

Scientific program for the 7th ACGG conference

■ November 12, 2015

12:00	-	17:30	Registration
17:00	-	17:45	Steering committee meeting
18:00	-	21:00	Welcome dinner and two-minute oral presentations by poster presenters

■ November 13, 2015

08:00	-	08:15	Opening remarks: Jin-ichi Inokuchi (Chair, Organizing committee)
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Session 1: Glycoscience I

Chair: Jin-ichi Inokuchi and Kazuhisa Iwabuchi

08:15	-	08:40	S1-1: Hisashi Narimatsu (Japan) Latest Developments of GlyTouCan
08:41	-	09:06	S1-2: Kah Fai Chan (Singapore) Inactivation of GDP-fucose transporter (SLC35C1) gene in CHO cells by ZFNs, TALENs and CRISPR/Cas9 for producing fucose-free antibodies
09:07	-	09:32	S1-3: Ryan Haryadi (Singapore) CHO glycosylation mutants as potential hosts for producing recombinant therapeutics with enhanced efficacy
09:33	-	09:48	S1-4: Kazuhisa Iwabuchi (Japan) Role of Lactosylceramide-enriched lipid microdomains in innate immune response of human phagocytes
09:48	-	10:03	Tea break
10:03	-	10:18	S1-5: Youngsuk Seo (Korea) Glycosylation of Therapeutic Glycoprotein depends on Host Cell Lines
10:19	-	10:34	S1-6: I-Ming Lee (Taiwan) Structural basis for recognition and depolymerization of Acinetobacter baumannii surface polysaccharide by the bacteriophage ΦAB6 tailspike protein: Implication for glycoconjugate vaccine
10:35	-	10:50	S1-7: Shoko Nishihara (Japan) Drosophila core 1 β1,3-galactosyltransferase mutants cannot maintain hematopoietic stem cells
10:51	-	11:06	S1-8: Tzu-Ching Meng (Taiwan) Interplay between glycosylation and phosphorylation of receptor-like protein tyrosine phosphatase RA (PTPRA)
11:07	-	11:22	S1-9: Kiyohiko Angata (Japan) Novel LacdiNAc structures on N- and O-glycans synthesized in vivo by β3GalNAcT2
11:30	-	12:30	Lunch

Session 2: Glycoscience II

Chair: B. M. Swamy and Kyung-Hee Chun

13:00	-	13:25	S2-1: B. M. Swamy (India) Exploiting the carbohydrate specificity of a monocot mannose binding lectin from Remusatia vivipara for developing pest resistant transgenic plants
13:26	-	13:51	S2-2: Yuh-Ling Chen (Taiwan) Galectin-1 accelerates wound repair through binding of neuropilin-1
13:52	-	14:17	S2-3: Kyung-Hee Chun (Korea) Role of galectin-3 in gastric cancer progression and metastasis
14:18	-	14:33	S2-4: Shashikala R. Inamdar (India) A core fucosylated N-glycan specific mitogenic lectin from cephalosporium curvulum and its role in mediating host parasite interaction leading to mycotic keratitis.
14:34	-	14:49	S2-5: Josef Voglmeir (China) Oligomerization of Microcystis aeruginosa lectin (MVN) for mimicing C-type lectin structures
14:49	-	15:04	Tea break

Session 3: Glycotechnology I

Chair: Haojie Lu and Hiroyuki Kaji

15:04	-	15:29	S3-1: Po-Chiao Lin (Taiwan) Chemical Strategies for Traceless Labeling of Glycoproteins
15:30	-	15:55	S3-2: Hyun Joo An (Korea) Analytical Platform for Glycomic Characterization of Biotherapeutic Glycoproteins: From Glycan Analysis to Site-Specific Glycoform mapping
15:56	-	16:11	S3-3: Unyong Kim (Korea) Novel Approach for Comprehensive O-Glycosylation Profiling of Therapeutic Glycoproteins
16:12	-	16:27	S3-4: Shifang Ren (China) Glycomic Profiling of ovarian cancer stem cells

16:30 - 18:00 **Poster session
and
ACGG – Database demonstration**

18:00 - 20:00 **Dinner**

19:00 - 21:00 **Excursion: Entsuin-temple light up**

■November 14, 2015

Session 4: Glycoscience III

Chair: Chuan-Fa Chang and Kan Ding

08:00	-	08:25	S4-1: Chuan-Fa Chang (Taiwan) Glycobiology of Enterovirus 71 interacting proteins and infection
08:26	-	08:51	S4-2: Kan Ding (China) The structure and function of glycans from herbal medicine
08:52	-	09:07	S4-3: Tadashi Suzuki (Japan) Story of Ngly1: Beauty of Basic Research
09:08	-	09:23	S4-4: Kei-ichiro Inamori (Japan) Ablation of the GM3 synthase gene in KK-Ay mice improved the obese phenotype: implication for its role in leptin and melanocortin signaling
09:24	-	09:39	S4-5: Yasuhiro Hashimoto (Japan) Subgroup differences in "brain-type" transferrin and a-synuclein in Parkinson's disease and multiple system atrophy
09:40	-	09:55	S4-6: Kazuyuki Sugahara (Japan) Genetic Diseases Caused by Mutations of Biosynthetic Enzymes for The GAG-Protein Linkage Region of Proteoglycans
09:56	-	10:11	S4-7: Fuchuan Li (China) Marine bacterium-derived glycosaminoglycan-degrading enzymes
10:11	-	10:26	Tea break

Session 5: Glycotechnology II

Chair: Shin-ichiro Shoda and Hai Dong

10:26	-	10:51	S5-1: Hiroshi Tanaka (Japan) Development of new methodology for a-sialylation and Synthesis of glycopolymers from sialylated allene monomers.
10:52	-	11:17	S5-2: Hai Dong (China) Transesterification Controlled by H-bonding and Its Application on The Synthesis of Thio-containing Glycosides
11:18	-	11:43	S5-3: Cheng-Chung Wang (Taiwan) Concise synthesis of glycoconjugates via TMSOTf-catalyzed HMDS silylation of sugars
11:44	-	12:09	S5-4: Perali Ramu Sridhar (India) Synthesis of Septano Oligo-saccharides
12:10	-	12:25	S5-5: Shin-ichiro Shoda (Japan) Specifically Hemiacetal-Oriented Direct Activation in Water
12:26	-	12:41	S5-6: Jinsong Yang (China) Total Synthesis of Marine Glycosphingolipid Vesparioside B
12:45	-	13:45	Lunch

Session 6: Glycotechnology III

Chair: Shinya Fushinobu and Petety Balaji

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| 13:45 | - | 14:10 | S6-1: Haojie Lu (China)
Advancements in MS-based N-glycoproteomics and N-glycomics: Towards more specific, more accurate and more sensitive |
| 14:11 | - | 14:36 | S6-2: Hiroyuki Kaji (Japan)
LC/MS-based large-scale analysis of site-specific glycan heterogeneity of mouse glycoproteins |
| 14:37 | - | 14:52 | S6-3: Wen-Bin Yang (Taiwan)
Tagging N-linked glycan with 2,3-naphthalenediamine dye for glycoproteins analysis |

Chair: Po-Chiao Lin and Hyun Joo An

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| 14:53 | - | 15:18 | S6-4: Shinya Fushinobu (Japan)
Structural study of enzymes from beneficial gut bacteria for degradation of human glycans |
| 15:19 | - | 15:44 | S6-5: Petety Balaji (India)
Protein – carbohydrate interactions: the contribution of C-H...pi interactions to binding and specificity |
| 15:45 | - | 16:00 | S6-6: Yi-Chi-Chen (Taiwan)
Metabolic labeling of cholesteryl glucoside derivatives in Helicobacter pylori |
| 16:00 | - | 16:15 | Tea break |

Session 7: Glycoscience IV

Chair: Jin Won Cho and Xiao-Dong Gao

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| 16:15 | - | 16:40 | S7-1: Jin Won Cho (Korea)
Elucidation of nuclear translocation of O-GlcNAc transferase |
| 16:41 | - | 17:06 | S7-2: Atit Silsirivanit (Thailand)
Dynamic changes of O-GlcNAcylation in Glioma stem cells |
| 17:07 | - | 17:32 | S7-3: Voraratt Champattanachai (Thailand)
Aberrant O-GlcNAcylation of extracellular proteins from cancer cell secretion |
| 17:33 | - | 17:58 | S7-4: Xiao-Dong Gao (China)
Construct the system of N-acetylglucosamine transferase (OGT) active assay in saccharomyces cerevisiae |
| 17:59 | - | 18:14 | S7-5: Shinji Go (Japan)
Regulation of glycosphingolipid expression by O-GlcNAc modification |
| 18:15 | - | 18:30 | S7-6: Yan Zhang (China)
Whether the tumor suppressor p53 has a novel glycosyl-modification |
| 18:31 | - | 18:46 | S7-7: Yuanyuan Ruan (China)
O-GlcNAcylation of RACK1 promotes hepatocellular carcinogenesis |
| 19:00 | - | 21:00 | Banquet |

■November 15, 2015

Session 8: Glycoscience V

Chair: Jianxin Gu and Sopit Wongkham

08:00	-	08:25	S8-1: Jianguo Gu (Japan) Roles for glycans in cell adhesion and migration
08:26	-	08:51	S8-2: Sopit Wongkham (Thailand) Alteration of glycosylation related to progression of cholangiocarcinoma
08:52	-	09:07	S8-3: Jishun Lu (Japan) The interplay of N-acetylglucosaminyltransferase III and sialyltransferases in the regulation of cell motility
09:08	-	09:23	S8-4: Kohta Takahashi (Japan) Sialidase NEU3 defines invasive potential of human glioblastoma cells by regulating calpain-mediated proteolysis of focal adhesion proteins
09:24	-	09:39	S8-5: Lan Wang (Taiwan) Role of CLEC-2 In gastric cancer metastasis
09:40	-	09:55	S8-6: Shan-Shan Li (Hong Kong) Communicating via glycan: a new view to ovarian cancer metastasis
09:55	-	10:10	Tea break

Session 9: Glycotechnology VI

Chair: Hongzhi Cao and Hideharu Ishida

10:10	-	10:35	S9-1: Hongzhi Cao (China) Chemical evolution of enzyme-catalyzed glycosylation
10:36	-	10:51	S9-2: Wei Li (China) Synthesis of Bradyrhizose, a Unique Inositol-fused Monosaccharide Relevant to a Nod-factor Independent Nitrogen Fixation
10:52	-	11:07	S9-3: Yasunori Chiba (Japan) Production of IgG Fc region with homogeneous glycan by glycosynthase
11:08	-	11:23	S9-4: Hideharu Ishida (Japan) Synthesis of the Lewis A tandem repeat for elucidating the recognition mechanism of MBP
11:24	-	11:39	S9-5: Yuxin Pei (China) Glyco-vesicles with Cationic Ferrocenium: The Glycosylation-mediated Targeted and Redox-responsive Carriers for Drug/siRNA Co-delivery
11:40	-	11:55	S9-6: Yoshiko Miura (Japan) Biosensing with Glycopolymer-Gold Conjugates
11:56	-	12:11	S9-7: John Whitelock (Australia) Engineered Heparan Sulfates as Growth Factor and Cytokine Delivery Systems for Regenerative Medicine
12:15	-	12:45	Poster Award Closing
12:45	-	15:30	The memorial tour for the Great East Japan Earthquake