



FASEB

Federation of American Societies
for Experimental Biology

Science Research Conferences

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Microbial Glycobiology

Scottsdale, Arizona

June 17-22, 2018

Organizers:

Mario Feldman

Washington University School of Medicine, St Louis

Amanda Lewis

Department of Molecular Microbiology, Washington University School of Medicine

Michael Jennings

Institute for Glycomics

Jochem Zimmer

University of Virginia

Sunday, June 17, 2018

4:00 p.m. – 9:00 p.m.	Conference Registration	
6:00 p.m. – 7:00 p.m.	Welcome Reception	
7:00 p.m. – 8:00 p.m.	Dinner	
8:00 p.m. – 9:00 p.m.	<u>Keynote Speaker</u> The many wonders of the bacterial cell surface	Chris Whitfield, University of Guelph, CA

Monday June 18, 2018

7:30 a.m. – 12:00 p.m.	Conference Registration	
7:30 a.m. – 9:00 a.m.	Breakfast	
9:00 a.m. – 9:30 a.m.	<p>Cell Surface Exposed Glycans of Bacteria and Archaea</p> <p>Session Chair: Mario Feldman</p> <p>Remodeling the Bacterial Cell Envelope During Growth and Differentiation</p>	David Rudner, Harvard Medical School, USA
9:30 a.m. – 10:00 a.m.	Lipopolysaccharide modification in Gram-negative bacteria during chronic infection	Miguel Valvano, Queens University, Belfast, Ireland
10:00 a.m. – 10:20 a.m.	Two short talks	
10:20 a.m. – 10:40 a.m.	<i>FASEB Sponsored Coffee Break</i>	
10:40 a.m. – 11:10 a.m.	Glycobiology of a Superbug	Mario Feldman, Washington University School of Medicine, St Louis.
11:10 a.m. – 11:40 a.m.	Glycan:glycan interactions: High affinity biomolecular interactions that can mediate binding of pathogenic bacteria to host cells	Chris Day, Griffith University, Australia,
11:40 a.m. – 12:00 p.m.	Two short talks	
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. – 2:00 p.m.	Meet the Expert	
1:00 p.m. – 4:00 p.m.	Free time	
4:00 p.m. – 6:00 p.m.	Poster Session	
6:00 p.m. – 7:00 p.m.	Dinner	
7:00 p.m. – 7:30 p.m.	<p>Bacterial Protein Glycosylation</p> <p>Session Chair: Michael Jennings</p> <p>Bacterial protein glycosylation - is this becoming the norm?</p>	Christine Szymanski, University of Georgia, USA
7:30 p.m. – 8:00 p.m.	Molecular mechanisms of N-linked protein glycosylation	Markus Aebi, ETH Zurich
8:00 p.m. – 8:20 p.m.	2 Short talks	

8:20 p.m. to 8:30 p.m.	Break	
8:30 p.m to 9:00 p.m	Bacterial protein glycosylation - the dark matter of microbiology.	Brendan Wren, London School of Hygiene and Tropical Medicine
9:00 p.m to 9:30 p.m	Posttranslational modifications of mycobacterial proteins.	John Belisle, Colorado State University, USA

Tuesday, June 19 , 2018

7:30 a.m. – 12:00 p.m.	Conference Registration	
7:30 a.m. – 9:00 a.m.	Breakfast	
9:00 a.m. – 9:30 a.m.	<p>Vaccines and Glyco-engineering</p> <p>Session Chair: Michael Kowarik</p> <p>Use of bacterial glycoproteins for diagnostics of bacterial infections.</p>	Juan Ugalde, Universidad de San Martin, Argentina
9:30 a.m. – 10:00 a.m.	Conjugate vaccines for livestock infections	Mariela Segura, Univerisity of Montreal, Canada
10:00 a.m. – 10:20 a.m.	<i>Two short talks</i>	
10:20 a.m. – 10:40 a.m.	<i>FASEB Sponsored Coffee Break and *Group Photo</i>	
10:40 a.m. – 11:10 a.m.	Developing the new generation of bioconjugate vaccines	Michael Kowarik, Limmatech Inc, Switzerland,
11:10 a.m. – 11:40 a.m.	Novel strategy for production of glycoconjugate vaccines	Francesco Berti, GSK, Italy
11:40 a.m. – 12:00 p.m.	<i>Two short talks</i>	
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. – 2:30 p.m.		

2:30 p.m. – 4:30 p.m.	Free time	
4:30 p.m. – 6:30 p.m.		
6:30 p.m. – 8:00 p.m.	Dinner	
	Structure & Function of Carbohydrate Active Enzymes	
	Session Chair: Jochen Zimmer	
7:00 p.m. – 7:30 p.m.	Transport of biopolymers across biological membranes	Jochen Zimmer, University of Virginia School of Medicine, USA
7:30 p.m. – 8:00 p.m.	Mycobacterial glycosyltransferases: structures, functions, and mechanisms	Marcelo Guerin, Universidad del País Vasco, Spain
8:00 p.m. – 8:20 p.m.	Two short talks	
8:20 p.m. to 8:30 p.m.	Break	
8:30 p.m to 9:00 p.m	Structural basis for sialoglycan binding by the Streptococcus sanguinis SrpA adhesion	Tina Iverson, Vanderbilt University School of Medicine, USA
9:00 p.m to 9:30 p.m	Glycosaminoglycan polysaccharide biosynthesis and production: today and tomorrow	Paul De Angelis, University of Oklahoma, USA

Wednesday, June 20, 2018

7:30 a.m. – 9:00 a.m.	Breakfast	
	Glycans in Microbial Symbiosis and Dysbiosis	
	Session Chair: Nathalie Juge	
9:00 a.m. – 9:30 a.m.	Interplay of ecology and evolution in the gut microbiota: A case study of polysaccharide-degrading Bacteroides	David Berry, University of Vienna
9:30 a.m. – 10:00 a.m.	Carbohydrate-active enzymes in the human gut metagenomes	Bernard Henrissat, CNRS, France
10:00 a.m. – 10:20 a.m.	Two short talks	
10:20 a.m. – 10:40 a.m.	<i>FASEB Sponsored Coffee Break</i>	

10:40 a.m. – 11:10 a.m.	Coevolution of yeast mannan digestion: an example of trans-Kingdom interactions in the human gut	David Bolam, Newcastle University
11:10 a.m. – 11:40 a.m.	Recognition and degradation of plant cell wall polysaccharides in the human gut microbiota	Elisabeth Lowe, Newcastle University, United Kingdom
11:40 a.m. – 12:00 p.m.	<i>Two short talks</i>	
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. – 2:30 p.m.	Career Development workshop	
2:30 p.m. – 4:30 p.m.	Free time	
4:30 p.m. – 6:30 p.m.		
6:00 p.m. – 7:00 p.m.	Dinner	
	Glycans in Microbial Communities and Biofilms	
	Session Chair: Tina Schaeffer	
7:00 p.m. – 7:30 p.m.	Biofilm exopolysaccharides of pathogenic fungi: lessons from bacteria	Lynne Howell, University of Toronto, Canada
7:30 p.m. – 8:00 p.m.	Fungal biofilm composition and opportunities in drug discovery.	Lynette Cegelski, Stanford University, USA
8:00 p.m. – 8:20 p.m.	Two short talks	
8:20 p.m. to 8:30 p.m.	Break	
8:30 p.m to 9:00 p.m	Cyclic-di-GMP signaling in bacterial biofilm formation and stress responses	Regina Hengge, Humboldt University Berlin, Germany
9:00 p.m to 9:30 p.m	Glycobiology of oral biofilms	Tina Schaeffer, BOKU University, Austria

Thursday, June 21 2018

7:30 a.m. – 9:00 a.m.	Breakfast	

9:00 a.m. – 9:30 a.m.	Glycobiology of Eukaryotic Pathogens Session Chair: Richard Cummings Extracellular carbohydrates in oomycetes. The Leishmania surface glycoalyx. Two short talks	Vincent Bulone, University of Adelaide, Australia
9:30 a.m. – 10:00 a.m.		Stephen Beverley, Washington University School of Medicine, USA
10:00 a.m. – 10:20 a.m.		
10:20 a.m. – 10:40 a.m.	<i>FASEB Sponsored Coffee Break</i>	
10:40 a.m. – 11:10 a.m.	Helminth glycomics - glycan repertoires and host-parasite interactions. Parasite glycobiology and anti-parasitic strategies. 2 short talks	Cornelis Hokke, University of Leiden, Netherlands
11:10 a.m. – 11:40 a.m.		Francoise Routier, Hannover Medical School, Germany
11:40 a.m. – 12:00 p.m.		
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. – 2:00 p.m.		
2:00 p.m. – 4:30 p.m.	Free time	
4:30 p.m. – 6:00 p.m.		
6:00 p.m. – 7:00 p.m.	Dinner	
7:00 p.m. – 7:30 p.m.	Diverse Roles of Carbohydrates in Bacterial Pathogenesis Session Chair: Amanda Lewis Bacterial glycosyltransferase toxins Functions of translocated bacterial glycosyltransferases Two short talks Break Interplay between bacterial surface glycans and host immunity: implications for antimicrobial therapies. Roles of bacterial sialidases in the	Klaus Aktories, University of Freiburg, Germany
7:30 p.m. – 8:00 p.m.		Phil Hardwidge, Kansas State University, USA
8:00 p.m. – 8:20 p.m.		
8:20 p.m. to 8:30 p.m.		
8:30 p.m to 9:00 p.m		Nina Van Sorge, Utrecht University, Netherlands
9:00 p.m to 9:30 p.m		Amanda Lewis, Washington University School of Medicine, USA

	pathogenesis of bacterial vaginosis	

Friday, June 22, 2017

7:30 a.m. – 9:00 a.m.	Breakfast and Departure Lunch boxes available.	
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END OF CONFERENCE

For additional information contact:
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