2018 Society for Glycobiology Annual Meeting
Hilton New Orleans Riverside Hotel, New Orleans, LA
November 5-8, 2018

DAY 1: Monday, Nov 5, 2018

8:00AM – 6:00PM  Registration

9:00AM – 4:00PM  Satellite 1: Tools for Glycoscience
9:00AM – 4:00PM  Satellite 2: Bioinformatics workshop
1:00PM – 3:00PM  Board of Directors Meeting

5:30PM – 7:15PM  Session 1: Meyer and Kornfeld Awards Lectures
  5:30PM - 5:45PM  Conference Opening Remarks
  5:45PM - 6:30PM  Karl Meyer Award Lecture:
  6:30PM - 7:15PM  Rosalind Kornfeld Award Lecture:

7:30PM – 9:30PM  Welcome Reception & Exhibits

DAY 2: Tuesday, Nov 6, 2018

7:30AM – 8:30AM  Continental Breakfast

8:30AM – 10:00AM  Session 2: Glycan biosynthesis, transport and quality control
  Session chair: Rich Steet (University of Georgia)
  8:30AM - 9:00AM  Stuart Kornfeld (Washington University in St.Louis)
    Recycling of Golgi Glycosytransferases Requires Direct Binding to Coatomer
  9:00AM - 9:20AM  Simon Newstead (University of Oxford)
    Structural basis for nucleotide sugar transport across the ER and Golgi membranes

  9:20AM - 9:40AM  Frederic Bard (Institute of Molecular and Cell Biology, A*STAR, Singapore)
    The GALA pathway and the O-glycans invasion program

  9:40AM - 9:45AM  Poster talk:
  9:45AM – 10:10AM  Coffee Break

  10:10AM – 12:30PM  Session 3: Structural basis for glycan biosynthesis
  Session chair: Bob Haltiwanger (University of Georgia)
  10:10AM - 10:35AM  Kaspar Locher (ETH Zurich)
    Structure and mechanism of eukaryotic oligosaccharyltransferase complex
  10:35AM - 11:00AM  Huilin Li (Van Andel Research Institute)
    Structural mechanism of the eukaryotic oligosaccharyl transferase complex
  11:00AM - 11:15AM  Tadashi Satoh (Nagoya City University, Japan)
    Structural mechanisms underlying the ER quality control associated with glucose tagging
  11:15AM - 11:35AM  Ramon Hurtado-Guerrero (University of Zaragoza, Spain)
    Structural and mechanistic insights into GalNAc-type O-glycosylation
  11:35AM - 12:05PM  James Rini (University of Toronto)
    The structural basis for Protein-O-glycosylation of EGF-like and TSR domains
  12:05PM -12:20PM  Zac Wood (University of Georgia)
Origin of acceptor specificity in GT-A fold GlcNAc transferases

12:20PM - 12:25PM  Poster talk:
12:25PM - 12:30PM  Poster talk:

12:30PM – 1:30PM  Lunch on your own

12:30PM – 1:30PM  Glycobiology Editorial Board Meeting

1:30PM – 4:00PM  Session 4: Glycan Function and Disease I
Session chair: Hans Wandall (University of Copenhagen)

4:00PM - 4:20PM  Adam Barb (Iowa State University)
Cell lineage impacts CD16a / Fc gamma Receptor 3a structure and antibody binding affinity through N-glycan composition

4:20PM - 4:35PM  Hiren Joshi (University of Copenhagen)
Data in the driver’s seat for exploring the glycome

4:35PM - 4:55PM  Robert Anthony (Harvard Medical School)
Engineering anti-inflammatory IgG in vivo

4:55PM - 5:15PM  Karin Hoffmeister (Medical College of Wisconsin)
Novel Insights into the Role of Glycans in the Bone marrow Niche

5:10PM - 5:15PM  Poster talk:
5:15PM - 5:20PM  Poster talk:
5:15PM - 5:20PM  Poster talk:
5:20PM - 5:25PM  Poster talk:

5:30PM – 6:30PM  Session 5: Innovator Award Lecture: Henrik Clausen (University of Copenhagen)  Turning glycomics into Lego-toying

DAY 3: Wednesday, Nov 7, 2018

7:30AM – 8:30AM  Continental Breakfast

8:30AM – 10:00AM  Session 6: Glycoengineering and glyco-synthetic tools
Session chair: Peng Wu

8:30AM - 8:50AM  Peng Wu (Scripps Research Institute)
Engineering cells via chemoenzymatic glycan editing

8:50AM - 9:10AM  Matt Delisa (Cornell University)
Glycoengineering without borders: bacteria-enabled cell-free glycoprotein synthesis

9:10AM - 9:30AM  Sabine Flitsch (University of Manchester, UK)
Microbial glycoenzymes for carbohydrate synthesis and analysis

9:30AM - 9:45AM  Tim Keys (ETH Zurich)
Engineering the next generation of glycoprotein therapeutics and vaccines in bacteria

9:45AM - 10:00AM  Matt Macauley (University of Alberta)
New Platforms for the Discovery of Natural and Synthetic Siglec Ligands

10:00AM - 10:05AM  Poster talk:
10:05AM - 10:10AM  Poster talk:

10:10AM – 10:30AM  Coffee Break

10:30AM – 12:15PM  Session 7: Glycan synthesis and function in parasites, pathogens, and microbes
Session chair: Markus Aebi

10:30AM - 10:50AM  Emma Slack (ETH Zürich Switzerland)

  How IgA-bacterial glycan interactions can protect the intestine

10:50AM - 11:05AM  Tamara Doering (Washington University School of Medicine)

  Capsule synthesis in the fungal pathogen Cryptococcus neoformans

11:05AM - 11:25AM  Chris Whitfield (University of Guelph)

  Capsular glycolipids in Gram-negative bacterial pathogens

11:25AM - 11:45AM  Giulia Bandini (Boston University)

  O-fucosylation of nucleocytoplasmic proteins in Toxoplasma gondii and Cryptosporidium parvum

11:45AM - 12:05PM  Nina Papavasilou (German Federal Cancer Research Center)

  Sugars Increase the "Diversity-Space" of Trypanosoma Brucei Antigenic Variation

12:05PM - 12:10PM  Poster talk:

12:10PM - 12:15PM  Poster talk:

12:15PM - 12:20PM  Poster talk:

12:20PM - 12:25PM  Poster talk:

12:25PM – 1:30PM  Lunch on your own

1:30PM – 4:00PM  Poster Session II and Exhibits

4:00PM – 4:45PM  SFG Business Meeting

4:45PM – 6:15PM  Session 8: MCP and Glycobiology Significant Achievement Award Lectures

  4:45PM - 5:30PM  Molecular and Cellular Proteomics Award Lecture:
  5:30PM - 6:15PM  Glycobiology Significant Achievement Award Lecture:

6:15PM – 7:00PM  Break

7:00PM – 11:00PM  Banquet

DAY 4: Thursday Nov 8, 2018

7:30AM – 8:30AM  Continental Breakfast

8:30AM – 9:50AM  Session 9: Developmental and model systems

  Session chair: Mike Tiemeyer

  8:30AM - 8:50AM  Mike Tiemeyer (University of Georgia)

    Glycan glucuronylation balances cell signaling during ovarian development

  8:50AM - 9:10AM  Giovanni Deangelo (Institute of Protein Biochemistry, National Research Council of Italy, Naples)

    Glycosphingolipid metabolic reprogramming in neural differentiation

  9:10AM - 9:25AM  Hideyuki Takeuchi (Nagoya University School of Medicine)

    Significant roles of O-glucose glycans in mammalian Notch trafficking and signaling

  9:25AM - 9:40AM  Liping Zhang (National Institute of Dental and Craniofacial Research)

    Investigating the role of mucin-type O-glycosylation in secretory granule formation

  9:40AM - 9:55AM  Vlad Panin (Texas A&M University)

    Protein O-mannosylation regulates axon wiring in the nervous system of Drosophila

  9:55AM - 10:00AM  Poster talk:
  10:00AM - 10:05AM  Poster talk:

10:05AM – 10:30AM  Coffee Break
10:30AM – 12:00AM Session 10: Plant glycan and cell wall biology  
Session chair: Bree Urbanowicz

10:30AM - 10:50AM  Bree Urbanowicz (University of Georgia)  
Structural and biochemical insights into the mechanism of plant polysaccharide acetylation

10:50AM - 11:10AM Harry Brumer (University of British Columbia)  
Strength through diversity: The evolution of plant cell wall glucan-active enzymes in GH16

11:10AM - 11:30AM  Henrick Scheller (Lawrence Berkeley National Laboratory)  
Sphingolipid glycosylation and its role in membrane organization and plant-microbe interactions

11:15AM - 11:30AM  Wade Abbott (University of Lethbridge)  
Functional characterization of strain-specific glycan metabolism and single-cell visualization of glycan uptake within bacteria from the rumen microbiome

11:30AM - 11:45AM  Federica Brandizzi (Michigan State University)  
Impact of cell wall carbohydrates on plant growth

11:45AM - 11:50AM Poster talk:

11:55AM - 12:00PM Poster talk:

12:00AM – 1:30PM Lunch on your own

1:30PM – 3:00PM Session 11: Glycan function and Disease II  
Session chair: Adam Barb

1:30PM - 1:50PM  Thomas Clausen (University of Copenhagen)  
Targeting Oncofetal Chondroitin Sulfate for Cancer Therapy and Diagnosis

1:50PM - 2:10PM  Kevin Strauss (Clinic for Special Children, Strasburg, PA)  
Plain People and Precision Medicine: Lessons from a rural clinic

2:10PM - 2:30PM  Sasirekha Ramani (Baylor College of Medicine)  
New Frontiers in Rotavirus and Human Milk Oligosaccharide Interactions

2:30PM - 2:35PM Poster talk:

2:35PM - 2:55PM  Yoshiki Narimatsu  
Glycoengineering using GlycoCRISPR toolbox- Towards Cell-based Glycan Array for Dissection of Interactions with Glycans

2:55PM - 3:15PM Heinz Laubli (University Hospital Basel)  
Targeting sialoglycan-mediated immune suppression for cancer immunotherapy

3:15PM - 3:25PM Celso Reis (University of Porto, Portugal)  
Glycosylation in Cancer – targeting tumor heterogeneity and therapeutic implications

3:00 PM – 3:30PM Closing Remarks