into protein-selective action of GnT-V	
	14:00	15:00					
	14:05	15:05					
	14:10	15:10					
	14:15	15:15	20 min	Kate Seib	Griffith University, Australia	Investigating glycan interactions of the pathogenic Neisseria to identify new drug and vaccine targets	
14:20	15:20						
14:25	15:25						
14:30	15:30	15 min	Hadieh A. Eslampanah Seyedi	Griffith University, Australia	Relationship Between Structure of Human Galectin-8 & Binding to Sialyl-Containing Glycan		
14:35	15:35						
14:40	15:40						
14:45	15:45						
14:50	15:50	15 min	Yuki Ohkawa	Osaka International Cancer Institute, Japan	Functional analysis of langerin against keratan sulfate disaccharide L4 and derivatives in langerin knockout mice		
14:55	15:55						
15:00	16:00						
Break_0603_3	15:05	16:05	15 min	Break time			
	15:10	16:10					
	15:15	16:15					
	15:20	16:20					
	15:25	16:25					
	15:30	16:30					
	15:35	16:35					
	15:40	16:40					
	15:45	16:45					
	15:50	16:50					
Glycochemistry	15:55	16:55	20 min	Koichi Fukase	Osaka University, Japan	Synthesis and bio-functional study of lipid As from symbiotic bacteria	Sue Berners-Price
	16:00	17:00					
	16:05	17:05					
	16:10	17:10	20 min	Hiromune Ando	Gifu University, Japan	Chemical Synthesis of Gangliosides to Explore the Cell Membrane Domains	
	16:15	17:15					
	16:20	17:20					
	16:25	17:25	20 min	Kaori Sakurai	Tokyo University of Agriculture and Technology, Japan	Exploration of the reactivity of multivalent electrophiles for efficient affinity labeling of carbohydrate-binding proteins	
	16:30	17:30					
	16:35	17:35					
	16:40	17:40	20 min	Sue Berners-Price	Griffith University, Australia	Metalloglycomics. Therapeutic Applications from Novel Approaches to Targeting Glycosaminoglycans	
	16:45	17:45					
	16:50	17:50					
16:55	17:55						
	17:00	18:00					

3rd Australasian Glycoscience Symposium (3rd AGS)

Detailed Program

AM, Friday, June 4th, 2021

Session	JP-JST	AU-EST	Minutes	Presenter's name	Presenter's affiliation	Title	Chair
Opening Zoom for Panelists	8:30	9:30	20 min	today's presenters and today's chairpersons			
	8:35	9:35					
	8:40	9:40					
	8:45	9:45					
Opening Zoom for Audience	8:50	9:50	10 min	the others all			
	8:55	9:55					
Glycoproteomics/Glycomics 1	9:00	10:00	20 min	Miyako Nakano	Hiroshima University, Japan	Bisecting GlcNAc is a brake monosaccharide for further modification of N-glycan terminal	Morten Thaysen-Andersen
	9:05	10:05					
	9:10	10:10					
	9:15	10:15					
	9:20	10:20	20 min	Kay-Hooi Khoo	Academia Sinica, Taiwan	Advanced LC-MS/MS-based workflow for discovery and targeted (sulfo)glycomics	
	9:25	10:25					
	9:30	10:30					
	9:35	10:35					
	9:40	10:40	20 min	Edward Moh	Macquarie University, Australia	Polysialic acid, Glycosaminoglycans, N-glycans and O-glycans: multi-glycomics discovery in neuroscience	
	9:45	10:45					
	9:50	10:50					
	9:55	10:55					
10:00	11:00	10 min	Rebeca Kawahara	Macquarie University, Australia	Hexosaminidase as a candidate prognostic marker in colorectal cancer	Daniel Kolarich	
10:05	11:05						
10:10	11:10						
10:15	11:15						
10:20	11:20	10 min	Sayantani Chatterjee	Macquarie University, Australia	Oligomannosylation and MAN1A1 expression associate strongly with a subset of human cancer types		
10:25	11:25	10 min	Zeynep Sumer-Bayraktar	Macquarie University, Australia	Membrane N-glycome is impacted by the cell culturing mode of neuroblastoma cells with differing migration and invasion potential		
Break_0604_1	10:30	11:30	15 min	Break time			
	10:35	11:35					
	10:40	11:40					
Glycoproteomics/Glycomics 2	10:45	11:45	20 min	Morten Thaysen-Andersen	Macquarie University, Australia	Community Evaluation of Glycoproteomics Informatics Solutions Reveals High-Performance Search Strategies of Glycopeptide Data	Daniel Kolarich
	10:50	11:50					
	10:55	11:55					
	11:00	12:00					
	11:05	12:05	20 min	Koichi Kato	NINS and Nagoya City University, Japan	Dynamic Views of Oligosaccharides and Glycoproteins Provided by Experimental and Computational Observations	
	11:10	12:10					
	11:15	12:15					
	11:20	12:20					
	11:25	12:25	20 min	Hyun Joo An	Chungnam National University, South Korea	Spatial and Temporal Diversity of Glycome Expression in Mammalian Brains	
	11:30	12:30					
	11:35	12:35					
	11:40	12:40					
11:45	12:45	10 min	Oren Cooper	Griffith University, Australia	Novel cantilever glycan array using self-assembled monolayers for label free detection	Miyako Nakano	
11:50	12:50						
11:55	12:55						
12:00	13:00						
12:05	13:05	10 min	Taiki Saito	Nagoya City University, Japan	An embeddable molecular code for Lewis X modification through interaction with FUT9		
12:10	13:10						
12:15	13:15						
12:20	13:20						
Break_0604_2	12:25	13:25	45 min	Lunch break			
	12:30	13:30					
	12:35	13:35					
	12:40	13:40					
	12:45	13:45					
	12:50	13:50					
	12:55	13:55					

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Session	JP-JST	AU-EST	Minutes	Presenter's name	Presenter's affiliation	Title	Chair
Glycoproteomics/Glycomics 3	13:00	14:00	20 min	Joe Tiralongo	Griffith University, Australia	From MEMS to Carbon Dots: When Glyco meets Nano	Morten Thaysen-Andersen
	13:05	14:05					
	13:10	14:10					
	13:15	14:15					
	13:20	14:20	20 min	Chiaki Nagai-Okatani	AIST, Japan	Multi-faceted glycomics and glycoproteomics: toward the comprehensive understanding of spatial protein glycosylation	
	13:25	14:25					
	13:30	14:30					
	13:35	14:35					
	13:40	14:40	20 min	Babu Ponnusamy	Intas Pharmaceuticals, India	Biosynthesis and in-depth structural characterization of N- and O-linked glycans in Planarian Schmidtea Mediterranea	
	13:45	14:45					
	13:50	14:50					
	13:55	14:55					
14:00	15:00	10 min	Anastasia Chernykh	Macquarie University, Australia	Strategically positioned O-glycans of the RCL of human corticosteroid-binding globulin confer protection against neutrophil elastase	Miyako Nakano	
14:05	15:05						
14:10	15:10	10 min	Julian Ugonotti	Macquarie University, Australia	N-Acetyl- β -D-hexosaminidases mediate the generation of paucimannosidic proteins via a non-canonical truncation pathway in human neutrophils		
14:15	15:15						
Break_0604_3	14:20	15:20	15 min	Break time			
	14:25	15:25					
	14:30	15:30					
Glycoinformatics	14:35	15:35	20 min	Kiyoko F. Aoki-Kinoshita	Soka University, Japan	Increased Integration of Omics Data in the GlyCosmos Glycoscience Portal	Matthew Campbell
	14:40	15:40					
	14:45	15:45					
	14:50	15:50					
	14:55	15:55	20 min	Tiffany Walsh	Deakin University, Australia	Interaction between Polysialic acid and MARCKS-ED peptide at the molecular level	
	15:00	16:00					
	15:05	16:05					
	15:10	16:10					
	15:15	16:15	20 min	Zach Pang	A-star, Singapore	Semi-automated Glycoproteomic Data Analysis of LC-MS data using GlycopeptideGraphMS in Process Development of Monoclonal Antibody Biologics	
	15:20	16:20					
	15:25	16:25					
	15:30	16:30					
	15:35	16:35	20 min	Liang Qiao	Fudan University, China	GproDIA enables data-independent acquisition glycoproteomics with comprehensive statistical control	
	15:40	16:40					
	15:45	16:45					
	15:50	16:50					
	15:55	16:55	20 min	Matthew Campbell	Griffith University, Australia	GlyGen: Enhanced Data Interfaces for Glycosciences	
	16:00	17:00					
	16:05	17:05					
	16:10	17:10					
16:15	17:15	10 min	Daniel Bojar	University of Gothenburg, Sweden	Bringing Glycobiinformatics to the Masses with the Python Package Glycowork		
16:20	17:20						
16:25	17:25	10 min	Koichi Arakawa	Soka University, Japan	Development of an online tool to simulate glycosylation in signaling pathways	Matthew Campbell	
16:30	17:30						
16:35	17:35	10 min	Masaaki Matsubara	The Noguchi Institute, Japan	A Software Tool for Extracting Glycan Structure Information from PDB		
16:40	17:40	10 min	Miyuki Kikuchi	Soka University, Japan	Development of MicroGlycoDB, a database of glycan-related information in microorganisms using RDF		
16:45	17:45	10 min	Shinichiro Tsuchiya	The Noguchi Institute, Japan	SugarDrawer: An interface for glycan visualization and search		
16:50	17:50						
16:55	17:55	10 min					
17:00	18:00						
Break_0604_4	17:05	18:05	10 min	Break time			
	17:10	18:10					
Closing Special Lecture	17:15	18:15	30 min	Nicolle H. Packer	Macquarie University, Australia	Multipurpose sugars: exploiting glycan structural diversity	Miyako Nakano
	17:20	18:20					
	17:25	18:25					
	17:30	18:30					
	17:35	18:35					
	17:40	18:40					
Closing Remarks	17:45	18:45	10 min	Morten Thaysen-Andersen			
	17:50	18:50	5 min	Miyako Nakano			
	17:55	18:55					
	18:00	19:00					