

Vinoy Renaissance St. Petersburg Resort & Golf Club St. Petersburg, Florida

Meeting Program

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PARTNER





















Sunday, November 17th

7:30 am - 7:00 pm

Registration Desk

Location: Vinoy Foyer

8:30 am - 6:00 pm Exhibit Set-up

Location: Palm Court Ballroom/foyer

8:00 am - 5:00 pm

New! Junior Scientist Pre-Conference

(SFG Networking and Career Mentoring Pre-Conference)

Location: Plaza Ballroom A

Registration: \$50

Chairs: Richard and Heather Steet, University of

Georgia CCRC

Open to Graduate Students and Post-Docs (0-5 Years experience) in GlycoScience

In an effort to bring young scientists together to discuss their current research, build informal networks with their peers and gain career mentorship, the Society for Glycobiology hosts this 1-day preconference. Organized and supported by a faculty of eight leading scientists from the Society, this preconference will be centered around scientific talks and poster presentations chosen from conference abstracts submitted by graduate students and postdocs. In addition, prospective talks will be given by glycoscientists working in diverse areas of clinical and basic research to provide a platform for discussing the many career paths and opportunities available to emerging Ph.D. scientists.

8:30 am - 5:30 pm

Satellite Symposium I: Glycoprotein Technologies

Location: Plaza Ballroom B

Registration: \$50

Chairs: Wesley Wang, Amgen; Sam Tep, Biogenidec

The scope of this session encompasses all areas of glycoprotein technologies, ranging from bioprocess control through downstream analytical/characterization techniques. Functional studies and Structure-Activity-Relationship (SAR) studies, efforts regarding the challenges in the production of biosimilars and follow-on biologics, as well as efforts in the characterization and analysis of O-glycosylation, are all included.

9:00AM - 4:00PM

Satellite Symposium II: Consortium for Functional Glycomics (CFG): Development and Application of Transformative Technologies in Glycobiology

Location: Vinoy Grand Ballroom

Registration: \$50

Chairs: Brian A. Cobb, Case Western Reserve Univ. College of Medicine; Christine Szymanski, Alberta Glycomics Centre, Univ. of Alberta

This satellite symposium is focused upon recent technological advances in glycomics, and how these novel tools have been successfully applied to better understand critical biological processes and diseases. Upon the completion of this symposium, attendees will be aware of these emerging technologies as well as collaborative and service-based opportunities to apply them to their particular research interests.

7:00 - 7:10 pm

Conference Opening Remarks

Location: Vinoy Grand Ballroom Christopher M. West, President, Society for Glycobiology

7:10 - 8:25 pm

Keynote Lecture/Session I: Glycoproteomics, Polysaccharides, and Glycomics

Location: Vinoy Grand Ballroom

Chair: Anne Dell, Imperial College London

Abstract Oral Presentation

#1 **7:10:** The importance of electron transfer mass spectrometry in advancing our understanding of structural glycobiology; **AI Burlingame**; *University of California San Francisco.*

*Keynote Lecture sponsored by MCP/ASBMB

- #2 7:35: NextGen sequencing for the identification of glycosyltransferases involved in plant cell wall polysaccharide biosynthesis; Markus Pauly¹, Alex Schultink¹, Jacob Jensen²; ¹UC Berkeley; ²Michigan State University
- #3 **8:00:** Glycomics and glycoproteomics-providing new biological insights; **Stuart Haslam**, Maria Panico, Howard Morris, Anne Dell; *Imperial College London*

8:25 - 9:05 pm

Rosalind Kornfeld Award for Lifetime Achievement in Glycobiology Award Presentation

Location: Vinoy Grand Ballroom/Foyer

Chair: Naoyuki Taniguchi, RIKEN Introduction: Patricia Berninsone; University of Nevada, Reno

2013 Recipient: Carlos Hirschberg; Boston University Goldman School of Dental Medicine

9:05 - 10:05 pm

Welcome Reception

Location: Palm Court Ballroom

Monday, November 18th

7:30 am - 4:00 pm

Registration Desk

Location: Vinoy Foyer

Speaker Ready Room

Location: Taylor Room

7:30 - 8:30 am

Continental Breakfast

Sponsored by: **Promega Corporation**

Location: Palm Court Ballroom

8:30 - 10:00 am

Session II: Developmental Glycobiology

Location: Vinov Grand Ballroom

Chair: Michael Tiemeyer, Univ. of Georgia CCRC

Abstract Oral Presentation

#4 **8:30:** Role of O-glucose glycans in animal development; **Hamed Jafar-Nejad**², Amanda R. Haltom¹, Tom V. Lee², Beth Harvey³, Jessica Leonardi², Robert S. Haltiwanger³; ¹University of Texas Health Science Center; ²Baylor College of Medicine; ³Stony Brook University

#5 **8:55:** The in vivo function of Drosophila CMP-sialic acid synthetase; **Hilary Scott**, Rafique Islam, Courtney Caster, Mark J. Zoran, Vladislav M. Panin; *Texas A&M University*

*selected talk-poster #48

#6 **9:00:** O-fucosylation and development; **Robert Haltiwanger**, Deepika Vasudevan, Christina Leonhard-Melief; *Stony Brook Univ.* #7 **9:25:** Glycosyltransferases as systemic regulators of blood cell development; **Joseph Lau**; *Roswell Park Cancer Institute*

#8 **9:50:** Possible role of cathepsin-mediated growth factor activation in the pathogenesis of mucolipidosis II; **Megan Aarnio**, Heather Flanagan-Steet, Aaron Petrey, Richard Steet; *CCRC University of Georgia**selected talk-poster #188

#9 9:55: A murine knockout of the human diabetes susceptibility locus Oga contributes to acute and chronic nutrient sensing defects; Dona Love, Chithra Keembiyehetty, Oksana Gavrilova, Marcy Comly, Katryn Harwood, John Hanover; NIDDK, NIH

*selected talk-poster #108

10:00 - 10:30 am

Coffee Break

Location: Tea Garden

10:30 am - 12:25 pm

Session III: Glycosylation, the Secretory Pathway, and Biosynthesis

Location: Vinoy Grand Ballroom

Chair: Richard Cummings, Emory University

Abstract Oral Presentation

#10 **10:30:** Synthesis and membrane translocation of cellulose; **Jochen Zimmer**, *University of Virginia*

#11 **10:55:** Identification of a GlcA transferase involved in biosynthesis of glycosyl inositol phosphorylceramide sphingolipids in plants; **Henrik Scheller**¹, Emilie Rennie¹, Joshua Heazlewood¹, Solomon Stonebloom², Tsan-Yu Chiu¹, Katy Christiansen¹, Godfrey Miles³, Paul Dupree³; ¹Lawrence Berkeley National Laboratory; ²University of Copenhagen, Denmark; ³University of Cambridge, UK *selected talk-poster #49

#12 **11:00:** GDP-Mannose transport in Cryptococcus neoformans is mediated by two distinct proteins and is dispensable for viability; **Zhuo Wang**, Matthew Williams, Tamara Doering; *Washington University School of Medicine*

*selected talk-poster #126

#13 **11:05:** Genetic analysis of Mannosylphosphoryltransferases required for the synthesis of the Leishmania surface glycocalyx; **Stephen M. Beverley**¹, Hongjie Guo¹, Fong-Fu Hsu¹, Megan Philips², Salvatore Turco²;

1 Washington University School of Medicine;
2 University of Kentucky Medical Center
*selected talk-poster #127



- #14 **11:10:** Signaling by free mannose-6-phosphate; **Mark Lehrman**; *UT Southwestern Medical Center*
- #15 **11:35:** Mucin-type O-glycosylation is required for polarized secretion in the Drosophila digestive system; **Kelly G. Ten Hagen**, Liping Zhang; *National Institute of Dental and Craniofacial Research, NIH**selected talk-poster #50
- #16 11:40: Characterizing a missense mutation in O-GlcNAc transferase that segregates with disease in a family with X-linked Intellectual Disability; Krithika Vaidyanathan¹, Tejasvi Niranjan², Melanie May³, Rebecca Rose², Chin Fen Teo¹, Sindhu Prabakaran¹, Robert Bridger¹, Emil Alexov⁴, Tao Wang², Charles Schwartz³, Lance Wells¹; ¹CCRC, University of Georgia; ²Johns Hopkins-McKusick-Nathans Institute of Genetic Medicine; ³Greenwood Genetic Center; ⁴Clemson University
 *selected talk-poster #109
- #17 **11:50:** Laminin-binding glycosylation on alpha-dystroglycan and its biosynthetic pathway; **Takako Yoshida-Moriguchi**, Tobias Willer, Mary Anderson, David Venzke, Liping Yu, Kevin Campbell; *University of Iowa Roy J. and Lucille A. Carver College of Medicine**Young Investigator Award sponsored by BBA General Subjects
- #18 12:15: Differential Golgi targeting of ßgalactoside:α2-3sialyltransferase-1 and core 2 N-acetylglucosaminyltransferase-L/1 in advanced prostate cancer cells; Pi Wan Cheng, Armen Petrosyan; VA Nebraska Western Iowa Health Care System and University of Nebraska Medical Center *selected talk-poster #51
- #19 **12:20:** Pathways and regulation of IgA1
 O-glycosylation in an autoimmune disease,
 IgA nephropathy; **Jan Novak¹**, Kazuo
 Takahashi¹, Hitoshi Suzuki¹, Milan Raska¹,
 Tyler Stewart¹, Koshi Yamada¹, Colin Reily¹,
 Hiroyuki Ueda¹, Zhi-Qiang Huang¹, Audra
 Hargett¹, Stacy Hall¹, Milada Stuchlova
 Horynova¹, Zina Moldoveanu¹, Jiri Mestecky¹,
 Bruce A. Julian¹, Ali G. Gharavi², Krzysztof
 Kiryluk², Mathew B. Renfrow¹; ¹University of
 Alabama at Birmingham; ²Columbia Univ.
 *selected talk-poster #150
- #20 **12:25:** GOLPH3 regulates integrin-mediated biological functions via up-regulation of sialylation; **Jianguo Gu**, Tomoya Isaji, Sanghun Im, Tomohiko Fukuda; *Tohoku Pharmaceutical University**selected talk-poster #165

12:30 - 2:00 pm

Lunch on Your Own

12:30 - 2:00 pm

Glycobiology Editorial Board Meeting Lunch (Invitees only)

Location: Thomasson Room

2:00 - 4:00 pm

Poster Session I and Exhibits

Coffee break provided

Location: Palm Court Ballroom

4:00 - 6:00 pm

Session IV: Metabolism, Recognition, and Signaling

Location: Vinoy Grand Ballroom

Chair: Gerald Hart, Johns Hopkins University

Abstract Oral Presentation

- #21 **4:00:** Non-lysosomal degradation pathway for N-glycans; cases in yeast and mammalian cells; **Tadashi Suzuki**, Rachel Kubiak, James Thoden; *RIKEN Global Research Cluster, Japan*
- #22 **4:25:** Structural insights into novel deoxysugar biosynthesis in bacteria; **Hazel Holden**, *University of Wisconsin- Madison*
- #23 **4:50:** Discovery of novel toxin binding partners using photocrosslinking sialic acid; **Jennifer Kohler**, Amberlyn M.Wands, Akiko Fujita, Janet E. McCombs; *University of Texas Southwestern Medical Ctr.*
- #24 **5:15:** Further characterization of endogenous mouse lung proteins bearing glycan counterreceptors for Siglec-F; **Toshihiko Katoh**¹, Takumi Kiwamoto², Christopher Evans³, Mary Brummet², Sherry Hudson², Zhou Zhu², Bruce Bochner², Michael Tiemeyer¹; ¹CCRC, Univ. of Georgia; ²Johns Hopkins Univ. School of Medicine; ³Univ. of Colorado School of Medicine *selected talk-poster #151
- #25 **5:20:** Context dependent glycan recognition through the next generation of glycan microarray; **Geert-Jan Boons**, *Univ. of Georgia CCRC*
- #26 **5:45:** Reductionist model systems to probe biological and molecular mechanisms of O-GlcNAc signalling; **Daniel van Aalten**, *Univ. of Dundee**selected talk-poster #110
- #27 **5:50:** O-GlcNAc regulated arginine methylation: a novel paradigm in survival signaling; **Natasha Zachara**, Albert Lee, Kamau Fahie, Roger Henry, Devin Miller; Johns Hopkins University School of Medicine *selected talk-poster #77
- #28 **5:55:** Increased O-GlcNAcylation of Mitochondrial Proteins Directly Contributes to ROS Production in Diabetes; **Junfeng Ma**, Ting Liu, Brain O'Rouke, Gerald Hart; *Johns Hopkins University**selected talk-poster #111

Tuesday, November 19th

7:30 am - 4:00 pm

Registration Desk

Location: Vinoy Foyer

Speaker Ready Room

Location: Taylor Room

7:30AM - 8:30AM

Continental Breakfast

Sponsored by: Galen Laboratory Supplies & Iduron

Location: Palm Court Ballroom

8:30AM - 10:00AM

Session V: Inhibitors

Location: Vinoy Grand Ballroom

Chair: Ole Hindsgaul, Carlsberg Laboratory

Abstract Oral Presentation

#29 **8:30:** From carbohydrates to glycomimetics - is there a general recipe?; **Beat Ernst**, University of Basel

#30 **8:55:** Sweet Contacts - Guiding inhibition of carbohydrate-protein interactions with NMR; **Thomas Peters**; *University of Luebeck*

#31 **9:20:** Rivipansel (GMI-1070), a glycomimetic pan-selectin antagonist, inhibits activation and thrombosis in animal models as well as functional biomarkers in sickle cell patients; **John Magnani**¹, John Patton¹, Henry Flanner¹, Daniel Myers², TedWun⁴, Helen Thackray¹, Scott Simon³; ¹GlycoMimetics, Inc; ²Univ. of Michigan; ³Univ. of California Davis; ⁴Univ. of California Davis School of Medicine
*selected talk-poster #122

#32 **9:25:** Glycan based inhibitors of receptors and enzymes; **Bernd Meyer**, Katrin Schaefer, Felix Niemeyer, Wei Nien Liao, Moritz Waldmann, Dennis Wilhelm, Miriam Koetzler, Patrizia Leccese; *University of Hamburg**selected talk-poster #123

#33 **9:30:** Metabolic inhibitors of glycosyltransferases as tools for glycobiology; **David Vocadlo**, Scott Yuzwa, Xiaoyang Shan, Nevena Cekic, Lehua Deng, Julia Heinonen, Keith Stubbs, Tracey Gloster, Yanping Zhu; *Simon Fraser University*

#34 **9:55:** Detection of glycosyltransferase activities with homogenous bioluminescent UDP detection assay; **Hicham Zegzouti**, Laurie Engel, Gediminas Vidugiris, Said Goueli; *Promega Corporation**selected talk-poster #19

10:00 - 10:30 am

Coffee Break

Location: Mezzanine Terrace

10:30 am - 12:30 pm

Session VI: Glycobiology of Infectious Diseases

Location: Vinoy Grand Ballroom

Chair: Anant Menon, Weill Cornell Medical College

Abstract Oral Presentation

#35 **10:30:** The expanding world of bacterial protein O-linked glycosylation; **Mario Feldman**, *Alberta Glycomics Centre-University of Alberta*

#36 **10:55:** N-Glycan biosynthesis and utilization in African trypanosomes; **James Bangs**, *University at Buffalo School of Medicine*

#37 11:20: The oocyst walls of Toxoplasma have an inner layer of β-1,3-glucan (like fungi) and an outer layer of acid-fast lipids (like mycobacteria); Edwin M. Motari¹, G. Guy Bushkin². Jitender P. Dubey³, Catherine E. Costello⁴, Phillips W. Robbins¹, John Samuelson¹; ¹Boston Univ. School of Dental Medicine; ²Massachusetts Institute of Technology; ³United States Department of Agriculture; ⁴Boston Univ. School of Medicine *selected talk-poster #128

#38 11:25: Galectin-3 is a damage-associated molecular pattern molecule, which facilitates neutrophil recruitment as an innate immune response to a parasitic protozoa cutaneous infection; Sachiko Sato, Pampa Bhaumik, Guillaume St-Pierre, Valérie Milot, Julie-Christine Levesque, Christian St-Pierre; Laval University

*selected talk-poster #129

#39 **11:30:** Immune regulation by glycans; **Brian Cobb**, Jenny L. Johnson, Mark B. Jones; *Case Western Reserve Univ. School of Medicine*

#40 11:55: Fungal chitin and the immunological end game; Neil A. R. Gow¹, Jeanette Wagener¹, R.K.S. Malireddi², Megan D. Lenardon¹, Martin Koberle³, Simon Vautier¹, Donna M. MacCallum¹, F.J. Alvarez¹, Tilo Biedermann³, Martin Schaller³, Mihai G. Netea⁴, T.D. Kanneganti², Gordon D. Brown¹, Alistair J.P. Brown¹; ¹University of Aberdeen, Aberdeen Fungal Group; ²St. Jude Children's Research Hospital; ³Eberhard Karls University Tübingen; ⁴Radboud University Nijmegen Medical Center

#41 12:20: Zebrafish galectins bind to the infectious hematopoietic necrosis virus (IHNV) glycoprotein and modulate adhesion to the host cell surface; Mihai Nita-Lazar¹, Chinnarajan Ravindran², Barbara Giomarelli¹,



Marta Pasek¹, Shawn Jackson¹, Ana de las Heras Sanchez¹, Hafiz Ahmed¹, Arun Ammayappan³, Vikram Vakharia³, Anne Dell⁴, Stuart M. Haslam⁴, Gang Wu⁴, Chiguang Feng¹, Gerardo R. Vasta¹; ¹University of Maryland School of Medicine, Institute of Marine and Environmental Technology; ²National Institute of Oceanography (CSIR); ³University of Maryland Baltimore County; ⁴Imperial College *selected talk-poster #130

#42 12:25: Human milk glycans are potential receptor decoys during neonatal rotavirus infection; Ying Yu¹, Yi Lasanajak¹, Xuezheng Song¹, Liya Hu², Sasirekha Ramani², David J. Ashline³, B.V. Venkataram Prasad², Mary K. Estes², Vernon N. Reinhold³, Richard D. Cummings¹, David F. Smith¹; ¹Emory University School of Medicine; ²Baylor College of Medicine; ³University of New Hampshire

*selected talk-poster #131

12:30 - 2:00 pm

Lunch on Your Own

12:30 - 2:00 pm

SFG Board Meeting Lunch (Invitees only)

Location: Thomasson Room

2:00 - 4:00 pm

Poster Session II and Exhibits

Coffee break provided

Location: Palm Court Ballroom

3:30 - 4:00 pm

Optional:

Grant Funding Agency Workshop

(Representatives from NIH, NSF, and more)

Location: Vinov Grand Ballroom

4:00 - 4:30 pm

Business Meeting (open to all attendees)

Location: Vinoy Grand Ballroom

4:45 - 5:30 pm

Karl Meyer Award Lecture

Location: Vinoy Grand Ballroom Chair: Naoyuki Taniguchi, RIKEN

Introduction: Thierry Hennet; University of Zurich

2013 recipient: Markus Aebi; Swiss Federal

Institute of Technology

6:30 - 7:00 pm

Pre-Banquet Social Gathering

Location: Vinoy Grand Ballroom Foyer

7:00 - 11:00 pm

Banquet & Entertainment (Music for a Cause)

Location: Vinoy Grand Ballroom

*There is a nominal fee for this event and tickets must be purchased prior to Nov 18th at 2:00 pm.

Wednesday, November 20th

7:30 am - 4:00 pm

Registration Desk

Location: Vinoy Foyer

Speaker Ready Room

Location: **Taylor Room**

7:30 - 8:30 am

Continental Breakfast

Sponsored by: Galen Laboratory Supplies & Iduron

Location: Palm Court Ballroom

8:30 - 10:00 am

Session VII: IGO Guest Session: Cancer Glycobiology

Location: Vinoy Grand Ballroom

Chair: Jianing Zhang, Dalian Univ. of Technology

Abstract Oral Presentation

- #43 **8:30:** Roles of heparan sulfate in normal and cancer stem cells of intestine; **Minoru Fukuda**; Sanford-Burnham Medical Research Institute
- #44 **8:50:** Intratumoral hypoxia induces sialyl-Tn antigen expression and facilitates tumor metastasis: **Kazuaki Ohtsubo**: *Kumamoto Univ.*
- #45 **9:10:** Harnessing novel biomarkers of human embryonic stem cells for cancer diagnosis and therapy; **John Yu**; *Chang Gung Memorial Hospital at Linkou, Taoyuan*
- #46 9:30: Heparan sulfate is required for prostate cancer initiation and progression; Lianchun Wang¹, Xuanyang Li¹, Alison Nairn¹, Tamas Nagy², Fen Wang³, Yu Yamaguchi⁴, Kelley Moremen¹; ¹Complex Carbohydrate Research Center and University of Georgia; ²University of Georgia; ³Texas A&M Health Science Center; ⁴Sanford-Burnham Institute for Medical Research

#47 **9:45:** O-GlcNAc modification of ribosomal RACK1 enhances hypoxia-induced epithelial-mesenchymal transition in hepatocellular carcinoma; **Yuanyuan Ruan**, Jianxin Gu; *Fudan University*

10:00 - 10:30 am

Coffee Break

Location: Palm Court Ballroom

10:30 am - 12:30 pm

Session VIII: Vascular Glycobiology

Location: Vinoy Grand Ballroom

Chair: Jeff Esko, Univ. of California, San Diego

Abstract	Oral Presentation
#48	10:30: Syndecan-coupled receptor kinase signaling in angiogenesis; Alan Rapraeger, University of Wisconsin- Madison
#49	10:55: Glycosylation in the metabolic origins of common grievous disease; Jamey Marth , Won Ho Yang, Peter Aziz, Javier Ochoa-

Reparaz; Univ. of California, Santa Barbara

#50 11:20: Galectin-3 disruption impaired melanoma associated angiogenesis and reduced VEGF secretion from macrophages stimulated by TGFß1; Roger Chammas^{1,2}, Camila Machado¹, Luciana Sousa Andrade², Verônica Teixeira¹, Fabrício Costa³, Camila Melo¹, Sofia dos Santos¹, Suely Nonogaki⁴, Fu-Tong Liu⁵, Emerson Bernardes², Anamaria Camargo⁶; ¹Faculdade de Medicina da Universidade de São Paulo; ²Instituto do Câncer do Estado de São Paulo; ³Northwestern University's Feinberg School of Medicine; 4Instituto Adolfo Lutz, São Paulo; ⁵Academia Sinica; ⁶Ludwig Institute for Cancer Research, São Paulo Branch *selected talk-poster #166

- #51 **11:25:** The role of glycansynthesis and degradation in platelet birth and death; **Karin Hoffmeister**; *Brigham and Women's Hospital/Harvard Medical School*
- #52 **11:50:** Heparosan polysaccharide for drug delivery: a biosuperior alternative to PEGylation; **Paul DeAngelis**; *University of Oklahoma Health Sciences Center*
- #53 **12:15:** Ovarian tumor cell survival mechanisms regulated by ST6Gal-I sialyltransferase; **Susan L. Bellis**, Matthew Schultz, Charles N. Landen; *University of Alabama at Birmingham**selected talk-poster #167
- #54 **12:20:** A novel neu1 sialidase and matrix metalloproteinase-9 crosstalk regulates epidermal growth factor receptor and its targeted translation in pancreatic cancer;

Myron Szewczuk, Alanna M. Gilmour, Samar Abdulkhalek, Timothy S.W. Cheng, Farah Alghamdi, Preethi Jayanth, Leah K. O'Shea, Olivia Geen, Luis A. Arvizu; *Queen's Univ.**selected talk-poster #168

#55 **12:25:** Mucin-type O-glycoprotein podoplanin is essential for maintaining high endothelial venule integrity by interacting with platelet CLEC-2; **Lijun Xia**^{1,2}, Jianxin Fu^{1,2}, Brett H. Herzog^{1,2}; ¹Oklahoma Medical Research Foundation; ²University of Oklahoma Health Sciences Center *selected talk-poster #180

12:30 - 2:00 pm

Lunch on Your Own

2:00 - 4:00 pm

Poster Session III and Exhibits

Coffee break provided

Location: Palm Court Ballroom

4:00 - 5:40 pm

Session IX: Human Disease

Location: Vinoy Grand Ballroom

Chair: Linda Baum, UCLA

Abstract Oral Presentation

#56 **4:00:** Insight into UDP-GlcNAc: Iysosomal enzyme N-acetylglucosamine-1-phosphotransferase function/localization via analysis of mutations in Mucolipidosis II/III; **Stuart Kornfeld**; Washington University School of Medicine

#57 **4:25:** The Big Bang: an expanding universe of human glycosylation disorders; **Hudson Freeze**; *Sanford-Burnham Medical Research Institute*

#58 **4:50:** The colon mucus system and the interaction of the MUC2 mucin O-glycans with the microbiota in relation to evolution and colitis; **Gunnar Hansson**; *University of Gothenberg*

#59 **5:15:** Inhibitory and stimulatory glycans that alter Dendritic cell induced immune responses; **Yvette Van Kooyk**; *VU University Medical Center, Amsterdam*

5:40 - 5:45 pm

Closing Remarks

Location: Vinoy Grand Ballroom

Christopher M. West, President, Society for Glycobiology

