

Second Joint Japanese/German Meeting

September 07, 2007

Radisson SAS Senator Hotel : Room "Hamburg"

23554 Lübeck, Willy-Brandt-Allee 6

Supported by the 21st century COE Program, "Integrated functional analyses of disease associated sugar chains and proteins," Osaka University and the JSPS core to core program.

13:45 **Welcome refreshments in the lobby of "Room Hamburg"**

14:15 **Opening remarks :**

Dr. Naoyuki Taniguchi (Japanese Organizer)

Dr. Rita Gerardy-Schahn (German Organizer)

Chairpersons Rita Gerardy-Schahn and Naoyuki Taniguchi

14:30 Tomoya Isaji, Tohoku pharmaceutical University, Japan:
***N*-Glycans of β -propeller domain of $\alpha 5$ subunit are essential for $\alpha 5\beta 1$ heterodimer formation and its biological functions**

14:45 Laura Bindila, *Institute for Medical Physics and Biophysics*
University of Münster, Germany:
Hyphenated and chip-enhanced mass spectrometric techniques for functional glycoproteomic studies

15:00 Michihiko Waki, University of Tokyo, Japan:
Processing of Intracellular Heparin by Heparanase in Mast Cells: Possible Regulation of Tryptase Activity

15:15 Sebastian Galuska, *Institute of Biochemistry, Faculty of Medicine*
Justus-Liebig-University Giessen, Germany
Characterization of oligo- and polysialic acid by MALDI-TOF-MS

- 15:30 Shin-ichi Tanaka, Osaka University, Japan:
Efficient microfluidic α -sialylation for the synthesis of sialic acid-containing oligosaccharides
- 15:45 Philipp Schmalhorst, *Institute for Cellular Chemistry, Medical School Hannover, Germany*
Contribution of galactofuranose to *Aspergillus fumigatus* virulence
- 16:00 Atsushi Shimoyama, Osaka University, Japan:
Synthesis of *Helicobacter pylori* lipopolisaccharide (LPS) partial structures, which regulate the host's innate immune activation
- 16:15 Isabelle Breloy, *Institute of Biochemistry II, Center for Molecular Medicine, University of Cologne*
Mammalian O-mannosylation is controlled by peptide regions within and upstream of the alpha-dystroglycan mucin domain
- 16:30 *Coffee break***
- Chairpersons: Lothar Elling and Toshisuke Kawasaki***
- 17:00 Katsuaki Usami, University of Tokyo, Japan:
Importance of interaction between macrophage galactose-type C-type lectin (MGL/CD301) and viral envelope glycoprotein O-glycans in the infectivity of Ebola virus
- 17:15 Christoph Rademacher, *Institute for Chemistry, University Lübeck, Germany*
Histo-Blood Group Antigen Recognition by Caliciviruses as studied by STD NMR
- 17:30 Makoto Hirano, Kyoto University, Japan:

The interaction of MBP with meprins activates complement in the ischemia/reperfusion injury of kidney

- 17:45 René Ranzinger, *German Cancer Research Center Molecular Structure Analysis, Heidelberg, Germany*
Glycome-DB: Comparison of the glycan structural space of mammals and bacteria
- 18:00 Katsunori Tanaka, Osaka University, Japan:
A submicrogram-scale protocol for biomolecule-based PET imaging via rapid 6π -azaelectrocyclization
- 18:15 Silke Berski, *Institute for Organic Chemistry, Gottfried Wilhelm Leibniz Universität Hannover*
Polysialic Acid Hydrogels as Biomaterials for Tissue Engineering
- 18:30 Ryo Misaki, Osaka University, Japan:
Recycling endosomes are indispensable during retrograde transport of cholera toxin from the plasma membrane to the Golgi complex
- 18:45 Claudia Rech, *Laboratory for Biomaterials, Institute for Biotechnology and Helmholtz-Institute for Biomedical Engineering, RWTH Aachen University, Germany*
Biofunctionalization of Biomaterials with Poly-LacNAc and Galectins
- 19:00 **Closing remarks**
- 19:15 **Common dinner (Scahbbelhaus, Mengstr. 48-52)**