

**International Symposium on Glyco-minded Biology of Diseases
as a Basis of Pharmaceutical Sciences
- Program -**

November 30 (Fri)

13:00 ~ 13:15 Opening remarks

Nobuaki Higashi (Organizing committee chair)
Toshiaki Katada (Dean of Graduate School of Pharmaceutical Sciences, The University of Tokyo)
Ung-il Chung (Program management board member, The University of Tokyo Global COE, CMSI)

13:20 ~ 17:40 **Session 1 Immune Disorders, Immunotherapy**
(Sponsored by SBI Pharmaceuticals Co., Ltd.)

Chairpersons: **Tadashi Kasahara** (Keio University)
Hiroto Kawashima (University of Shizuoka)

13:20 ~ 14:00 **Gabriel A Rabinovich** (National Council Research and University of Buenos Aires, Argentina)
Tolerogenic programs mediated by galectin-glycan interactions in autoimmune neuroinflammation

14:00 ~ 14:40 **Shohei Hori** (RIKEN RCI, Japan)
Control of autoimmunity by Foxp3⁺ regulatory T cells

14:40 ~ 15:20 **Jamey D Marth** (Sanford-Burnham Medical Research Institute, USA)
Glycosylation in the Metabolic Origins of Common Grievous Disease

15:20 ~ 15:40 coffee break

Chairpersons: **Makoto Iwata** (Kagawa School of Pharmaceutical Sciences)
Hiroshi Miyazaki (Kyowa Hakko Kirin Co., Ltd.)

15:40 ~ 16:20 **Olivera J Finn** (University of Pittsburgh, USA)
Oncogenic, inflammatory and immunologic consequences of abnormal expression of the glycoprotein antigen MUC1

16:20 ~ 17:00 **Hideaki Tahara** (The University of Tokyo, Japan)
Modification of homeostatic cell disposal systems to achieve *in situ* cancer vaccination

17:00 ~ 17:40 **Kouji Matsushima** (The University of Tokyo, Japan)
Application of defucosylated humanized anti-CCR4 and CD4 antibodies to cancer immunotherapy

17:50 ~ 18:50 **Poster Session**

17:50 ~ 18:20 **Discussion on posters of odd numbers**

18:20 ~ 18:50 **Discussion on posters of even numbers**

19:00 ~ 20:45 **Banquet**

December 1 (Sat)

9:00 ~ 11:50 **Session 2 Cancer Biology, Functional Glycomics**
(Sponsored by Taiho Pharmaceutical Co., Ltd.)

Chairpersons: **Masahiro Higuchi** (University of Arkansas for Medical Sciences)
Motowo Nakajima (SBI Pharmaceuticals Co., Ltd.)

9:00 ~ 9:40 **Henrik Clausen** (University of Copenhagen, Denmark)
Use of zinc finger nuclease gene targeting for functional glycomics

9:40 ~ 10:20 **James W Dennis** (Mount Sinai Hospital, Canada)
A systems approach to understand protein N-glycosylation

10:20 ~ 10:30 break

10:30 ~ 11:10 **Motoharu Seiki** (The University of Tokyo, Japan)
MT1-MMP is a multidimensional regulator of tumor microenvironment

11:10 ~ 11:50 **Hisashi Narimatsu** (National Institute of Advanced Industrial Science and Technology, Japan)
Collaborative works with Prof. Irimura for cancer glyco-biomarker

11:50 ~ 13:20 lunch

13:20 ~ 16:20 **Session 3 Infectious Diseases, Dystroglycanopathies**

Chairpersons: **Toru Imamura** (National Institute of Advanced Industrial Science and Technology)
Kazuo Yamamoto (The University of Tokyo)

13:20 ~ 14:00 **Nicolai Bovin** (Institute of Bioorganic Chemistry, Russian Academy of Sciences, Russia)
Pharmaceutical prospects of anti-glycan natural antibodies

14:00 ~ 14:40 **Hideki Hasegawa** (National Institute of Infectious Diseases, Japan)
Development of mucosal vaccine for Influenza

14:40 ~ 15:00 coffee break

15:00 ~ 15:40 **Minoru Fukuda** (Sanford-Burnham Medical Research Institute, USA)
Fer tyrosine kinase facilitates breast and prostate cancer malignancy by downregulation of α -dystroglycan glycosylation

15:40 ~ 16:20 **Tamao Endo** (Tokyo Metropolitan Institute of Gerontology, Japan)
Defective glycosylation in congenital muscular dystrophies: From glycobiology to alpha-dystroglycanopathies

16:20 ~ 16:25 break

16:25 ~ 17:25 **Special Lecture**

Chairperson: **Tsutomu Tsuji** (Hoshi University)

16:25 ~ 17:25 **Tatsuro Irimura** (The University of Tokyo, Japan)
Glyco-minded biology of diseases as a basis of pharmaceutical sciences

17:25 ~ 17:30 Closing remark
