

October 12 (Wednesday)

9:15-9:30	Photo
Opening Remarks	
9:30-9:40	Iwao Ohmine (Director, Insitute for Molecular Science)
Introductory Talk	
9:40-10:00	Soichi Wakatsuki (High Enegy Accelator Research Oragnization) James C. Paulson (The Scripps Research Institute, USA)
Trends in Molecular Science of Glycoconjugates	
Chair: N. Taniguchi	
10:00-10:35	1. James C. Paulson (The Scripps Research Institute, USA) "Structure aided design of siglec ligands for in vivo targeting of nanoparticles to immune cells"
10:35-11:10	2. Toshisuke Kawasaki (Ritsumeikan University) "Recognition of endogenous ligands by C-Type animal lectins"
11:10-11:45	3. Koichi Kato (Insitute for Molecular Science) "Structural views of functional and pathological roles of sugar chains"
11:45-13:00	Lunch and Poster Viewing
Structural Glycobiology (I)	
Chair: R. Kato	
13:00-13:35	4. Kay-Hooi Khoo (Academia Sinica, Taiwan) "Towards direct glycopeptide sequencing and identification in glycoproteomic applications"
13:35-14:10	5. Kunihiro Gekko (Hiroshima University) "Structural Analysis of Carbohydrates by Synchrotron-Radiation Vacuum-Ultraviolet Circular Dichroism Spectroscopy"
14:10-14:45	6. Katsumi Matsuzaki (Kyoto University) "GM1 CLUSTER MEDIATED-AGGREGATION OF ALZHEIMER'S AMYLOID β -PROTEIN"
14:45-15:05	Coffee
Chemical Glycobiology	
Chair: Y. Yamaguchi	
15:05-15:40	7. Koichi Fukase (Osaka University) "GLYCO-IMAGING FOR GLYCAN DYNAMICS STUDY"
15:40-16:15	8. Mikiko Sodeoka (RIKEN) "Synthesis and Biological Activity of Ganglioside Analogues with CF ₂ -and CH ₂ -Sialoside Linkage"
16:15-16:50	9. Leonard M.G. Chavas (High Enegy Accelator Research Oragnization) "Influenza virus sialidases' targeted drugs: their interaction with human sialidases"
16:50-17:25	10. Mark von Itzstein (Griffith University, Australia) "Exploring new opportunities in influenza virus sialidase inhibitor discovery"
18:00-20:00	Dinner

October 13 (Thursday)

Glycobiology and Glycophysiology

Chair: T. Kawasaki

9:00-9:35	11. Shinji Takada (National Institute for Basic Biology) "Post-translational modification in the secretion and extracellular transport of Wnt proteins"
9:35-10:10	12. Koichi Furukawa (Nagoya University) "FUNCTIONAL ANALYSIS OF GLOBO-SERIES GLYCOLIPIDS USING Gb3/CD77 SYNTHASE KNOCKOUT MICE"
10:10-10:30	Coffee

Chair: K. Furukawa

10:30-11:05	13. Kazuhiro Ikenaka (National Institute for Physiological Sciences) "N-linked sugar chains: Regulation of their synthesis and their physiological significance"
11:05-11:40	14. Shoko Nishihara (Soka University) "MAINTENANCE AND INDUCTION OF NAÏVE STATE EMBRYONIC STEM CELLS REQUIRE LACDINAC CARBOHYDRATE STRUCTURE"
11:40-12:15	15. Naoyuki Taniguchi (RIKEN) "Regulation of brain-specific GnT-IX (Vb) expression by neural histone-code"
12:15-13:25	Lunch and Poster Viewing

Theoretical and Computational Science of Glycoconjugates

Chair: S. Re

13:25-14:00	16. Kiyoko F. Aoki-Kinoshita (Soka University) "Methods and applications of glycome informatics"
14:00-14:35	17. Keiko Takano (Ochanomizu University) "Theoretical studies of the interaction between proteins and glycans using ab initio FMO method"
14:35-14:55	18. Toyokazu Ishida (AIST) "COMPUTATIONAL MODELING OF CARBOHYDRATE RECOGNITION IN SELECTIN COMPLEX"
14:55-15:15	Coffee

Chair: Y. Kamiya

15:15-15:50	19. Fumio Hirata (Institute for Molecular Science) "Exploring life phenomena with a Statistical Mechanics of Molecular Solution"
15:50-16:25	20. Robert J. Woods (University of Georgia, USA) "Computational Carbohydrate Grafting Leads to the Discovery of Novel Glycan-Binding Specificities for an Anti-tumor Antibody"

Short Talk and Poster Presentation

Chair: T. Satoh

16:25-17:25	Short Talk from Poster Presentation
17:25-18:30	Poster Presentation
18:30-20:00	Banquet

October 14 (Friday)

Structural Glycobiology (II)

Chair: K. Kato

9:00-9:35	21. Yoshiki Yamaguchi (RIKEN) " ¹³ C-NMR quantification of proton exchange at LewisX hydroxyl groups in water"
9:35-10:10	22. Daisuke Kohda (Kyushu University) "Comparative Structural Biology of Oligosaccharyltransferases"
10:10-10:30	Coffee
10:30-11:05	23. Thomas Peters (University of Lübeck) "NMR Provides Insights into Virus-Carbohydrate Interactions at Atomic Resolution"
11:05-11:25	24. Soichi Wakatsuki (High Energy Accelerator Research Organization) "Structural glycobiology as part of integrated structural life science"
General Discussion	
11:25-11:50	Soichi Wakatsuki (High Energy Accelerator Research Organization) Koichi Kato (Institute for Molecular Science)
Closing Remarks	
11:50-12:00	Soichi Wakatsuki (High Energy Accelerator Research Organization)