

International Symposium on Systems Glycobiology

-A Bridge between Functional Glycomics and Chemical Biology-

December 5, 2008 / Tokyo Conference Center (Shinagawa)

Opening Remarks

9:25-9:35 Naoyuki Taniguchi (RIKEN)

9:35-9:45 Kohei Tamao (RIKEN)

Session 1: Chemical Glycobiology

Chair: Mikiko Sodeoka (RIKEN); Minoru Yoshida (RIKEN)

9:45-10:10 Hiroyuki Osada (RIKEN)

“Chemical biological approach to elucidate heparanase function”

10:10-10:35 Yukishige Ito (RIKEN)

“Analysis of glycoprotein processing based on organic synthesis”

10:35-11:15

Coffee Break/Poster Session -1

11:15-11:40 Koichi Fukase (Osaka Univ.)

“Synthesis of glycan libraries for elucidation of their biofunctions”

11:40-12:20 Peng George Wang (Ohio State Univ.)

“Chemical biology of microbial protein glycosylation and polysaccharide biosynthesis”

12:20-13:15

Lunch

Session 2: Structure and Quality Control of Glycoproteins

Chair: Tamao Endo (TMIG), Koichi Kato (IMS)

13:15-13:40 Yoshiki Yamaguchi (RIKEN)

“Structural glycobiology for elucidating the function of glycoproteins: a multifaceted approach”

13:40-14:05 Tadashi Suzuki (RIKEN)

“Non-lysosomal degradation pathway for free N-linked oligosaccharides”

14:05-14:45 William J. Lennarz (Stony Brook Univ.)

“Studies on a glycoprotein degradation complex”

14:45-15:25 Jürgen Roth (Univ. Zurich)

“The cellular fate of the ERAD component EDEM1 and of incompletely assembled oligomeric glycoproteins”

15:25-16:05

Coffee Break/Poster Session -2

Session 3: Disease Glycomics

Chair: Akemi Suzuki (Tokai Univ.), Toshisuke Kawasaki (Ritsumeikan Univ.)

16:05-16:30 Naoyuki Taniguchi (RIKEN)

“The role of “glycan cycle” in disease”

16:30-16:55 Shinobu Kitazume (RIKEN)

“Role of α 2,6-sialylation in the endothelial cell functions”

16:55-17:20 Hisashi Narimatsu (AIST)

“Immunological disorder of β 3GnT-2 knockout mouse which lacks polylactosamine”

17:20-18:00 James C. Paulson (The Scripps Res. Inst.)

“Glycoproteomics of cis and trans ligands of CD22”