



33rd Joint Glycobiology Meeting

September 29 – October 1, 2024 | Hannover, Germany

Sunday, September 29

15:00 – 16:25 Registration & Poster Mounting


16:25 – 16:30 Welcome and Opening Remarks

Session 1 – ER-Glycosylation Chair: Sabine Strahl

16:30 – 17:00	FOR2509 Lecture	Irmgard Sinning <i>Heidelberg University, Germany</i> Towards a structural understanding of Protein O-mannosylation
17:00 – 17:15	T01	Shahidul Alam , <i>Heidelberg University, COS, Heidelberg, Germany</i> Consequences of defective POMT-based protein O-mannosylation in the context of integrin β 1
17:15 – 17:30	T02	Kaisa Pakari , <i>Heidelberg University, Germany</i> Pmm2-CDG in medaka fish: A patient-based model for investigating congenital disorders of glycosylation
17:30 – 17:45	T03	Andreas Hecker , <i>University Hospital Heidelberg, Germany</i> Role of CYP1B1 in SRD5A3-CDG: A key player for ophthalmological abnormalities?
17:45 – 18:00	T04	Ines B. Moreira , <i>Hannover Medical School, Germany</i> Neolactotetraosylceramide is a novel biomarker for bladder cancer
18:00 – 18:45	Keynote Lecture presented by FOR2509	Adnan Halim <i>University of Copenhagen, Denmark</i> Recent Advances in Protein O-Mannosylation: Structure, Function and Disease
19:00 - 21:00	Welcome Reception Foyer of the Lecture Hall Join us for an informal get-together with food & drinks	

Monday, September 30

Session 2 – Chemical Glycobiology and Glycan Tools Chair: Martina Mühlenhoff


08:45 – 09:15	 Lecture	Ben Schumann <i>Imperial College London, Francis Crick Institute, London, United Kingdom</i> Glycosyltransferase bump-and-hole engineering to understand glycosaminoglycan biosynthesis
09:15 – 09:30	T05	Nishu Yadav , <i>Max Planck Institute of Colloids and Interfaces, Potsdam, Germany</i> Synthesis and structural analysis of carbohydrate foldamers
09:30 – 09:45	T06	Sushmaa Danguubiyyam , <i>CNRS-UGSF, University de Lille, Villeneuve d'Ascq, France</i> Development of microplate glycosyltransferase assays for enzymatic characterization and inhibitor screening
09:45 – 10:00	T07	Oren Moscovitz , <i>Max Planck Institute of Colloids and Interfaces, Potsdam, Germany</i> The development of a nanobody against <i>Streptococcus pneumoniae</i> serotype 14 for lung cancer theranostics
10:00 – 10:30	Poster Slam 1 (P1 - P12)	
10:30 – 11:15	Coffee Break	

Session 3 – Glycan Imaging and Analytics Chair: Falk Büttner

11:15 – 11:45	FOR2509 Lecture	Kelvin Anggara <i>Max Planck Institute for Solid State Research Stuttgart, Germany</i> Analyzing structures of glycans and glycoconjugates at single molecule level by direct imaging on surface
11:45 – 12:00	T08	Lisa Isernhagen , <i>Research Institute for Farm Animal Biology, Dummerstorf, Germany</i> Characterization of Milk Oligosaccharides in Water Buffalos During Early Lactation
12:00 – 12:15	T09	Frania J. Zuniga-Banuelos , <i>MPI Magdeburg, Germany</i> Expanding glycoproteomics: Including N-glycopeptides bearing glucuronidated, O-acetylated or sulfated N-glycans in the analysis of human serum proteins such as immunoglobulin A
12:15 – 12:30	T10	Agnes Hipgrave Ederveen , <i>Leiden University Medical Center, Leiden, Netherlands</i> Detailed mass spectrometric characterization of cellular glycosylation after metabolic glycoengineering using monosaccharide inhibitors
12:30 – 13:00	Poster Slam 2 (P13 – P24)	
13:00 – 14:00	Lunch Break	
14:00 – 16:30	Poster Session	

Monday, September 30

Session 4 – Glycans in Host-Pathogen Interactions Chair: Francoise Routier



16:30 – 17:00	 Lecture	Nina van Sorge <i>Amsterdam UMC, Medical Microbiology and Infection Prevention, Amsterdam, Netherlands</i> Trick or treat: bacterial glycans as virulence factors and targets for host defense
17:15 – 17:30	T11	Christian Roth , <i>MPI of Colloids and Interfaces, Berlin, Germany</i> Structural and functional investigations into bacterial Peptidylglycosyltransferases
17:30 – 17:45	T12	Irem Demir , <i>Université Catholique de Louvain, Louvain-la-neuve, Belgium</i> Probing molecular interactions between virus and host cell under physiologically relevant conditions
17:45 – 18:00	T13	Robert P. de Vries , <i>Utrecht University, Utrecht, Netherlands</i> The HCoV-HKU1 N-terminal domain binds a wide range of 9-O-acetylated sialic acids presented on different glycan cores
18:15		Guided Walk to Hotel Bischofshol (1,7 km; 25 min)
19:00		MEET THE EXPERTS Networking Dinner Restaurant Hotel Bischofshol Bemeroder Str. 2

Tuesday, October 01

Session 5 – Glycans in Health and Disease Chair: Rita Gerardy-Schahn

09:00 – 09:30	FOR2509 Lecture	Christian Thiel <i>University Hospital Heidelberg, Germany</i> Congenital disorders of glycosylation – from patients, therapies and some curiosities
09:30 – 09:45	T14	Hauke Thiesler , <i>Hannover Medical School, Germany</i> Alleviation of synaptic and cognitive symptoms in mouse models of dementia by polysialic acid of specific polymer size
09:45 – 10:00	T15	Carolin Neu , <i>Martin-Luther-University Halle-Wittenberg, Halle, Germany</i> The Role of GNE and Sialylation in GNE Myopathy
10:00 – 10:15	T16	Lydia Bosse , <i>Hannover Medical School, Germany</i> Identification of a second catalytic center in the sialate O-acetyltransferase CASD1
10:15 – 10:30	T17	Ruonan Liang , <i>Utrecht University, Utrecht, Netherlands</i> The molecular basis of receptor binding of contemporary H3N2 viruses that reverted to bind sialylated diLacNAc repeats
10:30 – 10:45	T18	Anna Steinmetz , <i>Research Institute for Farm Animal Biology, Dummerstorf, Germany</i> The application of polysialylated bioconjugates to visualize and degrade neutrophil extracellular traps
10:45 – 11:30	Coffee Break and Poster Session	

Session 6 – Glycoimmunology Chair: Bernd Lepenies

11:30 – 12:00	 Lecture	Paula Videira <i>NOVA School of Science and Technology, Universidade Nova de Lisboa, Almada, Portugal</i> Advancing Cancer Therapeutics with Glycobiology
12:00 – 12:15	T19	Lise Hafkenscheid , <i>Leiden University Medical Center, Leiden, Netherlands</i> The glycan switch: a critical determinant in anti-citrullinated protein antibody pathogenesis
12:15 – 12:30	T20	Markus Abeln , <i>Hannover Medical School, Hannover, Germany</i> Complement activation in sialoglycan negative pregnancies
12:30– 12:45	T21	Felix Stegmann , <i>University of Veterinary Medicine Hannover, Hannover, Germany</i> The C-type lectin receptor Mincle is crucial for epigenetic reprogramming of macrophages by <i>Legionella pneumophila</i> -derived factors
12:45 – 13:00	T22	Guntram Grassl , <i>Hannover Medical School, Hannover, Germany</i> <i>Akkermansia muciniphila</i> changes intestinal glycans and improves Salmonella-induced colitis and fibrosis by inhibiting pathogen adhesion to the epithelium
13:00 – 13:15		GBM Poster Award Concluding Remarks & Announcement of the 34th JGM 2025
13:15 – 14:00	Lunch Snack & Farewell	