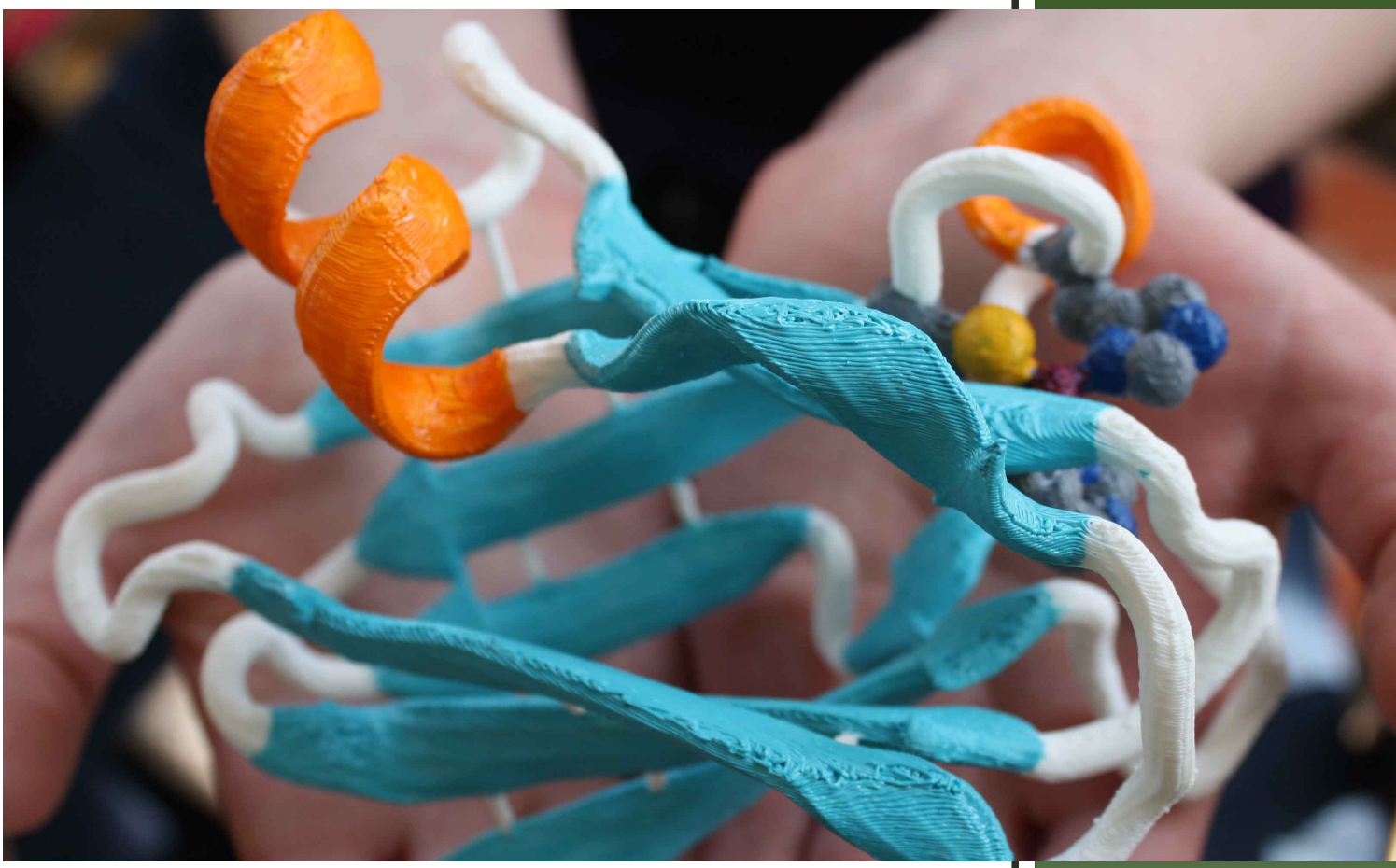
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Glycobiology World Congress

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316th OMICS International Conference



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Day 1 August 10, 2015

09:00-9:30 Registrations

Independence C

09:30-10:00 **Opening Ceremony**

Keynote Forum

10:00-10:05 **Introduction**

10:05-10:30 **Joseph J Barchi Jr**
National Cancer Institute, USA

10:30-10:55 **Michael P Jennings**
Griffith University, Australia

Networking & Refreshment Break 10:55-11:10 @ Foyer

Track 1: Glycans in Diseases and Therapeutics
Track 2: Glycomics and Bioinformatics
Track 3: Glyco Immunology

Session Chair: Joseph J Barchi Jr, National Cancer Institute, USA
Session Co-chair: Cecilia H. Marzabadi, Seton Hall University, USA

Session Introduction

11:10-11:30 **NaH Inhibits β-Amyloid Fibril Formation in Alzheimer's Disease Rats**
Maria O. Longas, Purdue University, USA

11:30-11:50 **Influence of glycans on biological activities of pituitary gonadotropins, follicle stimulating hormone and luteinizing hormone**
George R. Bousfield, Wichita State University, USA

11:50-12:10 **Novel carbohydrate-based ligands with immunostimulatory properties**
Cecilia H. Marzabadi, Seton Hall University, USA

12:10-12:30 **Therapeutic targeting neuraminidase-1 in multi-stage of tumorigenesis**
Myron R Szewczuk, Queen's University, Canada

12:30-12:50 **The clinical phenotype of PIGN deficiency and consequences of defective GPI biogenesis**
Francis Jeshira Reynoso, University of Pennsylvania, USA

Lunch Break 12:50-13:35 @ Benzamin

13:35-13:55 **Molecular characterization of the hemagglutinin receptor-binding specificity of avian influenza viruses: Predicting the jump across the species barrier**
Tony Velkov, Monash University, Australia

13:55-14:15 **Roles of polyvalency in the mechanism of glyco recognition: An important direction for the future glycosciences**
Albert M Wu, Chang-Gung University, Taiwan

14:15-14:35 **Effect of temperature and hyaluronate on photochemical changes in calf skin collagen solutions at physiological PH**
Julian M Menter, Morehouse School of Medicine, USA

14:35-14:55 **Glycomics profile analysis by MALDI TOF/MS in human CSF**
Xueli Li, University of Pennsylvania, USA

14:55-15:15 **MUC1 glycopeptide based anti-cancer vaccines**
Sourav Sarkar, Lehigh University, USA

Networking & Refreshment Break 15:15-15:30 @ Foyer

15:30-15:50 **New concepts in molecular and energy transport within carbon nanotubes and graphene: Optical sensors, resonant ion channels and thermopower waves**
Michael S. Strano, Massachusetts Institute of Technology, USA

15:50-16:10 **Cytokine gene polymorphism (IL-17A G197A, TNF-alpha G308A, IL-6 C174G) and human major histocompatibility complex (HLA DRB1) specificities control in bronchial asthma**
Ajiloseda Charles Adeniyi, Adyghe State University, Russia

16:10-16:30 **Targeting galectins as a new tumor microenvironment-based therapeutic strategy in cancer**
Yves St-Pierre, INRS-Institut Armand-Frappier, Canada

16:30-16:50 **Efficient chemoenzymatic synthesis of an n-glycan isomer library**
Peng G. Wang, Georgia State University, USA

Panel Discussion

Day 2 August 11, 2015

Independence C

Keynote Forum

10:00-10:05 **Introduction**

10:05-10:30 **Neil P. J. Price**
National Center for Agricultural Utilization Research, USA

10:30-10:55 **Myron R Szewczuk**
Queen's University, Canada

Networking & Refreshment Break 10:55-11:10 @ Foyer

Track 4: Glycobiology: Its Role In Human Health
Track 5: Discovery and Classification of Glycan Binding Proteins
Track 6: Glycan Catabolism and Systemic Physiology
Track 7: Evolution of Glycan Diversity

Symposium Chair: Neil P. J. Price, National Center for Agricultural Utilization Research, USA
Symposium Co-Chair: Myron R Szewczuk, Queen's University, Canada

Session Introduction

11:10-11:30 **Liamocins, sophorolipids and frost grape polysaccharides**
Neil P. J. Price, National Center for Agricultural Utilization Research, USA

11:30-11:50 **Disregulation of Golgi localization of glycosyltransferases alters mucin O-glycosylation and survival or metastatic properties of cancer cells**
Pi-Wan Cheng, University of Nebraska Medical Center, USA

11:50-12:10 **N-linked glycan characterization and profiling: Combining the power of a novel labeling reagent and a streamlined analytical platform for confident glycan assignments**
Ying Qing Yu, Waters Corporation, USA

12:10-12:30 **New tools to study and perturb the glycocalyx**
Thomas J Boltje, Radboud University Nijmegen, Netherlands

12:30-12:50 **Role of G protein-coupled receptors in insulin receptor glycosylation and activation**
Fiona Haxho, Queen's University, Canada

Lunch Break 12:50-13:35 @ Benzamin

13:35-13:55 **Expression of OGT correlates with migration and proliferation of colon cells lines**
Agata Steenackers, Lille 1 University, France

13:55-14:15 **Regulation of hepatic fatty acid synthase properties by O-glcnacylation *in vivo* and *ex vivo***
Steffi Baldini, Lille 1 University, France

14:15-14:35 **Glycosphingolipid-mediated interaction of shiga toxin with the human endothelium: Status quo of receptor research**
Ivan U. Kouzel, University of Münster, Germany

14:35-14:55 **Cellular roles of ganglioside GM3 biosynthesis in human cancer cells**
Cheorl-Ho Kim, Sung Kyun Kwan University, Korea

14:55-15:15 **A rational approach to identification of wild type trans-sialidases for the production of human milk oligosaccharides**
Rune Thorbjorn Nordvang, Technical University of Denmark, Denmark

Networking & Refreshment Break 15:15-15:30 @ Foyer

15:30-15:50 **Sialobiology of T CD4+ cells**
Ivan Martinez Duncker, Cell Dynamics Research Center, Mexico

15:50-16:00 **Panel Discussion**

16:00-17:00 **Poster Presentations**

Day 3 August 12, 2015

Independence C

Keynote Forum

10:00-10:05 **Introduction**

10:05-10:30 **Konrad Sandhoff**
LIMES Institut, Germany

Track 8: Synthesis and Biological Role of Glycans

Session Chair: Konrad Sandhoff, LIMES Institut, Germany
Session Co-chair: Barbara Klajnert Maculewicz, University of Lodz, Poland

Session Introduction

10:30-10:50 **Recent advances for the mechanisms involved in glycan biosynthesis**
John F. Robyt, Iowa State University, USA

10:50-11:10 **Lysosomal & extracellular GlcCer degradation: Protein & lipid modifiers**
Konrad Sandhoff, LIMES Institut, Germany

Networking & Refreshment Break 11:10-11:25 @ Foyer

11:25-11:45 **Cytoprotective properties of plant-produced a sialo erythropoietin (asialo-rhuEPO)**
Jiahua Jay Xie, North Carolina Central University, USA

11:45-12:05 **EDesign, synthesis and characterization of glycolipids and glycoclusters**
Guijun Wang, Old Dominion University, USA

12:05-12:25 **O-glycosylation and protein evolution: The case of the LHβ to CGβ development**
David Ben-Menahem, Ben-Gurion University of the Negev, Israel

12:25-12:45 **Reconstruction of a transmembrane protein tetraspanin (CD9) into lipid bilayer by interaction of ganglioside GM3 and tetraspanin**
Shigeomi Horito, Tokyo University of Science, Japan

Lunch Break 12:45-13:30 @ Benzamin

13:30-13:50 **Sugar-modified PPI dendrimers as carriers of anti-leukemia drugs**
Barbara Klajnert Maculewicz, University of Lodz, Poland

13:50-14:10 **Glycosphingolipids enhance transfection efficiency in GM95 cells**
Jan Willem Kok, University of Groningen, Netherlands

14:10-14:30 **Glycosylation regulates CD38 assembly on the cell surface**
Miki Hara-Yokoyama, Tokyo Medical and Dental University, Japan

14:30-14:50 **Sialylation of outer membrane porin protein D impedes β-lactam antibiotic entrance in *Pseudomonas aeruginosa***
Chitra Mandal, CSIR-Indian Institute of Chemical Biology, India

14:50-15:10 **Expression of recombinant human mast cell chymase with asn-linked glycans in glycoengineered pichia pastoris**
Eliot T. Smith, East Tennessee State University, USA

Networking & Refreshment Break 15:10-15:25 @ Foyer

Award Ceremony