

理研国際シンポジウムのご案内

理化学研究所システム糖鎖生物学研究グループは 10 年間の研究業務を終え、2018 年 3 月に終了します。本グループはこの間、多くの国際的な研究業績をあげ、また、数々の国際交流においても貢献してまいりました。

本研究グループの終了に際し、下記の国際シンポジウムを開催いたします。本シンポジウムでは、グループの研究に携わった研究者および共同研究者、海外の先進的な研究者をお招きし、システム糖鎖生物学研究とその社会貢献、展望などについて様々な角度から討議、考察いたします。

システム糖鎖生物学と展望

—基礎研究と応用研究の橋渡しをめざして—

Systems Glycobiology and Beyond

—Toward :a bridge between fundamental research and applied science

日程 : 2017 年 11 月 16 日 (木) 13:30 ~17 日 (金) 17:40

場所 : 理化学研究所 鈴木梅太郎記念ホール

主催 : 理化学研究所システム糖鎖生物学研究グループ

後援 : 日本糖質学会、日本生化学会、日本糖鎖科学コンソーシアム
水谷糖質科学振興財団

公用語 : 英語

参加者数 : 150 名 (定員)、公開シンポジウム

参加費 : 無料

参加方法 : ウェブサイトから申込

(<http://www.jcgg.jp/05/symposium171116.html>)

Program

November 16 (Thu)

13:30

Opening remarks Kohei Tamao (RIKEN)

13:40-15:20

Session 1: Glycoscience and Metabolic Significance

Chairs, Tamao Endo (TMGH-IG) and Michael Pierce (Univ Georgia)

Michael Pierce (Univ Georgia)

“Glycoscience impacts cancer research and treatment on multiple levels“

Yoichiro Harada (Kagoshima Univ)

“N-Glycosylation meets exosome biology”

Yoshio Hirabayashi (RIKEN)

“Lipid glucosylation in the ER as essential system for cellular homeostasis”

François Foulquier (Univ Lille 1)

“Insights into the regulation of the N-glycosylation process“

15:40-17:40

Session 2: Recent Advances in Systems Glycobiology (Group Research Summary)

Chairs, Yukishige Ito (RIKEN) and Nicolle Packer (Macquarie Univ)

Naoyuki Taniguchi (RIKEN)

“Systems glycobiology in disease and N-glycan branching “

Shinobu Kitazume (RIKEN)

“Vascular endothelial APP: beyond amyloid beta deposition “

Yasuhiko Kizuka (RIKEN)

“Detection and disease involvement of bisecting GlcNAc and fucosylated glycans”

Tadashi Suzuki (RIKEN)

“NGLY1 and non-lysosomal catabolism of glycans - Summary of Glycometabolome Team”

Yoshiki Yamaguchi (RIKEN)

“Structural Glycobiology: Glycan Structure, Dynamics and Interaction”

18:30-20:30 Get together discussion

November 17 (Fri)

9:00-10:40

Session 3: Glycoscience in Disease

Chairs, Shoko Nishihara (Soka Univ) and Hamed Jafar-Nejad (Baylor Coll Med)

Rita Gerardy-Schahn (MH-Hannover)

“Mechanisms Causing Embryonic Lethality of CMP-Sialic Acid Knockout Mivery “

Eiji Miyoshi (Osaka Univ)

“Application of glyco-science to the early detection and preemptive management of pancreatic cancer”

Jianguo Gu (Tohoku Med Pharm Univ)

“Functional expression of N-glycans in cell adhesion and EMT”

Hamed Jafar-Nejad (Baylor Coll Med)

“Regulation of Drosophila development by N-glycanase I”

11:10-12:30

Session 4: Protein and Glycan Interaction

Chairs, Akemi Suzuki (Tohoku Med Pharm Univ) and James Paulson (Scripps Res Inst)

Nicolle Packer (Macquarie Univ)

“Multipurpose sugars: exploiting glycan structural diversity”

Takashi Angata (Academia Sinica)

“Identification of Siglec ligands by proximity labeling method”

Koichi Honke (Kochi Univ)

“Identification of the sialyl Lewis X antigen carrying glycoprotein that is involved in human lung adenocarcinoma cells “

12:30-14:00 Poster Session

14:00-15:10

Kazuaki Ohtsubo (Kumamoto Univ)

“Glycosylation regulates nutrition sensor functions in pancreatic beta cells”

Miyako Nakano (Hiroshima Univ)

“Glycomic Approach for Biomarker Discovery”

James Paulson (Scripps Res Inst)

“Siglec targeted nanoparticles for desensitization of mast cells “

15:30-17:30

Session5: Expectations for Glycoscience and Road Ahead

Chairs, Ken Kitajima (Nagoya Univ) and Gerald Hart (Johns Hopkins Med)

Kenji Kadomatsu (Nagoya Univ)

“Proteoglycans and neural plasticity “

Katsunori Tanaka (RIKEN)

“Therapeutic In vivo Synthetic Chemistry: Glycoconjugates as new drug delivery system”

Shinya Hanashima (Osaka Univ)

“Lipid-protein interaction study using heavy atom labeled glycosphingolipid derivatives“

Hiroyuki Osada (RIKEN)

“Chemical array screening, a powerful approach for exploring small molecule inhibitors against proteins”

Gerald Hart (Johns Hopkins Med)

“Fundamental Roles of O-GlcNAc in Signaling, Transcription and in Neuronal Functions: Vast Opportunities for Future Discovery”

17:30

Closing remarks **Naoyuki Taniguchi** (RIKEN)
