

2017 Bilateral Symposium
Genomics Research Center, Academia Sinica
and
School of Science, Osaka University

October 12th (Thursday), 2017

14:20 – 14:30 Opening Remark: Shang-Cheng Hung

***Session 1* Chair: Chung-Yi Wu**

14:30 – 15:00 Chi-Huey Wong
Recent understanding of disease-associated biological glycosylation

15:00 – 15:30 Koichi Fukase
Reconstruction and perturbation of glycan environments for glycofunctional analysis

15:30 – 15:45 Yu-Chao Huang
Chemical synthesis of UDP- α -D-galactofuranose

15:45 – 16:00 Kenta Arai
Spatial-temporal analysis by BODIPY-labeled lactose ceramide

16:00 – 16:15 *Coffee Break*

***Session 2* Chair: Su-Chang Lin**

16:15 – 16:45 Yasuhiro Kajihara
Studies for prebiotic peptide formation in aqueous phase

16:45 – 17:15 Wei-Chieh Cheng
Synthesis and functional study of bacterial peptidoglycan components and derivatives

17:15 – 17:30 Atsushi Shimoyama
Synthesis and function of bacterial glycoconjugates for regulation of immune System

17:30 – 17:45 Chin-Wei Lin
The modulation of Fc glycan on the function of immunoglobulin G

17:45 – 18:00 Ryo Orii
A new chemical synthetic method of antifreeze glycoproteins having GalNAc for the functional analysis

October 13th (Friday), 2017

Session 3

Chair: Yi-Sheng Wang

09:30 – 10:00

Toshifumi Takao
What can MS do for proteins?

10:00 – 10:30

Chung-Hsuan (Winston) Chen
Innovative biomedical technology development and its applications

10:30 – 10:45

Yu-Meng Ou
Development of ultrahigh mass resolution linear time-of-flight mass spectrometry based on comprehensive calculation

10:45 – 11:00

Coffee Break

Session 4

Chair: Shie-Liang Hsieh

11:00 – 11:30

Takashi Hayashi
An artificial metalloenzyme containing of a protein matrix and synthetic cofactor

11:30 – 12:00

Kazuya Kikuchi
Development of multicolor fluorogenic probes for elucidating role of GLUT4 N-glycan in intracellular trafficking

12:00 – 12:15

Yuta Omori
Intravital imaging of osteoclast activity with pH-activatable red fluorescent probe

12:15 – 14:00

Lunch Meeting

Session 5

Chair: Che Alex Ma

14:00 – 14:30

Shinya Hanashima
Interaction studies of membrane glycolipids using solid state NMR and X-ray crystallography

14:30 – 15:00

An-Suei Yang
Antibody therapeutics/diagnostics and technological platforms

15:00 – 15:15

Jung-Lin Wu
O-linked N-acetylglucosaminyl transferase (Ogt) is required for activation and apoptosis of mature B cells and antibody response

15:15 – 15:30

Coffee Break

Session 6

Chair: Kuo-I Lin

15:30 – 16:00

Tsung-Lin Li
Biosynthesis of streptothricin: streptolidine, activation, resistance and development

16:00 – 16:30

Wendy Hwang-Verslues
Tumor microenvironment drives breast tumorigenesis via PER2 suppression

16:30 – 16:45

Shang-Lin Chang
Genome evolution after essential gene loss

16:45 – 16:50

Closing Remark: Shang-Cheng Hung