10th Glycobiology World Congress

July 17-18, 2020
Vienna, Austria



DAY 1
Friday, 17th July

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On: Structural Biology | Proteomics and Genomics	**Talks On:** Glycan's
Glycoproteins	Glycan immunotherapies
Glycosylation	Glycan sensing
Therapeutic proteins	Glycosamino Glycans
Microbial Glycobiology	Glycan synthesis

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: Synthesis and Biological Role of Glycans | Evolution of Glycan Diversity	**Talks On:** Glycochemistry
Glycoconjugates	Stereochemistry
Carbohydrate Synthesis	Regiochemistry
Glyconutrients	Glycomimetics Chemistry
Homology modeling	Chemical Biology Probes
Ab-initio method	Ligand-based design
Threading	Structure-based design

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Glycobiology	Workshop

DAY 2
Saturday, 18th July

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50

MEETING HALL 01	MEETING HALL 02
Talks On: Recent Advances in Glycobiology	**Talks On:** Glycoinformatics
Tissue regeneration	3D structure determination
Cancer stem cells	Protein engineering
Somatic cell therapy	Protein folding
Bone marrow transplantation	Protein Modeling
Bone marrow transplantation	Homology modeling
Herbal medicine	Computational and theoretical Biophysics

12:50-13:35 LUNCH BREAK

13:35-15:55

MEETING HALL 01	MEETING HALL 02
Talks On:Genomics and Metabolomics	**Talks On: Glycochemistry**
Signal splitting: spin-spin coupling	Stereochemistry
Applications of mass spectrometry	Regiochemistry
Mass spectrometry for protein analysis	Glycomimetics Chemistry
Emerging separation technologies	
Signalling Networks	

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers in Glycochemistry	Workshop

Awards & Closing Ceremony

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Glimpses of Glycobiology Conferences

















Vienna Attractions



Scientific Program

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8th Glycobiology World Congress

July 13-14, 2020 | London, UK

UK: Conference Series LLC Ltd
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DAY-1

July 11, 2019

Meeting Hall: **London II**

Registrations

Opening Ceremony

KEYNOTE FORUM

Introduction

Title: Glycosides bearing cationic lipids for prevention of transmission of *Mycoplasma* bacterial diseases
Robert Engel, Queens College, USA

Title: Glycobiology smart drug delivery systems for the treatment of cancer
Myron R Szewczuk, Queen's University, Canada

Title: How UV – Induced dityosine formation in Type I dermal collagen is affected by the surrounding extracellular proteoglycan environment
Julian M Menter, Morehouse School of Medicine, USA

Networking & Refreshments @ Banquet Foyer

Title: How to structure the debate on modern biotechnology?
Niklaus Ammann, University of Bern, Switzerland

GROUP PHOTO

Sessions: Glycans in Diseases and Therapeutics | Cancer Biology and Structural Biology Glycoconjugates and Glycoscience | Glycosylation and Protein Function | Proteomics and Mass Spectrometry

Chair: Myron R Szewczuk, Queen's University, Canada
Co-Chair: Robert Engel, Queens College, USA

INTRODUCTION

Title: Biased G protein-coupled receptor agonism regulates glycosylated receptor activation
Myron R Szewczuk, Queen's University, Canada

Title: Lectin-driven and glycosphingolipid-dependent construction of endocytic pits for polarized distribution in cells by trafficking *via* the retrograde route
Ludger Johannes, Institut Curie, France

Title: Hyaluronan alters course of temperature dependent photodimerization of tyrosine residues in buffered solution
Julian M Menter, Morehouse School of Medicine, USA

Lunch Break @ Banquet Foyer

Title: What's in a carbohydrate binding pocket? Deciphering the code of the *E. coli* lectin FimH and the human galectin-3
Julie Bouckaert, CNRS, France

Title: Determination of oligosaccharides in human milk
Sean Austin, Nestle Research, Switzerland

Title: Manifestation of high-mannose type glycans in seminal plasma: Is there any importance for fertility?
Mirosława Ferens-Sieczkowska, Medical University of Wroclaw, Poland

Title: Bioactive glycoproteins from the Mollusc
Pavlina Dolashka, Bulgarian Academy of Sciences, Bulgaria

Title: Identification of peptides and glycopeptides from hemolymph of garden snail *H. lucorum* by mass spectrometry
Lyudmila Georgieva Velkova, Bulgarian Academy of Sciences, Bulgaria

Title: DNA based monofunctionalized galectins for clathrin independent endocytosis
Dhiraj Bhatia, Indian Institute of Technology, India

Title: Regulation of BMP signaling by N-glycanase 1 (NGLY1)
Antonio Galeone, University of Milan, Italy

Networking & Refreshments @ Banquet Foyer

Title: Repurposing inflammation drugs as anti-cancer agents in the multimodal treatment of metastatic pancreatic cancer
Bessi Qorri, Queen's University, Canada

Title: Mechanism of smart functionalized folic acid-conjugated amphiphilic alternating copolymer targeting glycosylated folic acid receptor FRα on cancer cells
Alexandria DeCarlo, Queen's University, Canada

Title: The primary structure of hemocyanin from marine snail *Rapana venosa*
Ventseslav Atanasov, Bulgarian Academy of Sciences, Bulgaria

Title: Hantavirus N protein regulates the host gene expression at translational level
Mohammad A Mir, Western University of Health Sciences, USA

POSTER PRESENTATIONS @ FOYER

Panel Discussion

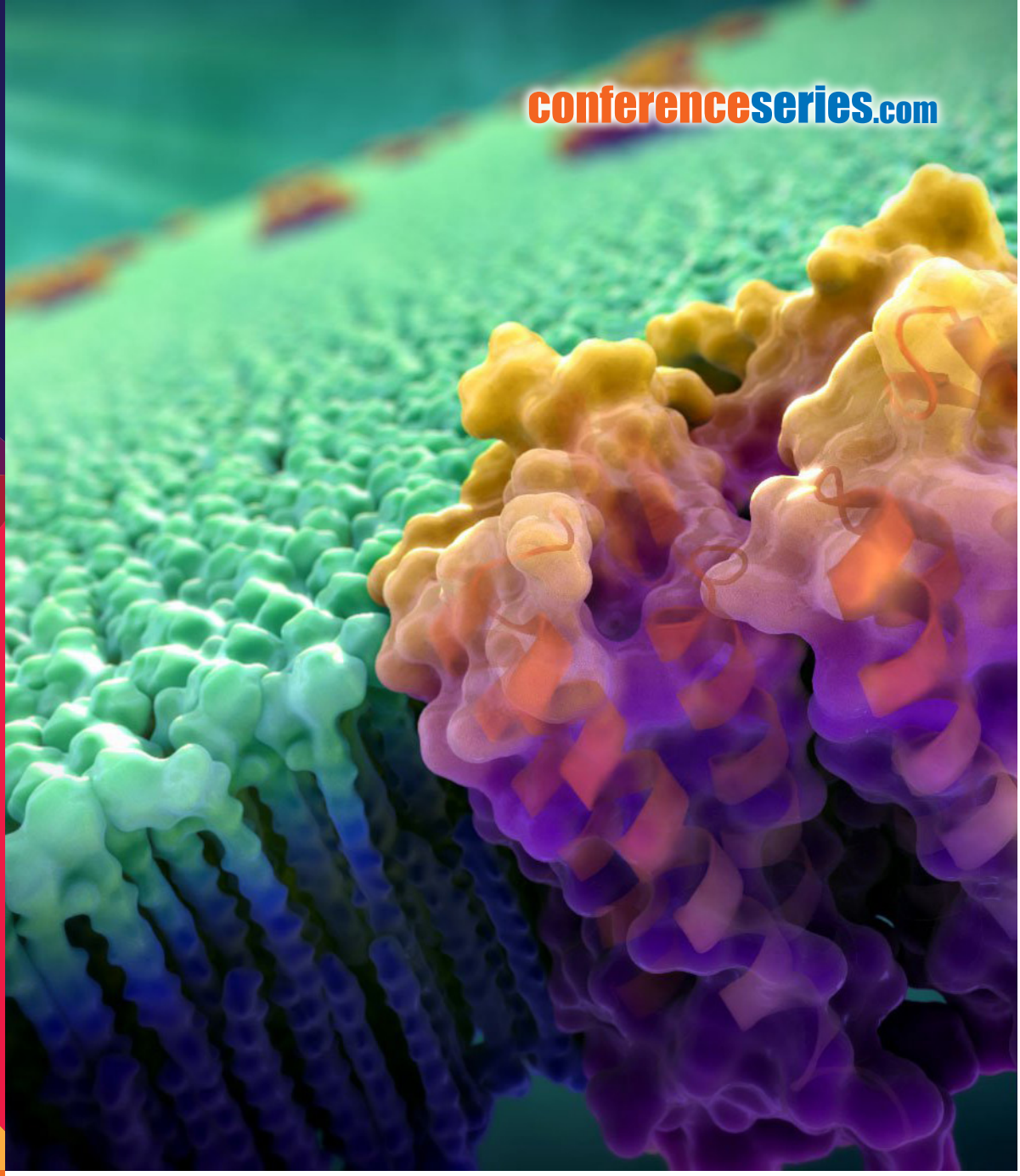
DAY-2

July 12, 2019

Extended Networking & Lunch @ Banquet Foyer

Awards & Closing Ceremony

Scientific Program



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4th Glycobiology World Congress

September 17-19, 2018 Rome, Italy

UK: Conference Series llc LTD
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DAY-1

September 17, 2018 | Monday

Meeting Hall: **Diana**

Registrations

Opening Ceremony

KEYNOTE FORUM

Introduction

Title: Cyclodextrin glycosides as materials for removal of biological pathogenic materials from the human environment
Robert Engel, Queens College, USA

Title: Effect of temperature on photochemical and thermal changes in calf skin collagen solutions ± hyaluronan at physiological pH
Julian M Menter, Morehouse School of Medicine, USA

Title: Neuraminidase-1 and its role in multistage tumorigenesis
Myron R Szewczuk, Queen's University, Canada

Sessions: Glycans in Diseases and Therapeutics | Cancer Biology and Structural Biology Glycobiology and Glycochemistry | Genomics and Metabolomics

Chair: Myron R Szewczuk, Queen's University, Canada
Co-Chair: Robert Engel, Queens College, USA

INTRODUCTION

10:35-10:55 **Title: The Thomsen-Friedenreich tumor-associated carbohydrate antigen in antitumor drug discovery**
Joseph J Barchi, National Cancer Institute at Frederick, USA

GROUP PHOTO

Networking & Refreshments @ Foyer

Title: Changes in glycosylation pattern and the emerging pathology of Zika Virus
Meghan May, University of New England College of Medicine, USA

Title: Biosynthesis of the galactomannan in *Aspergillus fumigatus*
Thierry Fontaine, Institut Pasteur, France

Title: Synthetic glycolipids: Insertion into cell membrane, dynamics and interaction with natural antibodies
Nicolai Bovin, Institute of Bioorganic Chemistry, Russia

Title: Hexofuranosides, chemistry and biocatalysis. From UDP-Galf to anti-adhesive surface
Vincent Ferrieres, CNRS, France

Title: Employing chemical glycobiology for immunotherapeutic approaches directed at cancer
Peter R Andreana, University of Toledo, USA

Lunch Break @ Restaurant

Title: Synthesis and functionality of multivalent glycocyclopeptides
Olivier Renaudet, University Grenoble Alpes, France

Title: Contribution of galectin-9 to tumor immune escape: Investigations on a pre-clinical model and characterization of neutralizing antibodies
Pierre Busson, CNRS, Gustave Roussy, France

Title: C-Glucopyranosyl heterocycles in antidiabetic research – The potential of glycogen phosphorylase inhibitors
Laszlo Somsak, University of Debrecen, Hungary

Title: Inhibition of N-Glycosylation towards novel anti-cancer chemotherapeutics
Michio Kurosu, The University of Tennessee Health Science Center, USA

Title: Discovering chemical solutions for neurodegeneration with the sweet molecules of life
Amelia P Rauter, University of Lisbon, Portugal

Title: The role of H_2O_2 in biomass conversion: New enzymatic mechanisms, new processes
Bastien Bissaro, Norwegian University of Life Sciences, Norway

Title: Applications of lectin-based proteomics in cancer biomarker discovery research
Onn Haji Hashim, University of Malaya, Malaysia

Networking & Refreshments @ Foyer

Title: Glycoconjugate metabolism: A common player for different brain disorders
Vittorio Maglione, IRCCS Neuromed Pozzilli, Italy

Title: Synthetic oligosaccharides can replace animal-sourced low-molecular weight heparins
Yongmei Xu, University of North Carolina at Chapel Hill, USA

Title: Dancing with non-digestible oligosaccharides in the gut to be immune-fit
Reshmi Mukherjee, Utrecht University, The Netherlands

Title: Coordinated deconstruction of lignocellulose by wood decay fungi
Marie-Noelle Rosso, Aix-Marseille University, France

Panel Discussion

DAY-2

September 18, 2018 | Tuesday

Meeting Hall: Diana

KEYNOTE FORUM

Title: Antimicrobial agents from sugars embodying a conjugated carbonyl system: Synthesis and bioactivity studies
Jorge Justino, Polytechnic Institute of Santarem, Portugal

Title: A new role for glycolipids in Niemann-Pick C
Dan J Sillence, De Montfort University, UK

Title: A new patient with a clinical profile of CDG-IIf suffers in reality from a severe α-1 anti-trypsin inhibitor syndrome
Rosella Mollicone, University Paris Sud-XI, France

Sessions: Glycosciences and Monosaccharides | Glycans in Vaccine Development | Structural Bioinformatics and Proteomics | Glycobiology in Lipid Science

Chair: Julian M Menter, Morehouse School of Medicine, USA
Co-Chair: Amelia P Rauter, University of Lisbon, Portugal

INTRODUCTION

Title: TSG-6: A multi-functional glycosaminoglycan-binding protein with potential as a biologic for inflammatory disease
Anthony J Day, University of Manchester, UK

Networking & Refreshments @ Foyer

Title: Galactose a nutrient specific for the extramitochondrial aerobic metabolism, rescued mouse demyelination consequent to isolation
Isabella Panfoli, University of Genoa, Italy

Title: Carbohydrate-related enzymes as innovative biocatalytic tools
Richard Daniellou, University of Orleans, France

Title: High-level production of human aquaporins in yeast
Kristina Hedfalk, University of Gothenburg, Sweden

Title: GLYcoPROFILE: Insight into glycan signature
Ludovic Landemarre, GLYcoDiag, France

Title:Organization and rheological properties of hyaluronan rich matrix surrounding ovulated oocytes
Antonietta Salustri, University of Rome Tor Vergata, Italy

Title: Lectin-driven and glycosphingolipid-dependent construction of endocytic pits
Ludger Johannes, Institut Curie, France

Title: **Marine polysaccharide-based matrixes for oral delivery of echinochrome**
Irina M Yermak, Elyakov Pacific Institute of Bioorganic Chemistry, Russia

Lunch Break @ Restaurant

Title: Linking golgi organization and glycan processing
Daniel Ungar, University of York, UK

Title: Mechanisms of endoplasmic reticulum-associated degradation (ERAD-L) of glycoproteins and non-glycoproteins
Kazutoshi Mori, Kyoto University, Japan

Title: *Scytalidium sp.*, 3C is a promising toolbox for biomass degradation
Anna A Kulminskaya, Konstantinov Petersburg Nuclear Physics Institute, Russia

Title: Rational design of adjuvants, ligands of the C-type lectin mincle
Alexiane Decout, Ecole Polytechnique Federale de Lausanne, Switzerland

Title: Mass spectrometry based serum glycoproteomic profiling: Challenges and opportunities
Yishai Levin, Weizmann Institute of Science, Israel

Networking & Refreshments @ Foyer

Title: The anti-melanogenic effect of unsaturated fatty acids covalently bonded to hyaluronan
Gloria Huerta-Angeles, Contipro Inc., Czech Republic

Title: Conformational and interaction properties of antithrombin binding oligosaccharides obtained by chemo-enzymatic synthesis: An NMR and MD simulation characterization
Stefano Elli, Ronzoni Institute, Italy

Title: Neuraminidase-1 and its role in multimodal therapy preventing chemotherapy resistance and metastasis in pancreatic cancer
Bessi Qorri, Queen's University, Canada

Title: Aberrant sialylation patterns to evaluate the efficacy of a novel multimodal combination treatment of cancer
Manpreet Sambi, Queen's University, Canada

Title: Synthesis of novel nucleos(t)ide analogs as promising lead molecules for the symptomatic treatment of Alzheimer's disease
Rita Goncalves-Pereira, University of Lisbon, Portugal

Title: Predicting power of fasting blood glucose as a risk factor of metabolic syndrome among recently diagnosed breast cancer Jordanian women
Safaa Al-Zeidaneen, Al-Balqa Applied University, Jordan

POSTER PRESENTATIONS @ MEETING ROOMS

Panel Discussion

DAY-3

September 19, 2018 | Wednesday

Meeting Hall: **Diana**

KEYNOTE FORUM

Title: Synthesis and evaluation of multivalent thioglycoclusters
Jose Kovensky, University of Picardy Jules Verne, CNRS, France

Title: Secretion of ribosomal protein S3 in cancer cells is mediated by N-glycosylation
Joon Kim, Korea University, South Korea

Sessions: Mass Spectrometry Analysis | Glycans in Structural and Computational Systems Biology | Glycoconjugates, Glycomics and Transcriptomics

Chair: Jose Kovensky, University of Picardy Jules Verne, CNRS, France
Co-Chair: Francoise Guerlesquin, CNRS, France

INTRODUCTION

Title: Cross-modulation of protein-protein and protein-glycan interactions is required for galectin functions
Francoise Guerlesquin, CNRS, France

Title: Scientific aspects of biopharmaceutical PTM characterization
Sven Bahrke, Glycotope GmbH, Germany

Networking & Refreshments @ Foyer

Title: Golgi stress response regulates expression of glycosylation enzymes
Hiderou Yoshida, University of Hyogo, Japan

Title: Abnormalities in perineuronal nets and behavior in mice without CSGalNAcT1, a key enzyme in chondroitin sulfate synthesis in brain
Michihiro Igarashi, Niigata University, Japan

Title: Novel types of nucleosides with therapeutic potential
Nuno Manuel Xavier, University of Lisbon, Portugal

Title: Identification of peptides and glycopeptides with antimicrobial activity from garden snail *C. aspersum* using mass spectrometry
Lyudmila Velkova, Bulgarian Academy of Sciences, Bulgaria

Title: Specific glycosidases in Quiescent *S. cerevisiae* culture and their functions
Pavlina Dolashka, Bulgarian Academy of Sciences, Bulgaria

Title: Defining D-Arabinose metabolism in *Leishmania* major and *Crithidia Fasciculata*
Elda Iljazi, University of Dundee, Scotland

Title: Inhibition of advanced glycation end-products (AGEs) by polyphenols from *Achillea* species
Mehran Miroliaei, University of Isfahan, Iran

Title: Sulfavant, marine derived sulfoglycolipid with immunomodulant activity and its development as vaccines in immunitherapy
Emiliano Manzo, National Research Council, Italy

Title: New materials and reagents for efficient enrichment and identification of glycosylated proteins and peptides
Weijie Qin, Beijing Proteome Research Center, China

Lunch Break @ Restaurant

Panel Discussions

Award Ceremony