GlycoT 2012DORMERO Hotel, Hildesheimer Str. 34-38, Hannover, Germany 5-9 June 2012

Tuesday, 5 June 2012

Chair:	Rita Gerardy-Schahn	
15:30	Rita Gerardy-Schahn	Opening
15:40	Naoyuki Taniguchi	Brain specific expression of glycosyltransferase and its epigenetic regulation
16:20	Klaus Aktories	Glycosylation by bacterial protein toxins
17:00	Coffee Break	
17:20	José M. Estevez	Sweet growth of plant cells. New players on the O-glycosylation pathway
18:00	Anne Harduin-Lepers	Comprehensive analysis of sialyltransferase- related genes evolution in vertebrates: Molecular phylogeny and functional genomics approaches
19:00	Welcome Reception (Landesmuseum, Willy-Br	randt-Allee 5, Hannover)

Wednesday, 6 June 2012

Chair:	Mark von Itzstein	
09:00	Monica Palcic	Mechanisms of retaining glycosyltransferases
09:30	Steve Withers	Glycosyltransferases: electrostatics, dynamics and mechanisms through the "eyes" of NMR
10:00	Christelle Breton	Galactolipid synthases : Structure/Function and Evolution
10:30	Coffee Break	

Chair:	Yasuhiro Kajihara	
11:00	Kaspar Locher	Structure and reaction mechanism of the bacterial oligosaccharyltransferase PglB
11:30	Yoshiki Yamaguchi	Structural aspects of protein N-glycosylation
12:00	Gaëlle Batot	Preliminary kinetic crystallographic study of human blood group B synthase
12:10	Yasuhiro Kajihara	Chemical synthesis of intentionally misfolded homogeneous glycoprotein: a unique approach for the study of glycoprotein quality control
12:20	Annika Hult	Forssman expression on human red cells – Biochemical and genetic evidence for a novel histo-blood group system with implications for pathogen susceptibility
12:30	Lunch Break	
Chair:	Ole Hindsgaul	
14:00	Koichi Furukawa	Involvement of complex carbohydrates in the cancer phenotypes and therapeutic application
14:30	Hans Bakker	Endoplasmic reticulum localized glycosyltransferases
15:00	Philippe Delannoy	The ganglioside GD2 induced the constitutive activation of c-Met receptor in MDA-MB-231 breast cancer cell line expressing GD3 synthase
15:10	Alice Yu	Important role of fucosyltransferase 1 and 2 in breast cancer
15:20	Xing Li	The regulatory role of UDP-GalNAc: polypeptide N-acetylgalactosaminyltransferases 18 in protein O-Glycosylation
15:30	Coffee Break	
Chair:	Werner Reutter	
16:00	Henrik Clausen	Mining the elusive O-glycoproteome using Zinc finger nuclease glycoengineered SimpleCells
16:30	Kelly Ten Hagen	Essential roles for the UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferases during development
17:00	Thierry Hennet	Collagen glycosyltransferases
17:30	POSTER SESSION A	

Thursday, 7 June 2012

Chair:	Irma van Die	
09:00	Taroh Kinoshita	Deficiencies of GPI mannosyltransferase 1 and 2 cause different fates of GPI anchored proteins
09:30	Mike Ferguson	The glycosyltransferases of Trypanosoma brucei
10:00	Pradman Qasba	Structure-function analysis of the sugar donor and acceptor binding sites of b1,4-Galactosyltransferase
10:30	Coffee Break	
Chair:	Philippe Delannoy	
11:00	Frederic Bard	The GalNAcTs activation pathway in cancer
11:30	Sakari Kellokumpu	Functional organization of the Golgi N- and O-glycosylation pathways
12:00	Ken Kitajima/ Chihiro Sato	A polysialyltransferase SNP in a schizophrenic patient brings about the production of polysialic acids showing impaired binding and signalling of BDNF and FGF2
12:30	Lunch Break	
Chair:	Dirk Lefeber	
14:00	Rick Cummings	Functions of O-glycans in development and hemostasis
14:30	Michael Tiemeyer	Cellular and molecular mechanisms regulating tissue-specific glycan expression
15:00	Kei-ichiro Inamori	Xylosyl- and glucuronyltransferase activities of LARGE required for dystroglycan function
15:15	Dirk Lefeber	Loss of complete and partial N-glycans in a novel CDG subtype, restored by dietary intervention
15:30	Coffee Break	
Chair:	Cheorl-Ho Kim	
16:00	Herta Steinkellner	Glycoengineering in plants towards human like structures
16:30	Lai-Xi Wang	Chemoenzymatic glycosylation engineering of monoclonal antibodies

17:00	Atsushi Kuno	Discovery of glycobiomarker for cancer and development of simple assay kit for clinical diagnosis
17:30	POSTER SESSION B	

Friday, 8 June 2012

Chair:	Martina Mühlenhoff	
09:00	Chris Whitfield	Glycosyltransferases and chain termination processes in the biosynthesis of bacterial Oantigen polysaccharides
09:30	Christine Szymanski	Comparison of bacterial oligosaccharyl- transferases for protein N-glycosylation
10:00	Miguel A. Valvano	Aminoarabinose is essential for lipopoly- saccharide export and intrinsic antimicrobial peptide resistance in Burkholderia cenocepacia
10:30	Coffee Break	
Chair:	Herbert Hildebrandt	
11:00	Pamela Stanley	Essential roles for glycosyltransferases in development
11:30	Thomas Braulke	Defects in GlcNAc-1-phosphotransferase cause neurodegeneration and osteoporosis
12:00	Jianguo Gu	Molecular mechanism for the regulation of N-actylglucosaminyltransferase III expression and its roles in epithelial-mesenchymal transition
12:30	Lunch Break	
Chair:	Rüdiger Horstkorte	
14:00	Michael Pierce	Expression of a specific glycosyltransferase is essential for embryonic stem cell differentiation
14:30	Shoko Nishihara	Glycan function in the maintenance of ES cells
15:00	Salomé Pinho	N-acetylglucosaminyltransferases III and V regulate E-cadherin stability at the cell membrane. Implications in the epithelial to mesenchymal transition
15:10	Markus Sperandio	ST3Gal-IV and ST3Gal-VI contribute to leukocyte rolling during inflammation

15:20	Cheorl-Ho Kim	Molecular glycobiology of pig CMP-N- acetylneuraminic acid hydroxylase and transcpritonal regulation for NeuGc as the xenoantigenic determinant in pig-to-human xenotransplantation
15:30	Coffee Break	
Chair:	Gerd Wagner	
16:00	Tamao Endo	Glycosylation and muscular dystrophy
16:30	John Yu	Human embryonic stem cell differentiation: role of glycosphingolipid structure
17:00	Franz-Georg Hanisch	Peptide cis-control of O-linked LacdiNAc formation and LacdiNAc-specific glycan phosphorylation: post-translational control of extracellular matrix glycoprotein function?
17:10	Cory Rillahan	Global Metabolic Inhibitors of Sialyl- and Fucosyltransferases
17:20	Gerd Wagner	A Novel Class of Glycosyltransferase Inhibitors
17:30	POSTER SESSION C	
19:00	Conference Dinner (Neues Rathaus "Gartensaal", Trammplatz 2, Hannover)	

Saturday, 9 June 2012

Chair:	Koichi Furukawa	
09:00	Jamey Marth	Glycosylation in the Metabolic Origins of Common Grievous Disease
09:30	Robert S. Haltiwanger	Site-specific glycosylation of EGF repeats in Notch
10:00	Hans Wandall	A neurofibromatosis-like phenotype in Drosophila caused by lack of glucosylceramide extension
10:10	Pi-Wan Cheng	Non-muscle myosin IIA transports a Golgi glycosyltransferase to the endoplasmic reticulum for recycling
10:20	Vaibhav Kapuria	HCF-1 cleavage and glycosylation are distinct activities of OGT dimers
10:30	Coffee Break	

Chair:	Roland Schauer	
11:00	Jerry Hart	O-GlcNAcylation's key roles in the diseases of aging
11:30	Daan Van Aalten	Phosphorylation versus O-glycosylation: yin and yang?
12:00	Hisashi Narimatsu	A knockout mouse lacking a novel glycosyl- transferase gene which shows a very unique phenotype
12:30	End of Meeting	