

Program of Bio-CHAIN symposium in Gifu

| Day 1 (June 3rd) | | | |
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| 12:00 ~ | | Registration desk open | |
| Opening Remarks | 13:00 | | Hideharu Ishida (Gifu University, Japan) Director of G-CHAIN |
| Welcome address | 13:05 | | Hisataka Moriwaki (Gifu University, Japan) President of Gifu University |
| Session 1 <i>“Membrane Biology”</i> | 13:10 ~ 14:00 (50 min) | Chair: Akihiro Kusumi | Plenary Lecture-1 |
| | | | Kai Simons (MaxPlanck Institute, Germany) <i>“From Lipid Rafts to Lipidomics”</i> |
| | 14:00 ~ 14:25 (25 min) | Chair: Kenichi Suzuki | Invited Lecture-1 |
| | | | Koichi Furukawa (Chubu University, Japan) <i>“Regulation of Cell Signals by Glyco-sphingolipids via Cluster Formation on the Cell Surface”</i> |
| | 14:25 ~ 14:50 (25 min) | | Invited Lecture-2 |
| | | | Akihiro Kusumi (OIST, Japan) <i>“Signal Transduction Enabled by Rapidly-Exchanging Molecules’ Complexes: Findings by Single-molecule Tracking”</i> |
| (30 min) | Group photo & coffee break | | |
| Session 2 <i>“Glyco-science-1”</i> | 15: 20 ~ 15:45 (25 min) | Chair: Koichi Furukawa | Invited Lecture-3 |
| | | | Naoyuki Taniguchi (Osaka International Cancer Institute, Japan) <i>“Branching N-Glycans and Implication for Cancer, COPD and Alzheimer's Disease”</i> |
| | 15:45 ~ 16:10 (25 min) | | Invited Lecture-4 |
| | | | Kenji Kadomatsu (Nagoya University, Japan) <i>“Chondroitin Sulfate as a Ligand Glycan that Disrupts Autophagy Flux at Axon Tips”</i> |
| | 16:10 ~ 16:35 (25 min) | Invited Lecture-5 | |
| | | Koichi Kato (ExCELLS, Japan) <i>“Determinants for Glycoprotein Fates in Cells”</i> | |
| 16:35 ~ 17:25 (50 min) | Chair: Naoyuki Taniguchi | Plenary Lecture-2 | |
| | | Robert Haltiwanger (University of Georgia, USA) <i>“Regulating Notch Signaling with Glycosylation”</i> | |
| 18:00 ~ | Get-together party | | |

Day 2 (June 4th)

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| Session 3 “ <i>Infection & Immunology</i> ” | 9:00 ~ 9:25 (25 min) | Chair: Yasuhiro Takashima | Invited Lecture-6 |
| | 9:25 ~ 9:50 (25 min) | | Takashi Fujita (Kyoto University, Japan) <i>"Induction of Antiviral Immunity by double-stranded RNA Derived from Edible Plants"</i> |
| | 9:50 ~ 10:15 (25min) | | Hirotaka Kanuka (Jikei University, Japan) <i>"Boosting New Arms to Tackle Pathogen-vector Mosquitoes"</i> |
| | (15min) | Coffee break | |
| Session 4 “ <i>Neuro-science</i> ” | 10:30 ~ 10:55 (25 min) | Co-Chair: Yoichi Maekawa, Yasutake Shimizu | Invited Lecture-9 |
| | 10:55 ~ 11:20 (25 min) | | Yasutake Shimizu (Gifu University, Japan) <i>"Regulation of Gut Motility by the Central Nervous System"</i> |
| | 11:20 ~ 11:45 (25 min) | | Takeshi Sakaba (Doshisha University, Japan) <i>"Mechanisms of Synaptic Transmission and Plasticity at Mammalian Central Synapses"</i> |
| | 11:45 ~ 12:10 (25 min) | | Chikara Abe (Gifu University, Japan) <i>"CI Neurons Mediate a Stress-induced Protection of Acute Kidney Injury"</i> |
| | (80 min) | Lunch on your own | |
| Session 5 “ <i>Glyco-science-2</i> ” | 13:30 ~ 14:20 (50 min) | Chair: Hideharu Ishida | Plenary Lecture-3 Srinivas Hotha (IISER, India) <i>"Syntheses of Mycobacterial Glycans by Gold-catalyzed Methods"</i> |

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| | 14:20 ~ 14:45 (25 min) | Chair: Koichi Fukase | Invited Lecture-13 |
| | | | Tadashi Suzuki (RIKEN, Japan) <i>"Toward Curing NGLY1 deficiency"</i> |
| | 14:45 ~ 15:10 (25 min) | | Invited Lecture-14 |
| | | | Kazunari Akiyoshi (Kyoto University, Japan) <i>"Exosome Engineering and Glyco Engineering"</i> |
| | 15:10 ~ 15:35 (25min) | | Invited Lecture-15 |
| | | | Yukishige Ito (RIKEN, Japan) <i>"Chemical Synthesis and Functions of ER Derived Glycans"</i> |
| | (15min) | Coffee break | |
| Session 6 "G-CHAIN & CREST" | 15:50 ~ 16:10 (20 min) | Chair: Kazunari Akiyoshi | Presentation from G-CHAIN |
| | | | Kenichi Suzuki (Gifu University, Japan) <i>"Single-Molecule Imaging Study of Dynamics of Rafts and Exosomes"</i> |
| | 16:10 ~ 16:30 (20 min) | | Presentation from G-CHAIN |
| | | | Yasuhiko Kizuka (Gifu University, Japan) <i>"Biosynthetic Regulation of Complex N-Glycan Structures"</i> |
| | 16:30 ~ 16:50 (20 min) | Chair: Yukishige Ito | Invited Lecture-16 |
| | | | Shinya Hanashima (Osaka University, Japan) <i>"Sphingolipid Structures and Domains in Bilayer Model Membranes"</i> |
| 16:50 ~ 17:10 (20 min) | | Presentation from G-CHAIN | |
| | | Hiromune Ando (Gifu University, Japan) <i>"A Robust Method for Stereoselective Sialylation to Accelerate the Chemical Biology of Glycoconjugates"</i> | |
| Closing Remarks | 17:10 | | Hideharu Ishida (Gifu University, Japan) |