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Tentative Program

3rd Glycobiology World Congress

June 26-28, 2017 London, UK

Theme: "Glycobiology: Simple Construction of Sweet Glycoprobes"



For Available Speaker Slots

glycobiology@conferenceseries.net

19+ Interactive Sessions

15+ Keynote Lectures

75+ Plenary Lectures

5+ Workshops

Conference Secretariat

2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA

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Email: glycobiology@conferenceseries.net ; glycobiology@biochemistryconferences.com

http://glycobiology.conferenceseries.com/

3rd Glycobiology World Congress

June 26-28, 2017 London, UK

Tentative Program

Featured Speakers
Title: The Interaction between dermal Type I collagen and hyaluran (HA) in phosphate buffered solution, pH = 7.4.
Julian M Menter, Morehouse School of Medicine, USA
Title: Specific sialoglycan structures on the cell surface correlate with the ability of cancer cells to form avascular multicellular 3D tumor spheroids and *in vivo* xenograft tumors
Myron R Szewczuk, Queen's University, Canada
4 keynote slots available
Title: Molecular lipid raft composition of primary human brain and kidney endothelial cells emphasizing Shiga toxin glycosphingolipid receptors
Nadine Legros, University of Münster, Germany
Title: Applications of Nanosensors to Glycoprofiling
Michael S Strano, Massachusetts Institute of Technology, USA
Title: Exploiting polyphenols for Alzheimer's disease prevention: From nature to the lab
Amelia P Rauter, Universidade de Lisboa, Portugal
Title: Glycosylation effects the bioavailability of sapanins in herbal extracts
Joanne Blanchfield, The University of Queensland, Australia
Title: Synthesis and biological activity of CD1d dependent glycolipid-peptide vaccines
Gavin Painter, University of Otago, New Zealand
Targeting cancer cell metabolism using sugar-based molecules
Fdelis Ndombera, Wayne State University, USA
Study of physiological structure of PMM1 protein and biological mechanism of IMP substrate binding
Chuyue Xiao, Boston College, USA
Title: Steryl glycosides: The emerging bioactive glycolipids of olive oil
Raquel Gomez-Coca, Instituto de la Grasa, Spain
Title: Defects in GlcNAc-1-phosphotransferase cause bone loss, dental abnormalities and B cell functions
Thomas Braulke, University Medical Center Hamburg-Eppendorf, Germany
Workshop on some ground and excited state interactions among extracellular matrix, simple sugars and type I collagens in the dermis
Julian M Menter, Morehouse School of Medicine, USA

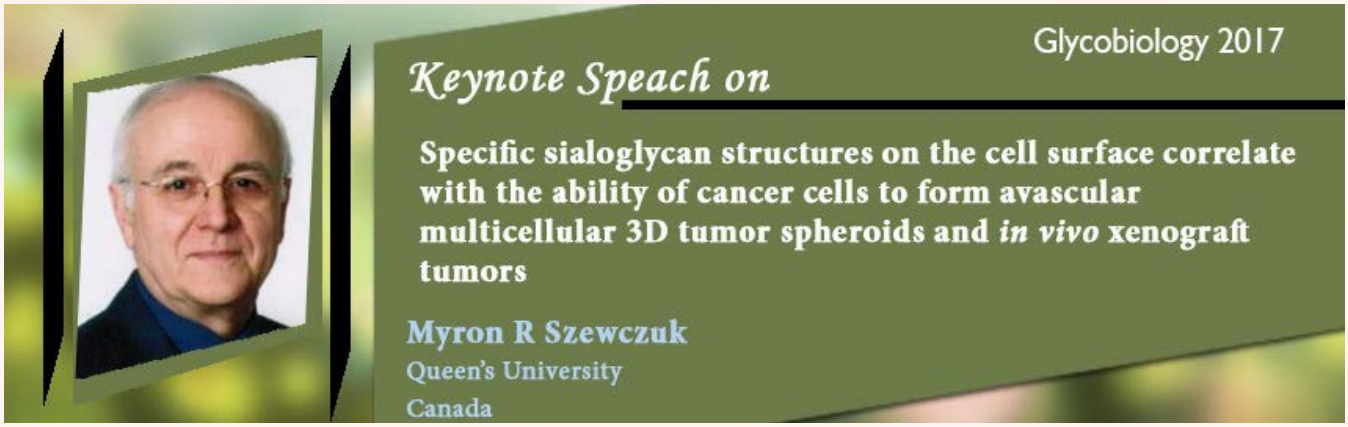
6 speaker slots available
Title: Analytical glycomics: Biopharmaceutical applications
Andras Guttman, University of Debrecen, Hungary
Title: Combination of high resolution HILIC-UPLC-FLD-ESI-QTOF MS/MS with automated data processing for structure determination and quantification of proteins with complex glycan patterns
Sven Bahrke, Glycotope GmbH, Germany
Title: N- and O-glycosylation are essential for *Ustilago maydis* virulence
Jose Ignacio Ibeas, Universidad Pablo de Olavide, Sevilla Spain
Title: Surface active glycosides: Synthesis and toxicity studies
Jorge Justino, Instituto Politécnico de Santarém, Portugal
Title: Exploring the synthesis and the biological potential of new structurally diversified N-glycosyl compounds as nucleoside analogs or mimetics of glycosyl phosphates and nucleotides
Nuno Manuel Xavier, Universidade de Lisboa, Portugal
Title: Investigating the surface glycosylation of CHO cells using a combination of novel lectins, fluorescence microscopy and flow cytometry
Jonathan Cawley, Dublin City University, Ireland
Title: Novel 3D graphene nanobiohybrid thin film in glucose sensing
Samira Bagheri, University of Malaya, Malaysia
Title: Integration of nanotechnology into glycomics: Construction and application of glycan and lectin biosensors
Jan Tkac, Slovak Academy of Sciences, Slovakia
Title: Elucidation of the functional roles of glycans in cancer development
Ying Xu, University of Georgia, USA
Title: Alcohol abuse and protein glycosylation with special emphasis on apolipoprotein
Raj Lakshman, The George Washington University, USA
7 speaker slots available
Title: Glycosylated ribosomal protein S3, secreted from various cancer cells, is a possible cancer biomarker
Joon Kim, Korea University, South Korea
Title: Bacterial ribosome selective aminoglycosides
Dev P Arya, Clemson University, USA
Title: Development of polymer nanocomposite scaffold for tissue engineering
Sabu Thomas, Mahatama Gandhi University, India
Title: What is Glycobiology
Agwuncha Chidebelu Obinna, Enugu Sate University of science and technology, Nigeria
Title: The glycosaminoglycan chain of decorin plays an important role in AMPK signaling
Zhao Ting Ting, China-Japan Friendship Hospital, P R China
Title: Methylglyoxal modified H2A forms highly immunogenic amorphous aggregates having role in cancer autoimmunity
Abdul Rouf Mir, Aligarh Muslim University, India

Conference Highlights

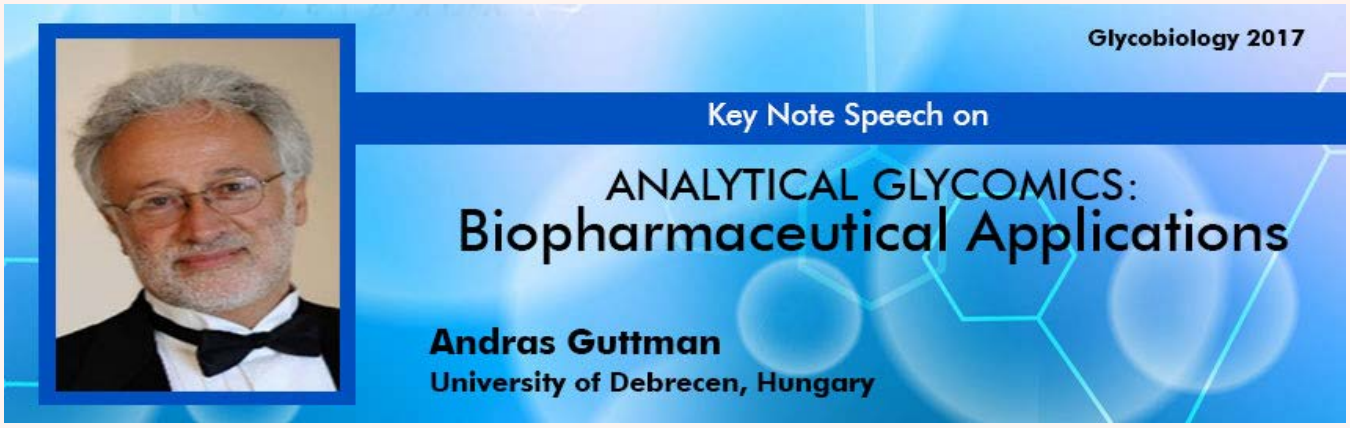


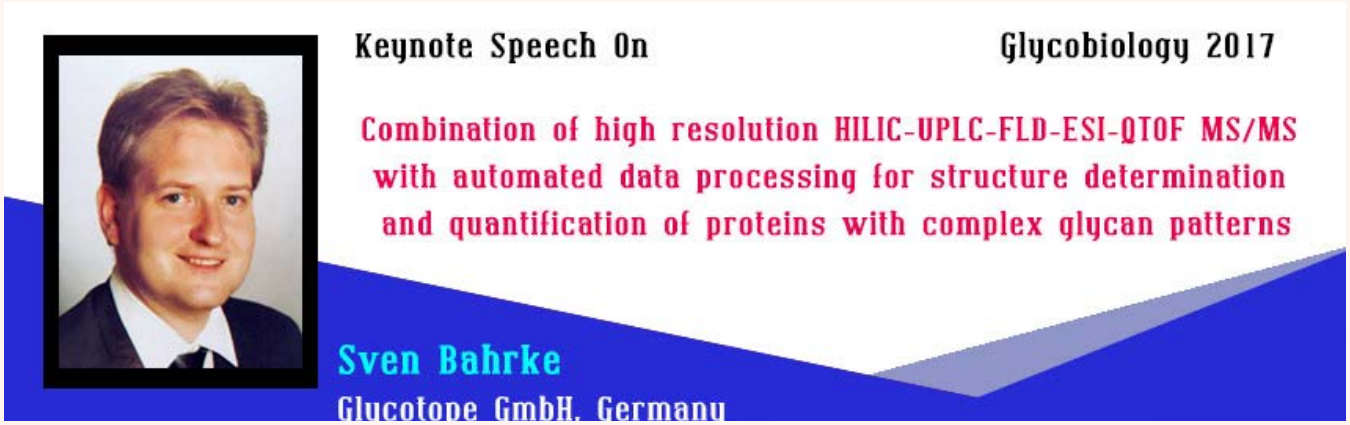


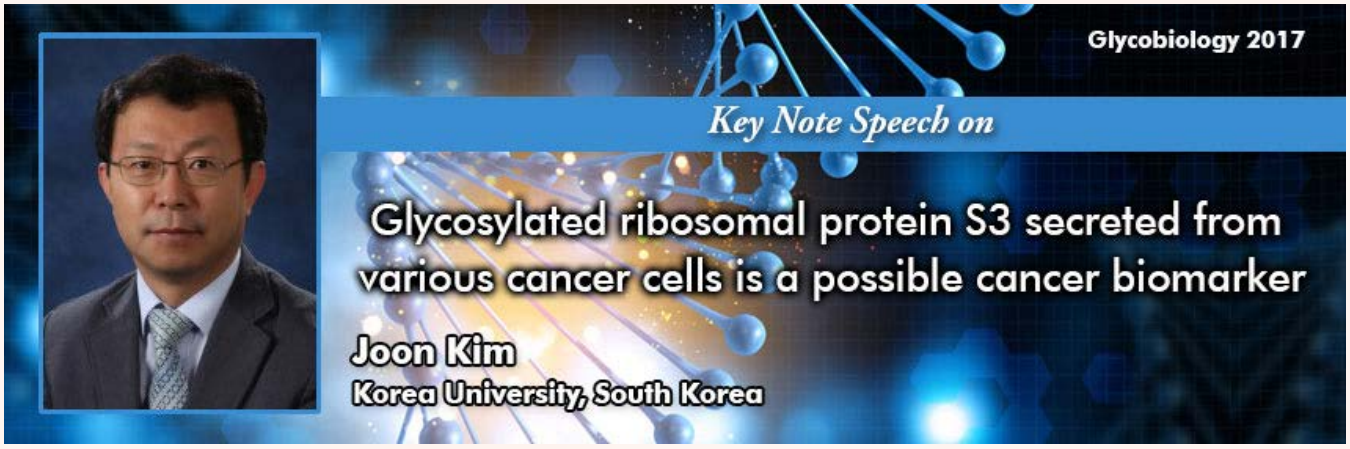




Conference Highlights

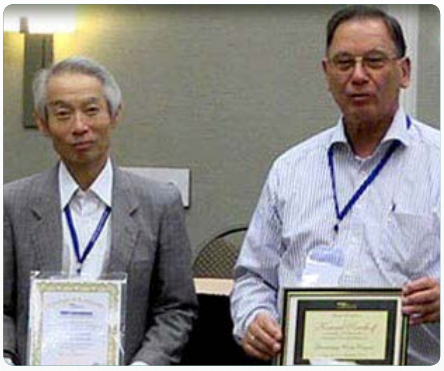








Glimpses of Glycobiology Conferences



















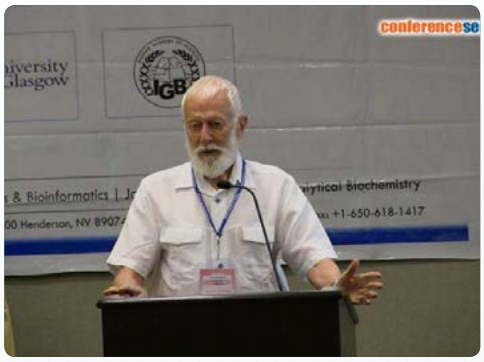






Glimpses of Glycobiology Conferences

























Major Scientific Sessions

- Glycobiology
- Genomics
- Mass Spectrometry
- Glycans in Drug Design
- Glyco Proteomics
- Glyco Bioinformatics
- Glyco Immunology
- Glyco Biomarkers
- Glycoprotein Technologies
- Glycomics and Metabolomics
- Glycobiology and Biotechnology
- Glycans in Diseases and Therapeutics
- Glycobiology and Structural Biology
- Glycans in Genetic Disorders
- Glycobiology in Personalized Medicine

Best Poster Award



- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement
- Apart from the judging time you may also be present at the poster to share your research with interested delegates



Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

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London, UK

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2360 Corporate Circle., Suite 400 Henderson,
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Best Tourist Destinations in London, UK



5 Off the Beaten Path Sights in London



5 Reasons to celebrate New Year's in London



10 Best Day Trips from London



10 Top Tourist Attractions in London



Piccadilly Circus and Trafalgar Square



Big Ben and Parliament



British Museum



Coca-Cola London Eye



Hampton Court Palace



Royal Museums Greenwich



National Gallery



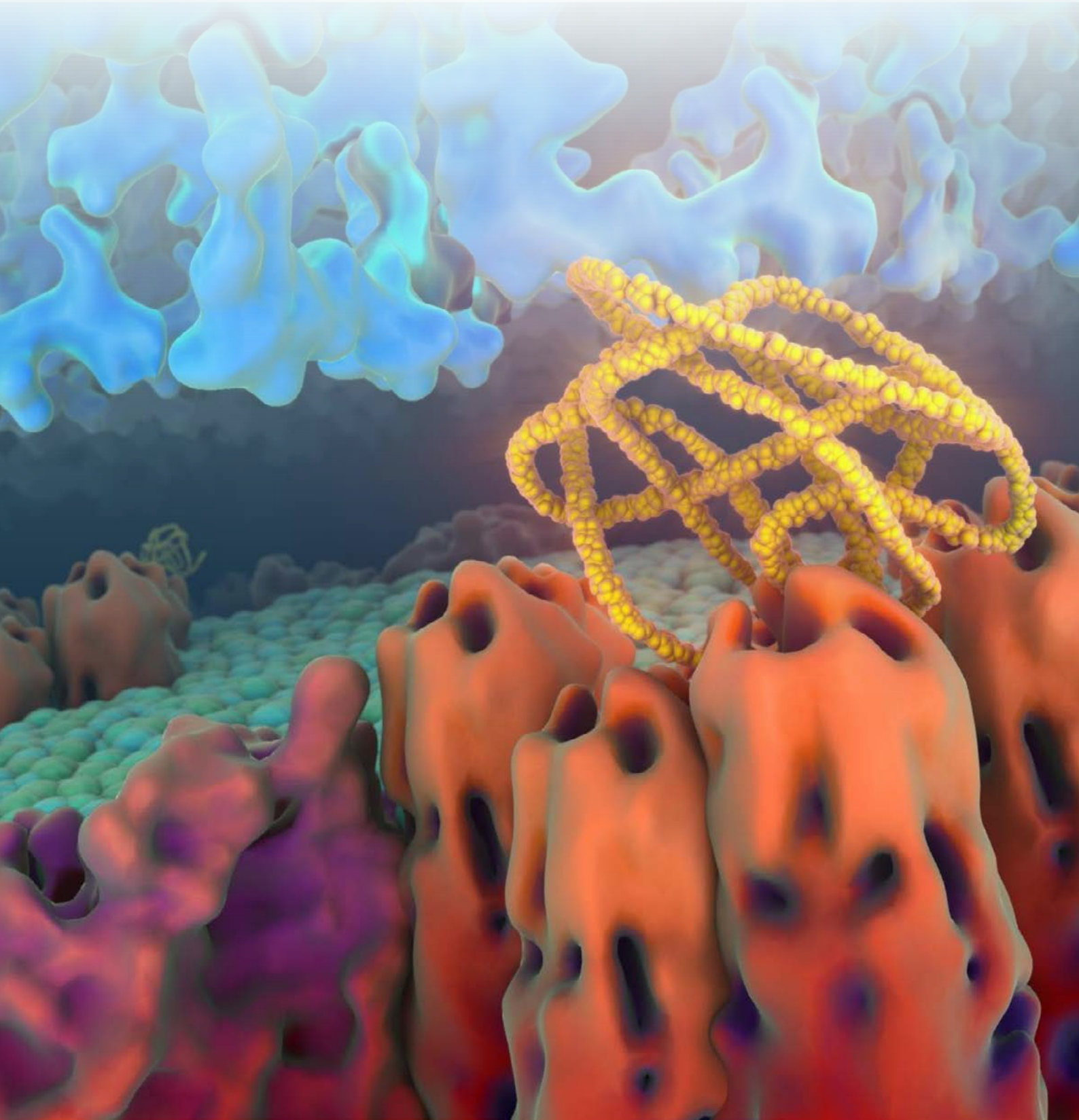
Natural History Museum

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2nd Glycobiology World Congress

August 29-31, 2016 Atlanta, USA

Scientific Program



Registrations

Chattahochee A

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Opening Ceremony

Keynote Forum

Introduction

Title: Effects of temperature and sodium hyaluronate on fluorescence of type I calf skin solutions at physiological pH
Julian M Menter, Morehouse School of Medicine, USA

Title: Oseltamivir-conjugated polymeric micelles engineered as active smart drug delivery platforms for effective tumor targeting
Myron R Szewczuk, Queen's University, Canada

Group Photo

Networking and Refreshment Break

Title: Metabolic engineering for oligo- and poly-saccharide synthesis: Challenges and opportunities
Rachel Chen, Georgia Institute of Technology, USA

Track 1: Glycans in Diseases and Therapeutics
Track 2: Glycobiology: Its Role In Human Health
Track 3: Glycobiology and Biotechnology
Track 4: Glycomics and Bioinformatics

Session Chair: Julian M Menter, Morehouse School of Medicine, USA
Session Co-Chair: Rachel Chen, Georgia Institute of Technology, USA

Session Introduction

Title: Role of sialylation in 3D multicellular tumor spheroid formation and in vivo tumors
Myron R Szewczuk, Queen's University, Canada

Title: SAGM-RRBP- Selecting appropriate glycoanalysis methods to reduce risk in biopharmaceutical production
Iva Turyan, Biogen, USA

Title: Label-free lectin microarrays using fluorescent carbon nanotube sensors: Towards rapid glycan characterization and synthetic lectin design
Michael S Strano, Massachusetts Institute of Technology, USA

Lunch Break

Title: Ribosomal protein S3 secreted from cancer cell lines is N-glycosylated
Joon Kim, Korea University, South Korea

Title: Synthesis of human milk oligosaccharides by trans-glycosidases
Joern Dalgaard Mikkelsen, The Technical University of Denmark, Denmark

Workshop

Title: How the epidermis and dermal collagen/extracellular/matrix interact with each other
Julian M Menter, Morehouse School of Medicine, USA

Networking & Refreshment Break

Title: Production of sialylated monoclonal antibody in CHO cells
Yves Durocher, National Research Council, Canada

Title: Cell-free synthesis of glycoproteins
Stefan Kubick, Fraunhofer Institute for Cell Therapy and Immunology (IZI), Germany

Title: Improvement of core-fucosylated glycoproteome coverage via alternating HCD and ETD fragmentation
Cheng Ma, Georgia State University, USA

Title: Identification of the binding roles of terminal and internal epitopes via enzymatic synthesized N-glycans with tandem epitopes

Wanyi Guan, Georgia State University, USA

Title: Glycosphingolipid synthesis is remodeled by statin-mediated reduction of Rab prenylation

Clifford A Lingwood, University of Toronto, Canada

Panel Discussion

Day 2 August 30, 2016

Chattahochee A

Keynote Forum

Title: Biochemical and functional analysis of modified heptoses from the capsule of *Campylobacter jejuni*

Carole Creuzenet, The University of Western Ontario, Canada

Title: Genetic glycoengineering for improvement of biopharmaceuticals

Steffen Goletz, Glycotope GmbH, Germany

Networking & Refreshment Break

Track 5: Classification of Glycan Binding Proteins
Track 6: Synthesis and Biological Role of Glycans
Track 7: Evolution of Glycan Diversity
Track 8: Glycan Catabolism and Systemic Physiology

Session Chair: Myron R Szewczuk, Queen's University, Canada

Session Co-Chair: Carole Creuzenet, The University of Western Ontario, Canada

Session Introduction

Title: Vitamin D3 deficiency in the aged

Maria O Longas, Purdue University, USA

Title: Glyco-markers in personalized cancer chemotherapy with platinum-drugs

Nahid Razi, AccuDava Inc., USA

Title: Designing de novo sequences of heparan sulfate that exhibit high selectivity for their target

Umesh R Desai, Virginia Commonwealth University, USA

Title: Quantification of O-linked and N-linked glycome in human fibroblast

Xueli Li, University of Pennsylvania, USA

Lunch Break

Title: Effect of temperature on photochemical and thermal changes in calf-skin collagen solutions at physiological pH

Julian M Menter, Morehouse School of Medicine, USA

Title: Cellular O-glycome reporter/amplification to explore O-glycans of living cells

Tongzhong Ju, Emory University School of Medicine, USA

Title: Integration of nanotechnology into glycomics: Construction and application of glycan and lectin biosensors

Jan Tkac, Slovak Academy of Sciences, Slovakia

Title: The bradykinin luminal endothelial receptor (B2) flow and agonist sensitivities result from lectin-oligosaccharide interactions

Ricardo Espinosa-Tanguma, University of San Luis Potosí, Mexico

Title: Elucidation of the functional roles of glycans in cancer development

Ying Xu, University of Georgia, USA

Networking & Refreshment Break

Poster Presentations

Panel Discussion

Day 3 August 31, 2016

Chattahochee A

Keynote Forum

Title: Carbohydrate xenoantigens in pig to human xenotransplantation
Cheorl-Ho Kim, Sungkyunkwan University, Korea

Track 9: Glyco Immunology
Track 10: Glycans in Drug Design

Session Chair: Cheorl-Ho Kim, Sungkyunkwan University, Korea
Session Co-Chair: Nada Al-Hasawi, Kuwait University, State of Kuwait

Session Introduction

Title: Bacterial ribosome selective aminoglycosides
Dev P Arya, Clemson University, USA
Title: Inhibition of polysialylation of neural cell adhesion molecule in the kelly neuroblastoma cell line by hexane extracts of the roots of Withania somnifera
Nada Al-Hasawi, Kuwait University, State of Kuwait

Networking & Refreshment Break

Title: From sequence to 3D-model: An efficient use of homology modeling, molecular dynamics and ligand docking techniques to predict protein-carbohydrate complexes
Carlos Modenutti, Universidad de Buenos Aires, Argentina
Title: The glycosaminoglycan chain of decorin plays an important role in AMPK signaling
Ting Ting Zhao, China-Japan Friendship Hospital, P.R. China
Title: Identification of housekeeping basal promoter 5'pcmah-2 of pig CMP-N-acetylneuraminic acid hydroxylase gene
Choong Hwan Kwak, Sungkyunkwan University, Korea
Title: Intestine specific regulation of pig CMP-N-acetylneuraminic acid hydroxylase gene (pcmah) is specifically controlled by Sp1 binding sites on its promoter: 5'pcmah-1 containing exon 1a and common ORF region (exon 2 to exon 14) is intestine specific
Sun-Hyung Ha, Sungkyunkwan University, Korea
Title: Disialyl ST8Sia I (GD3 synthase) accumulates GD2 ganglioside and suppress ICAM-1-mediated invasiveness in human breast cancer MDA-MB231 cells
Jun-Young Park, Sungkyunkwan University, Korea

Lunch Break

Panel Discussion



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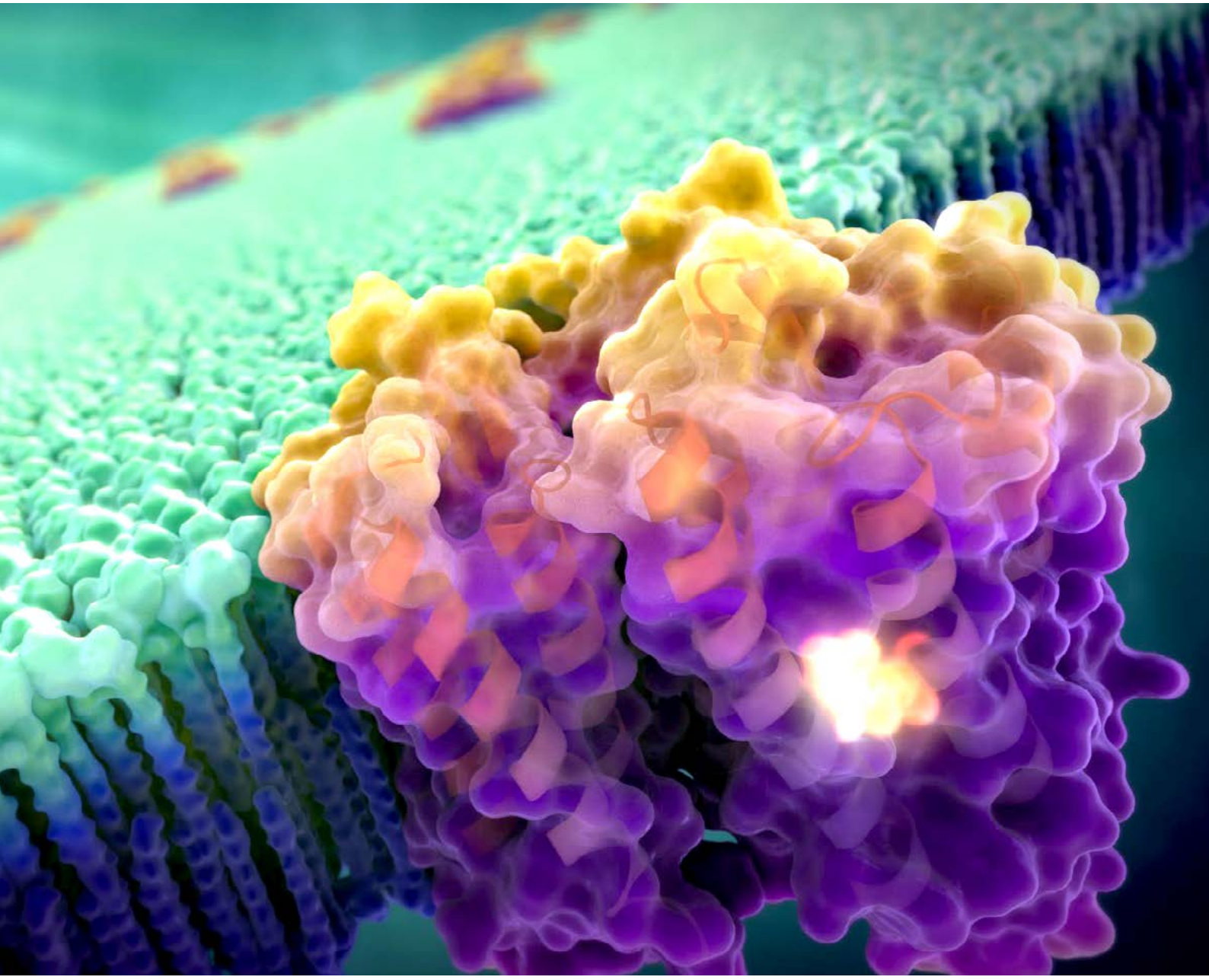
630th Conference

Scientific Program

6th International Conference on

STRUCTURAL BIOLOGY

August 22-23, 2016 New Orleans, USA



Hosting Organization: Conference Series LLC

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Scientific Program

Day 1 August 22, 2016

Registrations

Hall C

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Opening Ceremony

Keynote Forum

Introduction

Title: Comprehensive prediction of drug-protein interactions and side effects for the human proteome
Jeffrey Skolnick, Georgia Institute of Technology, USA

Symposium on "New technologies in structural studies by cryoEM"

Session Introduction

Session Chair: Qiu-Xing Jiang, University of Florida, USA
Session Co-Chair: Kenneth A Taylor, Florida State University, USA

Title: The structure of Zika virus
Michael G Rossmann, Purdue University, USA
Title: Random spherically constrained (RSC) single particle cryo-EM for structures of membrane proteins in a membrane environment
Liguo Wang, University of Washington, USA
Title: ChemiC: Chemically functionalized nanometer-thick carbon films for cryo-EM studies of biological complexes
Qiu-Xing Jiang, University of Florida, USA

Group Photo

Networking & Refreshments

Title: Deciphering intermolecular interactions in complex heterogeneous systems
Kenneth A Taylor, Florida State University, USA
Title: Breathing life into static images: Combining electron cryotomography and coarse-grained simulations to explore mechanisms of eukaryotic cell division machinery *in vivo*
Matthew T Swulius, California Institute of Technology, USA
Title: Advanced machine-learning algorithms for improving high-performance cryo-EM data analysis
Youdong Jack Mao, Harvard Medical School, USA

Lunch

Keynote Forum

Title: A personal history of structural virology
Michael G Rossmann, Purdue University, USA

Sessions: Structural Biology | 3 D Structure Prediction | Computational Approaches

Session Introduction

Session Chair: Fumio Hirata, Toyota Physical & Chemical Research Institute, Japan
Session Co-Chair: John H Miller, Victoria University of Wellington, New Zealand

Title: Tubulin structural interactions with small molecule microtubule-stabilizing agents
John H Miller, Victoria University of Wellington, New Zealand
Title: Molecular behavior of a higher-order complex of multiple transcription factors on enhancer site upon phosphorylation
Kazuhiro Ogata, Yokohama City University Graduate School of Medicine, Japan
Title: Structure, fluctuation, and function of biomolecules in solution explored by the 3D-RISM/RISM theory
Fumio Hirata, Toyota Physical & Chemical Research Institute, Japan
Title: Discovery of a GTP sensor using a structural reverse genetic approach
Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan
Title: Structural and synthetic biology of aminoacyl-tRNA synthesis and translation
Shigeyuki Yokoyama, RIKEN Structural Biology Laboratory, Japan

Networking & Refreshments

Sessions: Signalling Biology | Drug Designing | Sequencing

Session Introduction

Session Chair: Takeshi Kikuchi, Ritsumeikan University, Japan
Session Co-Chair: Elizabeth J Goldsmith, University of Texas Southwestern Medical Center at Dallas, USA

Title: Development of anti-HIV double variable domain antibodies that bind both gp120 and gp41 on the envelope protein
Seth Pincus, Children's Hospital and Louisiana State University School of Medicine, USA
Title: The excursion model for MAP kinase signaling in health and disease
Elizabeth J Goldsmith, University of Texas Southwestern Medical Center at Dallas, USA
Title: Sequence analysis on the information of folding nuclei in proteins with interesting 3D properties
Takeshi Kikuchi, Ritsumeikan University, Japan
Title: Ligand binding preferences of pathogenesis-related class 10 (pr-10) allergens
Barry K Hurlburt, United States Department of Agriculture, USA
Title: Genomes repetitive sequences in progressive evolution
Olga I Podgornaya, Far Eastern Federal University, Russia

Special Session on "Prediction of protein-protein interaction in the Twilight Zone"

Session Introduction

Session Chair: Thomas Scior, Benemérita Universidad Autónoma de Puebla, Mexico

Title: Prediction of protein-protein interaction in the twilight zone of low homology for the modulation of an ion channel: An analogy approach
Thomas Scior & Ángel Islas, Benemérita Universidad Autónoma de Puebla, Mexico

Panel Discussions

Day 2 August 23, 2016

Hall C

Keynote Forum

Title: The use of soft X-ray diffraction for native-SAD and for chromatic exploration of uncharted aspects of metals in macromolecules: A new pilot program at the APS
Bi-Cheng Wang, University of Georgia and Advanced Photon Source, USA
Title: How do voltage sensors in trans-membrane channels work?
Robert Stroud, University of California, San Francisco, USA

Special Session on "Modularity and metastability: Structural aspects of nanomedicine"

Session Chair: R Holland Cheng, University of California, Davis, USA
Session Co-Chair: Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan

Title: Modularity and metastability: Structural aspects of nanomedicine
R Holland Cheng, University of California, Davis, USA
Title: Structure and function of the C-terminal ID region of onco-protein CagA
Toshiya Senda, High Energy Accelerator Research Organization (KEK), Japan

Networking & Refreshments

Title: Talin - Insights into mechanosignalling and integrin activation
Vesa P Hytonen, University of Tampere, Finland
Title: Individual-Particle Electron Tomography (IPET): An approach to study flexible protein structure and dynamics
Gang Ren, Lawrence Berkeley National Laboratory, USA
Title: Integrated methods enable re-engineering of transcription factors allowing cell fate modification
Prasanna R Kolatkar, Hamad bin Khalifa University, Qatar
Title: A comprehensive strategy to obtain high quality crystals
Miki Senda, High Energy Accelerator Research Organization (KEK), Japan
Title: Symmetry ambiguity and its implications to the molecular functions of the MAVS prion-like filaments
Qiu-Xing Jiang, University of Florida, USA

Lunch

Title: Crystal structure of a human Fab in complex with a dominant antigen from Neisseria meningitidis
Jacinto López-Sagaseta, GlaxoSmithKline Vaccines S.r.l., Italy
Title: The atomic structures of Dragon grouper nervous necrosis virus from cryo-em in comparing with x-ray diffractions
Chan-Shing Lin, National Sun Yat-sen University, Taiwan

Sessions: Molecular Modelling | Complexity Arenas in Structural Biology | Structural Biology in Cancer

Session Introduction

Session Chair: Irena Roterman-Konieczna, Jagiellonian University, Poland
Session Co-Chair: Jyh-Yeuan Lee, University of Texas Southwestern Medical Center at Dallas, USA

Title: Impact of the water environment on protien folding
Irena Roterman-Konieczna, Jagiellonian University, Poland
Title: ABCG5/ABCG8: Structural role in ABC transporter-mediated sterol transport
Jyh-Yeuan Lee, University of Texas Southwestern Medical Center at Dallas, USA
Title: The molecular effects of processing on the peanut allergens
Soheila J Maleki, United States Department of Agriculture, USA

Title: Structural analysis of PTPN3-p38γ interactions by chemical cross-linking coupled with mass spectrometry
Tzu-Ching Meng, Academia Sinica, Taiwan

Networking & Refreshments

Title: Predicting the binding free energy of the inclusion process of Cyclodextrin derivatives and small molecules by means of MM/3D-RISM method
Masatake Sugita, Ritsumeikan University, Japan
Title: Is molecular docking the holy grail of computational modelling?
Ihosvany Camps, Federal University of Alfenas, Brazil
Title: Proton tunneling accelerates ATP hydrolysis in Eg5 kinesin
Sunyoung Kim, Louisiana State University School of Medicine & Health Sciences Center, USA
Title: Molecular docking of potent inhibitors of oncoproteins using Swiss dock and visualization by UCSF chimera
Mohammed Ahmed Mohammed Mansour, Tanta University, Egypt

Poster Presentations

P01 **Title: In silico development of new acetylcholinesterase inhibitors**
Ihosvany Camps, Federal University of Alfenas, Brazil

P02 **Title: Cation roles in the structure of a fish nodavirus observed in Electron Cryo-Microscopy and X-Ray diffraction**
Chan-Shing Lin, National Sun Yat-sen University, Taiwan

P03 **Title: Estimation of binding free energy based on the MM/3D-RISM method for the Pim1-ligand system**
Takeshi Haesegawa, Ritsumeikan University, Japan

P04 **Title: Motor domain β-sheet motifs contribute to diversification of kinesin-microtubule interactions**
Jessica Richard, Louisiana State University School of Medicine & Health Sciences Center, USA

P05 **Title: SATB2 suppresses invadopodia formation in colorectal cancer cells via palladin inhibition**
Mohammed Ahmed Mohammed Mansour, Tanta University faculty of Science, Egypt

P06 **Title: Folding region predictions by amino acid analysis of lysozyme superfamily proteins**
Takuto Nakashima, Ritsumeikan University, Japan

P07 **Title: Small spatial motifs within a surface-exposed loop in kinesin motor proteins codes for mechanochemical coupling**
Rebecca Buckley, Louisiana State University School of Medicine & Health Sciences Center, USA

Panel Discussion and Certificate Distribution

Bookmark Your Dates

9th International Conference on

Structural Biology

September 18-19, 2017 Zurich, Switzerland

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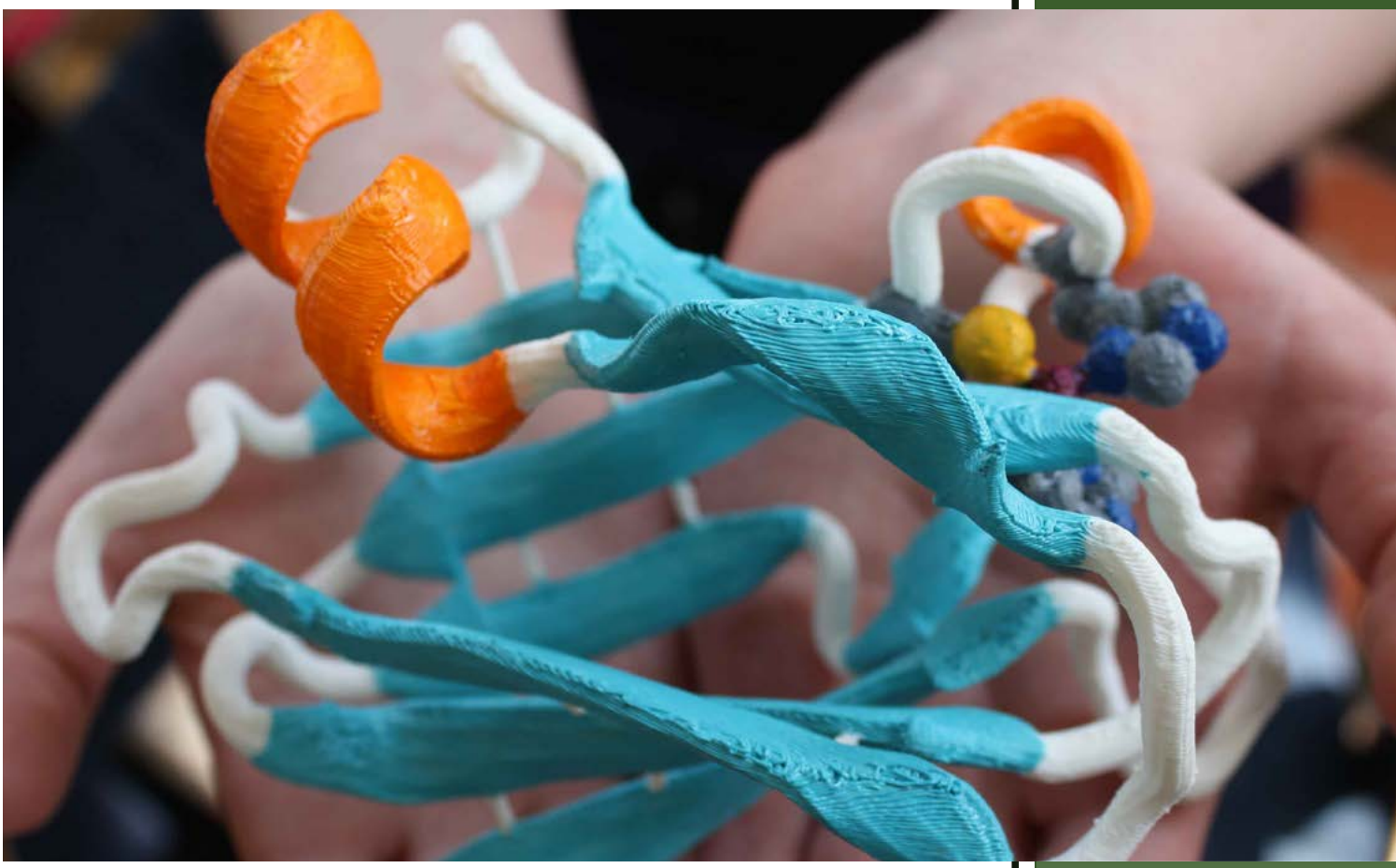
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316th OMICS International Conference

Scientific Program

Glycobiology World Congress

Philadelphia, USA August 10-12, 2015



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Proposals are invited for organizing Symposia/Workshops at OMICS International Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

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Email: *glycobiology@omicsgroup.com, glycobiology@conferenceseries.com*

Registrations

Independence C

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Opening Ceremony

Keynote Forum

Introduction

Joseph J Barchi Jr

National Cancer Institute, USA

Michael P Jennings

Griffith University, Australia

Networking & Refreshment Break

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

Title: NaH Inhibits β-Amyloid Fibril Formation in Alzheimer's Disease Rats
Maria O. Longas, Purdue University, USA
Title: Influence of glycans on biological activities of pituitary gonadotropins, follicle stimulating hormone and luteinizing hormone
George R. Bousfield, Wichita State University, USA
Title: Novel carbohydrate-based ligands with immunostimulatory properties
Cecilia H. Marzabadi, Seton Hall University, USA
Title: Therapeutic targeting neuraminidase-1 in multi-stage of tumorigenesis
Myron R Szewczuk, Queen's University, Canada
Title: The clinical phenotype of PIGN deficiency and consequences of defective GPI biogenesis
Francis Jeshira Reynoso, University of Pennsylvania, USA

Lunch Break

Title: Molecular characterization of the hemagglutinin receptor-binding specificity of avian influenza viruses: Predicting the jump across the species barrier
Tony Velkov, Monash University, Australia
Title: Roles of polyvalency in the mechanism of glyco recognition: An important direction for the future glycosciences
Albert M Wu, Chang-Gung University, Taiwan
Title: Effect of temperature and hyaluronate on photochemical changes in calf skin collagen solutions at physiological PH
Julian M Menter, Morehouse School of Medicine, USA
Title: Glycomics profile analysis by MALDI TOF/MS in human CSF
Xueli Li, University of Pennsylvania, USA
Title: MUC1 glycopeptide based anti-cancer vaccines
Sourav Sarkar, Lehigh University, USA

Networking & Refreshment Break

Title: 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
Title: 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

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

Title: 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

Introduction

Neil P. J. Price

National Center for Agricultural Utilization Research, USA

Myron R Szewczuk

Queen's University, Canada

Networking & Refreshment Break

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

Title: Liamocins, sophorolipids and frost grape polysaccharides
Neil P. J. Price, National Center for Agricultural Utilization Research, USA
Title: 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
Title: 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
Title: New tools to study and perturb the glycocalyx
Thomas J Boltje, Radboud University Nijmegen, Netherlands
Title: Role of G protein-coupled receptors in insulin receptor glycosylation and activation
Fiona Haxho, Queen's University, Canada

Lunch Break

Title: Expression of OGT correlates with migration and proliferation of colon cells lines
Agata Steenackers, Lille 1 University, France
Title: Regulation of hepatic fatty acid synthase properties by O-glcnacylation *in vivo* and *ex vivo*
Steffi Baldini, Lille 1 University, France
Title: Glycosphingolipid-mediated interaction of shiga toxin with the human endothelium: Status quo of receptor research
Ivan U. Kouzel, University of Münster, Germany
Title: Cellular roles of ganglioside GM3 biosynthesis in human cancer cells
Cheorl-Ho Kim, Sung Kyun Kwan University, Korea
Title: 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

Title: Sialobiology of T CD4+ cells
Ivan Martinez Duncker, Cell Dynamics Research Center, Mexico

Panel Discussion

Poster Presentations

Independence C

Keynote Forum

Introduction

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

Title: Recent advances for the mechanisms involved in glycan biosynthesis
John F. Robyt, Iowa State University, USA
Title: Lysosomal & extracellular GlcCer degradation: Protein & lipid modifiers
Konrad Sandhoff, LIMES Institut, Germany

Networking & Refreshment Break

Title: Cytoprotective properties of plant-produced a sialo erythropoietin (asialo-rhuEPO)
Jiahua Jay Xie, North Carolina Central University, USA
Title: EDesign, synthesis and characterization of glycolipids and glycoclusters
Guijun Wang, Old Dominion University, USA
Title: O-glycosylation and protein evolution: The case of the LHβ to CGβ development
David Ben-Menahem, Ben-Gurion University of the Negev, Israel
Title: 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

Title: Sugar-modified PPI dendrimers as carriers of anti-leukemia drugs
Barbara Klajnert Maculewicz, University of Lodz, Poland
Title: Glycosphingolipids enhance transfection efficiency in GM95 cells
Jan Willem Kok, University of Groningen, Netherlands
Title: Glycosylation regulates CD38 assembly on the cell surface
Miki Hara-Yokoyama, Tokyo Medical and Dental University, Japan
Title: Sialylation of outer membrane porin protein D impedes β-lactam antibiotic entrance in *Pseudomonas aeruginosa*
Chitra Mandal, CSIR-Indian Institute of Chemical Biology, India
Title: 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

Award Ceremony

Scientific Program

Day 1 **July 27, 2015**

Registrations

Hall 1

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Opening Ceremony

Keynote Forum

Introduction

Glen M Borchert
University of South Alabama, USA

William McCombie
Cold Spring Harbor Laboratory, USA

Networking & Refreshment Break

Track 2: RNA Editing and RNA Interference:Interplay,
Track 3: Next Generation Sequencing (NGS) Technologies
Track 4: Disease Interrogation and Applications of RNA-Seq

Session Introduction

Session Chair: Momiao Xiong, University of Texas Health Science Centre, USA
Session Co-Chair: Yongming Sang, Kansas State University, USA

Title: Integrative image and RNA-Seq data analysis
Momiao Xiong, University of Texas Health Science Centre, USA

Title: Reduction of systematic bias in transcriptome data from human peripheral blood mononuclear cells for transportation and biobanking
Atsushi Shimizu, Iwate Medical University, Japan

Title: Genome-wide transcriptomes integrate animal intra- and inter-organism processes and evoke the ecoimmunological concept in animal health
Yongming Sang, Kansas State University, USA

Title: Identification by deep sequencing and profiling of conserved and novel hickory microRNAs involved in the graft process
Bingsong Zheng, Zhejiang A & F University, P.R. China

Title: RNA Sequencing in degraded tumor RNA samples: Two natural enemies finally reconciled
Michael Bonin, IMGM Laboratories GmbH, Germany

Title: RNA Editing alters MicroRNA targeting in human breast cancer
Glen M Borchert, University of South Alabama, USA

Title: Genome-scale mapping promoter variation through exome sequencing
Sang Ming WANG, University of Nebraska Medical Center, USA

Group Photo

Lunch Break

Workshop on "RNA editing and Next Generation Sequencing"
by Glen Borchert, University of South Albama, USA

Track 1: Transcriptome analysis and Gene Expression-An Overview
Track 5: Exploring the complexity of the Transcriptome
Track 6: Refining expression analysis

Session Introduction

Session Chair: Andrey S Krasilnikov, Penn State University, USA
Session Co-Chair: Yan Li, The Fourth Military Medical University, China

Title: Transcripts to cleave transcripts: Structure and function of RNA-based Ribonucleases P and MRP
Andrey S. Krasilnikov, Penn State University, USA
Title: The mitochondrial transcription factor and the interaction on Cell Aging
Marcelo S. Ferro, University Sao Judas Tadeu, Brazil
Title: NDRG2, a new estrogen-targeted gene
Yan Li, The Fourth Military Medical University, China
Title: Expression analysis of candidate genes present in the QTL regions for both Iron and Zinc in the F7 RILs of Madhukar x Swarna
Sai Vishnu Priya, Centre for Cellular & Molecular Biology, India

Networking & Refreshment Break

Track 8: Functional Impact of Non-Coding RNA (ncRNA)
Track 9: Cancer Genomics: Integrative And Computational Approaches
Track 12: Transcriptional Regulation and Transcriptional Attenuation

Session Introduction

Session Chair: Harry Jarrett, University of Texas San Antonio, USA
Session Co-Chair: Ding-Gan Liu, Chinese Academy of Sciences, China
Title: T3 transcriptomics
Harry Jarrett, University of Texas, USA
Title: Independent 3'untranslated region RNA: A novel non-coding regulator RNA
Ding-Gan Liu, Chinese Academy of Sciences, China
Title: Transcription-based chronobiology of receptor tyrosine kinases: relevance to cancer progression
Yosef Yarden, Weizmann Institute of Science, Israel
Title: Parathyroid hormone regulates Nhe3 gene core promoter: EGR1 and Sp3 might regulate the RNA polymerase II pause?
Nancy Amaral Reboucas, University of Sao Paulo, Brazil

Panel Discussion

Day 2 July 28, 2015

Hall 1

Registrations

Track 7: Epigenetics
Track 11: Clinical Applications and Related Disorders

Session Introduction

Session Chair: Max H Garzon, The University of Memphis, USA
Session Co-Chair: Yingwei Mao, Pennsylvania State University, USA
Title: A critical role of an exon junction complex (EJC) factor in regulation of embryonic neurodevelopment and implications in neurodevelopmental disorders
Yingwei Mao, Pennsylvania State University, USA
Title: Transcription interference networks examined by Single Molecule Long Read Sequencing Technology
Zsolt Boldogkoi, University of Szeged, Hungary
Title: A comparative transcriptome provides candidate genes for determination the cause of males infertility
Krzysztof Wieczerzak, University of Rostock, Germany

Workshop on "Impact of variation in regulatory region on gene expression"
by San Ming Wang, University of Nebraska Medical Centre, USA

Networking & Refreshment Break

Track 14: Transcriptomics and Proteomics of Microorganisms

Session Introduction

Session Chair: Subha Bhassu, University of Malaya, Malaysia
Session Co-Chair: Ilana Kolodkin, Weizmann Institute of Science, Israel
Title: Quantitative analysis of the mitochondrial proteome and phosphoproteome in the yeast Saccharomyces cerevisiae
Claire Lemaire, National Center for Scientific Research, France
Title: Maintaining motile cells inside the biofilm through cell-to-cell signaling, transcription regulation and evolution
Ilana Kolodkin, Weizmann Institute of Science, Israel
Title: Transcriptomic and proteomic profiling of infectious hypodermal and hematopoietic necrosis virus (IHHNV) in giant freshwater prawns
Subha Bhassu, University of Malaya, Malaysia
Title: Transcriptome analysis of nematode-trapping fungi during infection of plant- parasitic nematodes
Dharmendra Kumar, Narendra Deva University of Agriculture & Technology, India
Title: Characteristics of Pseudorabies virus transcripts analyzed by PacBio and Illumina sequencing techniques
Dora Tombacz, University of Szeged, Hungary

Lunch Break

Page 23

Workshop on "On the way to disentangling the enigma of angiosperm egg activation"
by Zsolt Ponyal, Kaposvar University, Hungary

Track 10: Expression Profiling
Track 13: Genomics, Proteomics and Bioinformatics

Session Introduction

Session Chair: Sang Ming WANG, University of Nebraska Medical Center, USA
Session Co-Chair: Punit Kaur, Morehouse School of Medicine, USA

Title: Genomic Positioning Systems for DNA and the Tree of Life
Max H Garzon, The University of Memphis, USA

Title: The long noncoding RNA MALAT1 promotes tumour-driven angiogenesis by up-regulating pro-angiogenic gene expression
Tao Liu, University of New South Wales, Australia

Title: Studying the expression pattern of auxin-associated genes in Carya cathayensis (Hickory) during the grafting process
Bingsong Zheng, Zhejiang A & F University, P. R. China

Title: Aggressive phenotype of triple-negative breast cancer stem cells (TNBC-CSC)
Punit Kaur, Morehouse School of Medicine, USA

Title: Locating Disease-associated Single Amino Acid Polymorphisms on Proteins
Baris E. Suzek, Mugla Sitki Kocman University, Turkey

Title: SLUG and SOX9 cooperatively regulate tumor initiating niche factors in breast cancer
Babak Behnam, Iran University of Medical Sciences, Iran

Networking & Refreshment Break

Young Researchers Forum

Title: Pathway analysis for female osteoporosis
Yu Zhou, Tulane University, USA

Title: Characterization of 5-methylcytosine patterns in Pseudorabies virus
Peter Olah, University of Szeged, Hungary

Title: De novo transcriptome assembly and identification of cold and freeze responsive genes in sea buckthorn
Saurabh Chaudhary, Guru Gobind Singh Indraprastha University, India

Panel Discussion

POSTER COMPETITION

Day 3 July 29, 2015

Hall 1

Track 15: Transcriptomics and Proteomics of Plants
Track 16: Transcriptome technologies market
Track 17: New Horizons to the Transcriptome

Session Introduction

Session Chair: Patrick Xuechun Zhao, Samuel Roberts Noble Foundation, USA
Session Co-Chair: Zsolt Ponya, Kaposvar University, Hungary

Title: The LegumeIP (2015 release) - a web-based comparative genomics and gene expression atlas platform to study gene function and genome evolution in legumes
Patrick Xuechun Zhao, Samuel Roberts Noble Foundation, USA

Title: Comparative transcriptome analysis between mature pollen and stigma of Brassicaceae and Triticeae crop species
Vishwanath Sollapura, Agriculture and Agri-Food, Canada

Title: How gamete micromanipulation and cell engineering can contribute to establishing a time scale for performing transcriptomics studies in wheat (Triticum aestivum L.) during fertilisation and proembryo formation
Zsolt Pónya, Kaposvár University, Hungary

Networking & Refreshment Break

Title: Transcriptome and small RNA gene expression changes in synthetic allohexaploids of Brassica
Jianbo Wang, Wuhan University, China

Title: Molecular characterization of the unintended and unexpected effects of genetic engineering on the endogenous Solanum tuberosum genome
Lerato Bame Tsalaemang Matsaunyane, Agricultural Research Council-Vegetable and Ornamental Plant Institute, South Africa

Title: Differential regulation of antioxidative gene expressions in response to salt stress in rice
Ozge Celik, Istanbul Kultur University, Turkey

Title: Isolation and fuctional characterization of cold stress inducible promoter CAT01 from Tomato
Monika Bansal, Lovely Professsional University, India

Panel Discussion

Lunch Break

Closing Ceremony