

@International Conference Hall, 3F

**14:00-16:00 Special Open Session on Glycobiology of Viruses**

*Chairs : Chi-Huey Wong, Shie-Liang Hsieh*

**14:00 Keynote 1: Chi-Huey Wong**, Scripps Research Institute, USA and Academia Sinica, Taiwan  
*Targeting human viruses with broadly protective low-sugar vaccines (D012)*

**14:30 Keynote 2: James Paulson**, Scripps Research Institute, USA  
*Adaptation of influenza virus to human airway receptors (D013)*

**15:00 Keynote 3: Cristina de Castro**, Univ. of Naples Federico II, Italy  
*Giant viruses and their unusual glycans (D014)*

**15:30 Keynote 4: Danny Hsu**, Academia Sinica, Taiwan  
*Quantitative descriptions of structure-function relationships of glycoSHIELD of coronavirus spike proteins (D015)*

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**16:20-16:40 Opening Ceremony & Welcoming Addresses**

**16:40-17:20 IGO Hakomori Award (2021) : Els JM van Damme**, Ghent Univ., Belgium  
*Plant lectin research: A journey from basic science to applications in agriculture and medicine (D001)*  
*Chaired by Sandro Sonnino*

**17:30-18:10 IGO Hakomori Award : Tadashi Suzuki**, RIKEN, Japan  
*NGLY1: the beauty of curiosity-driven science (D002)*  
*Chaired by Naoyuki Taniguchi*

**18:20-19:00 IGO Young Glycoscientist Award: Ana Sofia Luís**, Univ. of Gothenburg, Sweden  
*Mucin O-glycans degradation by gut Bacteroides requires multiple key enzymes (D003)*  
*Chaired by Gunnar Hansson*

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**19:00-21:00 Welcome Reception** @Lobby, 4F

Track A @International Conference Hall, 3F

**09:00-11:00 Session 1A1: GBP in Immunoregulation & Cell Homeostasis**

*Chairs: Maureen Taylor, Kuo-I Lin*

**09:00 Keynote 1: Matthew Macauley**, Univ. of Alberta, Canada

*New insights about the glycan ligands of Siglecs and their ability to control immune cells (D016)*

**09:30 Keynote 2: Karina V Mariño**, CONICET, Argentina

*Exploring glycosylation-dependent pathways as modulators of intestinal inflammation (D017)*

**10:00 Takeshi Tsubata**, Nihon Univ., Japan

*Role of endogenous glycan ligands of CD22 (Siglec-2) in immunity (A068)*

**10:15 Alba Silipo**, Univ. of Naples Federico II, Italy

*Siglecs interaction with glycans: A molecular view (A042)*

**10:30 Huei-Syuan Jiang**, Academia Sinica, Taiwan

*Comprehensive study of Siglec-15 ligands on osteoclast precursors by genome-wide knockout screening (A029)*

**10:45 ThuyLinh DangCao Linda**, Univ. of Tsukuba, Japan

*Cancer specific sialylation of glycoprotein nonmetastatic melanoma protein B Interact with tumor associated macrophage in triple-negative breast carcinoma via Siglec-9 (A105)*

**11:00-11:20 Coffee Break**

@Lobby, 4F

**11:20 Plenary 1: Alice Yu**, Chang Gung Memorial Hospital and Univ., Taiwan

*Cancer Immunotherapy targeting glycosphingolipids (D004)*  
*Chaired by: Jin-Ichi Inokuchi*

**12:00-13:20 Lunch**

@Communal area, 3F

or **Luncheon Seminar 1: GlycoNex Inc.**

@Recreation Hall, 4F

*Chaired by: Caroline-Setyo Suwardi*

**Yen-Ying Chen**

*Accelerating the journey from concept to clinic with innovative glycan-targeted drug approaches in oncology*

**13:20 Plenary 2: Heinz Läubli**, Univ. of Basel, Switzerland

*Targeting cancer-associated sialylation for cancer immunotherapy (D005)*  
*Chaired by: Takashi Angata*

**14:00-16:00 Session 1A2: Cancer Glycobiology & Immunotherapy**

*Chairs: Heinz Läubli, Chia-Wei Li*

**14:00 Keynote 1: Avery Posey**, Univ. of Pennsylvania, USA

*Leveraging tumor-associated alterations in O-glycosylation for cancer immunotherapy (D018)*

- 14:30 **Keynote 2: Salomé Pinho**, Univ. of Porto, Portugal  
*Glycans at the frontiers of inflammation, autoimmunity and cancer: Mechanisms and clinical implications (D019)*
- 15:00 **Jianguo Gu**, Tohoku Medical and Pharmaceutical Univ., Japan  
*Alteration in N-glycans in cancer drug resistance: A new function of GnT-III (A082)*
- 15:15 **Hiroto Kawashima**, Chiba Univ., Japan  
*Development of a novel anti-sulfated glycan antibody that blocks lymphocyte homing to nasal associated-lymphoid tissues and allergic rhinitis in mice (A062)*
- 15:30 **Alice ST Wong**, Univ. of Hong Kong, Hong Kong  
*ST3GAL4 promotes the first critical step of ovarian cancer metastasis (A102)*
- 15:45 **Travel Award: Seigo Tateo**, Kagoshima Univ., Japan  
*Development of sugar chain binding chimeric antigen receptor expressed natural killer cells for immunotherapy against adult T cell leukemia (ATL) (A111)*

16:00-16:20 **Coffee Break**

@Lobby, 4F

16:20-18:20 **Glyco-Informatics Workshop**

*Coordinators: Kiyoko Aoki-Kinoshita, Issaku Yamada*

*Speakers and Panelists:*

**Kiyoko Aoki-Kinoshita**, Soka Univ.; **Issaku Yamada**, Nogochi Institute;  
**Daniel Bojar**, Univ. Gothenburg; **Akihiro Fujita**, Soka Univ.; **Morihisa Fujita**, Gifu Univ.; **Masae Hosoda**, Soka Univ.; **Daniel Kolarich**, Griffith Univ.; **Atsushi Kuno**, National Institute of Advanced Industrial Science and Technology; **Thomas Masding**, Soka Univ.; **Sriram Neelamegham**, State Univ. of New York at Buffalo;  
**Shujiro Okuda**, Niigata Univ.; **Yushi Takahashi**, Soka Univ.; **Michael Tiemeyer**, Univ. of Georgia

Track B @2nd Conference Room, 3F

09:00-11:00 **Session 1B1: Glycosylation in ER/Golgi and Biosynthetic Regulation**

*Chairs: Koichi Kato, Ruey-Bin Yang*

- 09:00 **Keynote 1: Adnan Halim**, Univ. of Copenhagen, Denmark  
*Complex regulation of domain-specific O-mannosylation by three non-redundant enzyme families (D020)*
- 09:30 **Keynote 2: Hans Bakker**, Hannover Medical School, Germany  
*C-mannosylation of proteins: specificity and function (D021)*
- 10:00 **Tetsuya Okajima**, Nagoya Univ., Japan  
*The structure and function of "extracellular" O-GlcNAc modification in mammals (A010)*
- 10:15 **Satoshi Ninagawa**, Kobe Univ., Japan  
*EDEM2-S-S-TXNDC11 complex trims N-glycan from M9 to M8B in the endoplasmic reticulum (A003)*
- 10:30 **Kiichiro Totani**, Seikei Univ., Japan  
*Endomannosidase contributes to degradation of misfolded glycoproteins in the endoplasmic reticulum (A009)*

10:45 **Vladimir Lupashin**, Univ. of Arkansas, USA  
*Understanding the essential role of COG and GARP vesicle tethering complexes and SNAREs in regulating protein glycosylation in human cells (A001)*

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14:00-16:00 **Session 1B2: Glyco-Metabolism & Autophago-lysosomal pathways**

*Chairs: Fu-Tong Liu, Guang-Chao Chen*

14:00 **Keynote 1: Vojo Deretic**, Univ. of New Mexico School of Medicine, USA  
*Galectins, Atg8ylation, and stress granules in autophagy and membrane stress response (D022)*



14:30 **The EMBO Keynote Lecture: Ludger Johannes**, Institut Curie, France  
*Desialylation glycoswitch to acutely control endocytosis (D023)*

15:00 **Alexey Pshezhetsky**, Univ. of Montreal, Canada  
*Protein sialylation as a defining factor for hematopoiesis, adult myogenesis and kidney function (A021)*

15:20 **Ching-Yuan Cheng**, National Taiwan Univ., Taiwan  
*Intracellular Galectin-1 involves in erythropoiesis via regulating STATs, ERK, and Smad2/3 signaling (A018)*

15:40 **Chia-Lin Hsu**, National Yang Ming Chiao Tung Univ., Taiwan  
*The intracellular nucleoside transporter, ENT3, regulates lysosome-mediated activities in immune cells (A020)*

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16:20-18:05 **Session 1B3: Travel Award & Young Scientists**

*Chairs: Ching-Ching Yu, Chian-Hui Lai*

16:20 **Travel Award: Jeff Hsiao**, Massachusetts Institute of Technology, USA  
*Mucin O-glycans are host-derived immunomodulators of neutrophil Inflammatory activity (A052)*

16:35 **Travel Award: Inês Alves**, Univ. of Porto, Portugal  
*Abnormal glycosignature of host tissue triggers pathogenic recognition through  $\gamma\delta$ T cells/IL-17a axis in autoimmunity (A109)*

16:50 **Travel Award: Nohelly Derosiers**, Univ. of Pennsylvania, USA  
*Investigating the efficacy of Siglec-15 based CAR T-cells (A085)*

17:05 **Travel Award: The Huong Chau**, Macquaire Univ., Australia  
*Glycomics-assisted glycoproteomics enables insights into the complex glycoproteome of resting and activated platelets (C021)*

17:20 **Chia Yen Liew**, Academia Sinica, Taiwan  
*LODES/MSn for structural determination of high mannose N-glycan isomers in multicellular eukaryotic cells (C045)*

17:35 **Yi-Hsuan Chang**, Academia Sinica, Taiwan  
*Protein O-GlcNAcylation regulates the homeostasis of innate B lymphocytes (A022)*

17:50 **Shwee Khuan Leong**, Academia Sinica, Taiwan  
*Site-specific multiple fluorescent metabolic glycan labelling and glycoproteomic profiling in live cells (B010)*

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Track A @International Conference Hall, 3F

**09:00-11:00 Session 2A1: Mucin & Microbiome (SFG session)**

*Chairs: Stacy Malaker, Michael Tiemeyer*

**09:00 Keynote 1: Katharina Ribbeck**, Massachusetts Institute of Technology, USA

*Mucin glycans in the regulation of microbial virulence (D024)*

**09:30 Keynote 2: Mario Feldman**, Washington Univ., USA

*Human gut bacteria tailor extracellular vesicle cargo for the breakdown of diet- and host-derived glycans (D025)*

**10:00 Qiaochu Liang**, Univ. of British Columbia, Canada

*The role of mucin O-glycans in the interactions between enteric pathogens and the intestinal mucus (A046)*

**10:20 Toshihiko Katoh**, Kyoto Univ., Japan

*Bifidobacterium bifidum degrades sulfated mucin O-Glycans via a sulfatase-independent pathway (A050)*

**10:40 Ching-Ching Yu**, National Tsing Hua Univ., Taiwan

*Analyzing the substrate specificity of fucosidases from Bifidobacterium longum by supercritical fluid chromatography (C075)*

**11:00-11:20 Coffee Break**

@Lobby, 4F

**11:20 Plenary 3: Gunnar C Hansson**, Univ. of Gothenburg, Sweden

*The gel-forming mucins protecting our intestinal and respiratory tracts are densely glycosylated polymeric proteins (D006)*

*Chaired by: Henrik Clausen*

**12:00-13:20 Lunch**

@Communal area, 3F

or **Luncheon Seminar 2: E. SUN FHC & Rock Biomedical, Inc.**

@Recreation Hall, 4F

*Chaired by: Jeng-Shin Lee*

**Alex Che Ma, Szu-Wen Wang, Chung-Yi Wu**

*Development of low sugar universal vaccine*

**13:20 Plenary 4: Nathalie Juge**, Quadram Institute, UK

*Sialic acid metabolism in the gut microbiota (D007)*

*Chaired by: Anne Dell*

**14:00-16:00 Session 2A2: Structural Aspects of GBP in Cancer & Host-Microbe Interactions**

*Chairs: Yehiel Zick, Chun-Hung Lin*

**14:00 Keynote 1: Kurt Drickamer**, Imperial College London, UK

*Mammalian lectin arrays for characterizing host-pathogen interactions (D026)*

**14:30 Keynote 2: Ute Krengel**, Univ. of Oslo, Norway

*Protein-carbohydrate interactions in infection and cancer biology (D027)*

**15:00 Shang-Chuen Wu**, Harvard Medical School, USA

*Blood group A enhances SARS-CoV-2 infection (A071)*

- 15:15 **Yoshiki Yamaguchi**, Tohoku Medical and Pharmaceutical Univ., Japan  
*Glycan dynamics and glycan-protein interactions analyzed by experimental NMR methods, AlphaFold-assisted molecular dynamics and docking simulations (C074)*
- 15:30 **Sheng-Kai Wang**, National Tsing Hua Univ., Taiwan  
*Manipulating carbohydrate interactions by polyproline-based nanoscaffolds (C073)*
- 15:45 **Travel Award: Cristina Di Carluccio**, Univ. of Naples Federico II, Italy  
*Molecular details of  $\alpha$ 2–3-sialylated O-GalNAc glycan recognition by Siglec-like SLBR-N (SLBRUB10712) of *Streptococcus gordonii* (A038)*

Track B @2nd Conference Room, 3F

09:00-11:00 **Session 2B1: Glycoconjugate Diversity from Non-mammal**

*Chairs: Shi Yan, Yves Hsieh*

- 09:00 **Keynote 1: Katharina Paschinger**, Univ. of Natural Resources and Life Sciences (BOKU), Austria  
*Glycans in host-pathogen interactions (D028)*
- 09:30 **Keynote 2: Yann Guerardel**, Lille Univ., France  
*Regulation of the biosynthesis of glycopeptidolipids in *Mycobacterium abscessus* (D029)*
- 10:00 **Shinya Fushinobu**, Univ. of Tokyo, Japan  
*Structural basis of endo/exo- $\alpha$ - and exo- $\beta$ -D-arabinofuranosidases for the degradation of mycobacterial lipoarabinomannan (B054)*
- 10:20 **Josef Voglmeir**, Nanjing Agricultural Univ. China  
*Novel insights in the sialic acid biosynthesis in vertebrates and invertebrates (A148)*
- 10:40 **Noriko Suzuki**, Nagoya City Univ., Japan  
*Gain and loss of  $\alpha$ 4-galactosyltransferase-like genes in the course of vertebrate evolution (A146)*

14:00-16:00 **Session 2B2: Glyco Analytics & Glycomics**

*Chairs: Daniel Kolarich, Jaroslav Katrlík*

- 14:00 **Keynote 1: Manfred Wuhrer**, Leiden Univ., Netherlands  
*Fingerprinting disease by mass spectrometry (D030)*
- 14:30 **Keynote 2: Morten Thaysen-Andersen**, Macquarie Univ., Australia  
*Glycomics-guided glycoproteomics uncovers new players in the innate immune system (D031)*
- 15:00 **Yanlong Ji**, Max Planck Institute, Germany  
*Integrated proteomic and glycoproteomic characterization of diffuse large B cell lymphoma cell lines (C026)*
- 15:15 **Travel Award: Abarna Vidya Mohana Murugan**, Griffith Univ., Australia  
*Phyloglycomics: Understanding species-specific evolution of the serum glycome – a step towards filling the knowledge gap in host-pathogen co-evolution (C042)*

- 15:30 **Lucia Pažitná**, Slovak Academy of Sciences, Slovakia  
*Glycoprofiling of selected glycoproteins and blood components in gestational diabetes mellitus by lectin-based glycoprotein microarray method (C053)*
- 15:45 **Atsushi Kuno**, National Institute of Advanced Industrial Science and Technology, Japan  
*Lectin dotcoding: A new output method improving the effectiveness of automatic glycan profiling with 15-Lectin tip (C064)*

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Track C @1st Conference Room, 3F

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09:00-11:00 **Session 2C1: ACGG I**

*Chairs: Chuan-Fa Chang, Siva Kumar Nadimpalli*

- 09:00 **Keynote 1: Siva Kumar Nadimpalli**, Univ. of Hyderabad, India  
*Glycosyl hydrolases from the seeds of Cucurbitaceae (D032)*
- 09:30 **Keynote 2: Xuechen Li**, Univ. of Hong Kong, Hong Kong  
*Chemical glycobiology studies on bacterial pseudaminic acid (D033)*
- 10:00 **Keynote 3: Won Ho Yang**, Yonsei Univ., Korea  
*A functional study of O-GlcNAcylation on RNA binding protein RBM14 (D034)*
- 10:30 **Hirokazu Yagi**, Nagoya City Univ., Japan  
*PCYT2-mediated glycerol phosphate modification of  $\alpha$ -Dystroglycan disrupts matriglycan elongation and thereby enhances colorectal cancer metastasis (A087)*
- 10:45 **Yung-Kuo Lee**, Kaohsiung Armed Forces General Hospital, Taiwan  
*Long-term DEHP/MEHP exposure promotes colorectal cancer stemness associated with glycosylation (A104)*

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14:00-16:00 **Session 2C2: ACGG II**

*Chairs: Atit Silsirivanit, Yasuhiko Kizuka*

- 14:00 **Keynote 1: Yasuhiko Kizuka**, Gifu Univ., Japan  
*Regulation and protein selectivity of N-glycan branching enzymes (D035)*
- 14:30 **Keynote 2: Atit Silsirivanit**, Khon Kaen Univ., Thailand  
*Glycan: A target for diagnosis and treatment of brain tumors (D036)*
- 15:00 **Kei-ichiro Inamori**, Tohoku Medical and Pharmaceutical Univ., Japan  
*Altered expression of glycosphingolipids and its possible significance in ulcerative colitis (A114)*
- 15:20 **Kazuchika Nishitsuji**, Wakayama Medical Univ., Japan  
*Glycan-mediated prion-like behavior of mutant p53 aggregates and their possible role in cancer pathogenesis (A089)*
- 15:40 **Pei-Shan Sung**, Academia Sinica, Taiwan  
*Inhibition of SARS-CoV-2-mediated thromboinflammation by CLEC2.Fc (A075)*

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@3rd & 4th Floor Hallway

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16:00-18:00 **Poster Session I** (with Coffee served)

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# Aug 30 Wednesday Day 4

Track A @International Conference Hall, 3F

## 09:00-11:00 **Session 3A1: Chemical Glycobiology**

*Chairs: Matthew Pratt, Chun-Cheng Lin*

- 09:00 **Keynote 1: Laurence Mulard**, Pasteur Institute, France  
*Synthetic glycan-based vaccines to combat bacterial diseases: from concept to first-in-human data and beyond (D037)*
- 09:30 **Keynote 2: Xing Chen**, Peking Univ., China (online presentation)  
*Labeling, imaging and proteomics of brain glycans (D038)*
- 10:00 **David Kwan**, Concordia Univ., Canada  
*Controlling cellular sugar-coating to combat cancer (B006)*
- 10:15 **Yu Liu**, Imperial College, UK  
*Glycosyltransferase engineering to dissect N-linked protein glycosylation (B008)*
- 10:30 **Thomas Haselhorst**, Griffith Univ., Australia  
*Discovery of new antifungals in the fight against invasive fungal infections (A154)*
- 10:45 **Cheng-I Yao**, Academia Sinica, Taiwan  
*Structural analysis of the lipid A from *Parabacteroides goldsteinii* (A079)*

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## 11:00-11:20 **Coffee Break**

@Lobby, 4F

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## 11:20 **Plenary 5: Matthew R Pratt**, Univ. of Southern California, USA

*Chaired by: Todd Lowary*

*Build it to understand it: O-GlcNAc modification plays multiple protective roles against protein amyloid aggregation and pathogenesis (D008)*

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## 12:00-13:30 **Lunch**

@Communal area, 3F

### or **Luncheon Seminar 3: Thermo Fisher Scientific**

@Recreation Hall, 4F

**Weijing Liu**

*Recent developments in the analysis of glycoproteins on orbitrap platforms*

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## 13:30-16:00 **Session 3A2: Special Open Session on Chemistry and Synthesis for Glycobiology**

*Chairs: Cheng-Chung Wang, Jiun-Jie Shie*

- 13:30 **Keynote 1: Yasuhiro Kajihara**, Osaka Univ., Japan  
*N-glycans on proteins (D039)*
- 14:00 **Keynote 2: Shang-Cheng Hung**, Academia Sinica, Taiwan  
*Probing specific interactions of synthetic heparan sulfate saccharides and disease-related proteins (D040)*
- 14:30 **Carolyn Neu**, Martin-Luther Univ. Halle-Wittenberg, Germany  
*Ac3ManNAc-6-phosphoramidate prodrugs as potential new treatment for GNE myopathy (A113)*
- 14:45 **Eline Visser**, Radboud Univ. Nijmegen, Netherlands  
*Studying metabolic inhibitors of glycosylation for potential therapeutic use (B013)*



- 15:00 **Tsung-Han Ho**, National Tsing Hua Univ., Taiwan  
*Chemoenzymatic synthesis of asymmetrically branched human milk oligosaccharides, Part 3: LNnO and its derivatives (B019)*
- 15:15 **Hsin-Kai Tseng**, National Tsing Hua Univ., Taiwan  
*Substrates promiscuities of bacterial glycosyltransferases enable acceptor-mediated regioselective enzyme-catalyzed glycosylation (B046)*
- 15:30 **Mohammad Anwar**, Academia Sinica, Taiwan  
*Chemoenzymatic synthesis of fluorophore-labelled *K. pneumoniae* O2a O-PS probes (B035)*
- 15:45 **Huang-Yi Li**, Academia Sinica, Taiwan  
*Insights into dibasic iminosugars as pH-selective pharmacological chaperones to stabilize human  $\alpha$ -galactosidase (B016)*

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Track B @2nd Conference Room, 3F

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09:00-11:00 **Session 3B1: Glycans in Cancer, Immunity and Infection**

*Chairs: Nathalie Juge, Yung-Chi Chang*

- 09:00 **Keynote 1: Vered Padler-Karavani**, Tel Aviv Univ., Israel  
*Glycans in immune recognition and response (D041)*
- 09:30 **Keynote 2: Mary Jackson**, Colorado State Univ., USA  
*Molecular signals controlling the biosynthesis and biological activities of cell envelope (lipo)polysaccharides in *Mycobacterium tuberculosis* (D042)*
- 10:00 **Celso A Reis**, Univ. of Porto, Portugal  
*Altered glycosylation in cancer affects cellular receptor tyrosine kinases and regulates cancer cell sensitivity to therapeutic drugs (A112)*
- 10:20 **Freda Jen**, Griffith Univ., Australia  
*Targeting the glyco-achilles heel of *Neisseria gonorrhoeae*: A new strategy for vaccines to prevent Gonorrhoea (A063)*
- 10:40 **Elisa Fadda**, Maynooth Univ., Ireland  
*Changing the coat: Evolution of the SARS-CoV-2 S glycan shield and its role in modulating viral infection (A066)*

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13:30-15:30 **Human Glycoproteomics Initiative Workshop**

*Coordinators: Morten Thaysen-Andersen, Daniel Kolarich, Kay-Hooi Khoo*

*Speakers and Panelists: Morten Thaysen-Andersen, Macquarie Univ.; Stacy Malaker, Yale Univ.; Giuseppe Palmisano, Macquarie Univ.*

*Online presentation: Shisheng Sun, Northwest Univ.; Mingliang Ye, Chinese Academy of Sciences, Dalian; Wen-Feng Zeng, Max Planck Institute*

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Track A @International Conference Hall, 3F

**09:00-11:00 Session 4A1: GAGs & Proteoglycans**

*Chairs: Hiroshi Kitagawa, Ivan Dzhagalov*

- 09:00 **Keynote 1: Ryan Weiss**, Univ. of Georgia, USA  
*Genome-wide analysis of heparin sulfate assembly (D043)*
- 09:30 **Keynote 2: Linda Hsieh-Wilson**, California Institute of Technology, USA  
*Decoding glycosaminoglycan-protein interactions (D044)*
- 10:00 **Fredrik Noborn**, Univ. of Gothenburg, Sweden  
*The glycosaminoglycan glycoproteome – How many proteoglycans are out there? (A128)*
- 10:20 **Hsuan-Po Hsu**, National Yang-Ming Chiao Tong Univ., Taiwan  
*Heparan sulfate is essential for thymus growth during development (A124)*
- 10:40 **Shuhei Yamada**, Meijo Univ., Japan  
*Hereditary bone disorders caused by reduced activity of xylosyltransferases involved in glycosaminoglycan biosynthesis (A118)*

11:00-11:20 **Coffee Break**

@Lobby, 4F

**11:20 Plenary 6: Hiroshi Kitagawa**, Kobe Pharmaceutical Univ., Japan

*Chaired by: James Paulson*

*Sulfated glycosaminoglycans - Studies in diversity (D009)*

12:00-13:20 **Lunch**

or **Luncheon Seminar 4: SCIEX**

**Pei Chen Lin**

*A novel fragmentation technology allows for in-depth glycopeptide characterization in glycoproteins*

@Communal area, 3F

@Recreation Hall, 4F

**13:20 Plenary 7: Lara Mahal**, Univ. of Alberta, Canada

*Chaired by: Celso Reis*

*Rethinking the paradigm: New roles for non-coding RNA in controlling the cancer glycome (D010)*

**14:00-16:00 Session 4A2: Glyco Neurobiology**

*Chairs: Rita Gerardy-Schahn, Yijiang Chern*

- 14:00 **Keynote 1: Kenji Kadomatsu**, Nagoya Univ., Japan  
*Cross-talk of glycosaminoglycans and cell surface receptors in neural wiring/rewiring (D045)*
- 14:30 **Keynote 2: Jessica CF Kwok**, Univ. of Leeds, UK  
*A sugar coat on neuronal surface: the supramolecular assembly of glycosaminoglycans and glycoproteins in regulating neuroplasticity (D046)*

- 15:00 **Lianchun Wang**, Univ. of South Florida, USA  
*Vascular heparan sulfate and amyloid- $\beta$  Immunopositivity increases in Alzheimer's disease patients with cerebral amyloid angiopathy (A116)*
- 15:15 **Debapriya Kundu**, Academia Sinica, Taiwan  
*Deciphering the mechanistic link between O-GlcNAcylation and Tau proteinopathy in Alzheimer's disease (A134)*
- 15:30 **John Monyror**, Univ. of Alberta, Canada  
*Gangliosides modulate the secretion of extracellular vesicles and their misfolded protein cargo (A130)*
- 15:45 **Travel Award: Giulia Lunghi**, Univ. of Milano, Italy  
*Glycosylceramide lysosomal accumulation leads to metabolic alterations underlying neuronal degeneration in GCase-related pathologies (A015)*

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Track B @2nd Conference Room, 3F

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09:00-11:00 **Session 4B1: Plant Cell Wall and Glycosylation**

*Chairs: Els van Damme, Lay-Sun Ma*

- 09:00 **Keynote 1: Debra Mohnen**, Univ. of Georgia, USA  
*Pectic glycoconjugates in plant cell walls: Working toward understanding their structure, synthesis and function (D047)*
- 09:30 **Keynote 2: Harry Brumer**, Univ. of British Columbia, Canada  
*The human gut microbiota-plant cell wall nexus (D048)*
- 10:00 **Chibbhi KB**, Academia Sinica, Taiwan  
*Ustilago maydis N-glycosylation dependent virulent effector ALE1 targets maize ZmTaxi to counteract its attack on UmXylanase11A (A142)*
- 10:20 **Leela Siva Ranjani Vutharadhi**, Univ. of Hyderabad, India  
*A novel alpha-galactosidase from Momordica charantia (bitter gourd) seeds – Lectin-affinity purification, biochemical characterization and possible physiological functions (A140)*
- 10:40 **Els JM van Damme**, Ghent Univ., Belgium  
*Cell-wall associated glycosyl hydrolase 27 with  $\alpha$ -D-galactosidase/ $\beta$ -L-arabinopyranosidase activity from rice (A143)*

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14:00-16:00 **Session 4B2: Systems Glycobiology**

*Chairs: Kiyoko Aoki-Kinoshita, Yuh-San Jou*

- 14:00 **Keynote 1: Sriram Neelamegham**, State Univ. of New York at Buffalo, USA  
*Systems level studies of viral infection: Roles for site-specific glycosylation, biochemical pathways and intracellular lectins (D049)*
- 14:30 **Keynote 2: Daniel Bojar**, Univ. of Gothenburg, Sweden  
*An interface is worth a thousand pictures: An integrated systems approach to glycobiology (D050)*
- 15:00 **Ratmir Derda**, Univ. of Alberta, Canada  
*Genetically-encoded liquid glycan arrays explore protein-glycan interactions in vivo (C001)*

- 15:20 **Taiki Saito**, National Institutes of Natural Sciences, Japan  
*Molecular networks involving glycosyltransferases characterized by proximity labeling (A013)*
- 15:40 **Hiroaki Tateno**, National Institute of Advanced Industrial Science and Technology, Japan  
*Droplet-based glycan and RNA Sequencing for profiling the distinct cellular glyco-states in single cells (C018)*

@3rd & 4th Floor Hallway

16:00-18:00 **Poster Session II (with Coffee served)**

19:00-21:00 **Gala Dinner**

Peng's Gourmet & Banquet, 6F

# Sep 01 Friday

# Day 6

Track A @International Conference Hall, 3F

09:00-11:00 **Session 5A1: Engineering Cellular Glycosylation & Synthetic Glycobiology**

*Chairs: John Yu, Alice Yu*

- 09:00 **Keynote 1: Matthew DeLisa**, Cornell Univ., USA  
*Making weak antigens strong: exploiting bacterial outer membrane vesicles for delivering glycans to the immune system (D051)*
- 09:30 **Keynote 2: Yoshiki Narimatsu**, Univ. of Copenhagen, Denmark  
*Cell-based mucin array for discovery and characterization of mucinase and glycan-binding modules (D052)*
- 10:00 **Christian Büll**, Radboud Univ. Nijmegen, Netherlands  
*Unraveling of the human sialylation network (A007)*
- 10:15 **Thomas Rexer**, Max Planck Institute, Germany  
*Chemoenzymatic glycosylation of polypeptides using eukaryotic oligosaccharyltransferase and synthetic lipid-linked glycans (B005)*
- 10:30 **Travel Award: Thapakorn Jaroentomeechai**, Univ. Copenhagen, Denmark  
*A cell-based production pipeline for mammalian glycopeptides and glycans (B001)*
- 10:45 **Travel Award: Jaesoo Jung**, Univ. of Alberta, Canada  
*Elucidating the sulfated glycan ligands for Siglec-3 and -8 expressed on microglia (A028)*

11:00-11:20 **Coffee Break**

@Lobby, 4F

11:20 **Plenary 8: Inka Brockhausen**, Queen's Univ., Canada (online presentation)

*Chaired by: Philippe Delannoy*

*Mucins and bacteria: Functional relationships (D011)*

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**12:00-12:30 Closing Ceremony**

Including Travel and Poster Award Ceremony, and Presentation for Glyco27

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Track B @2nd Conference Room, 3F

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**09:00-11:00 Session 5B1: Developmental Glycobiology**

*Chairs: Alexey Pshezhetsky, Tadashi Suzuki*

- 09:00 Keynote 1: Hamed Jafar-Nejad**, Baylor College of Medicine, USA  
*Targeting POGlut1 to promote biliary development in mouse models of Alagille Syndrome (D053)*
- 09:30 Keynote 2: Anja Münster-Kühnel**, Hannover Medical School, Germany  
*Novel functions of polysialic in kidney development (D054)*
- 10:00 Ken Kitajima**, Nagoya Univ., Japan  
*Discovery, distribution, and biological significance of the sialic acid-specific sulfotransferases in vertebrates (A135)*
- 10:20 Kenjiroo Matsumoto**, Gifu Univ., Japan  
*Distinct roles of O-fucose on Notch trafficking in humans and Drosophila (A137)*
- 10:40 Shoko Nishihara**, Soka Univ., Japan  
*O-GlcNAcylation regulates stem cell pluripotency through P-body formation (A139)*
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