

14th Symposium of Japan Consortium for Glycobiology and Glycotechnology

Transforming Glycoscience: A bridge toward future perspective and their social contribution

November 1 (Tue) – 2 (Wed)
sola city Conference Center

http://solacity.jp/cc/common/pdf/access_visitor.pdf

November 1 (Tue)

Challenge to application of glycotechnology to drug discovery and regenerative medicine

- Keynote Speech
Makoto Suematsu (AMED) : AMED starts with IRUD: A hope to save undiagnosed patients through glycomics research
 - Special Lecture 1
Nico Callewaert (Ghent Univ.) : Exploiting protein *N*-glycosylation pathways for biopharmaceutical purposes
 - Session 1 : Progress reports from the core national institutes, RIKEN and AIST
Tadashi Suzuki (RIKEN) : Toward curing *NGLY1*-deficiency
Yoshiki Yamaguchi, Katsunori Tanaka (RIKEN) : Structural basis of *in vivo* glycan recognition and its application to next-generation theranostics
Hiroyuki Kaji (AIST) : Current Glycoproteomics: Development of a method for large-scale identification of glycosylation site-specific glycan heterogeneity.
Hiroaki Tateno (AIST) : Development of lectin application technologies toward industrialization of regenerative medicine
 - Session 2 : Glycoscience-related AMED project and translational research
Takeshi Omasa (Osaka Univ.) : Future perspective for next-generation biologics production
 - Yamakawa Award Lecture :
Markus Aeby (ETH) : The making of *N*-glycoproteins
 - Industry-academia cooperation seminar
Norimasa Iwasaki (Hokkaido Univ.) : Glycobiological Approaches for Elucidation of Joint Disease Pathogenesis
 - Luncheon Seminar
Atsuhiko Toyama (Shimadzu Co.) : Quantitation and qualification of glycans and glycopeptides using high-sensitivity triple quadrupole mass spectrometer: the Erexim Application Suite.
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November 2 (Wed)

Transforming glycoscience: interdisciplinary fusion and regional revitalization

- Special Program :
Takao Kuramochi (CRDS) : Science and Technology Policy in the great transforming era
Kenji Kadomatsu (Nagoya Univ.) : Master Plan of Glycoscience Research in Japan
- Special lecture 2
Hiroshi Kiyono (Tokyo Univ.) : Regulation of Epithelial Glycosylation by Mucosal Immunity and Gut Microbiota
- Special lecture 3
John Magnani (GlycoMimetics) : The design, evaluation and clinical development of novel glycomimetic drugs for inflammatory disease and cancer.
- Session 3 : Power of polysaccharides in material sciences
Kazukiyo Kobayashi (Nagoya Univ.) : Promotion of the forum "Great Future of Polysaccharides"
Kozo Ito (Tokyo Univ.) : Molecular and Materials Design Strategy of Tough Polymers Using Cyclodextrins
Akira Isogai (Tokyo Univ.) : Preparation and structures of new cellulose nanofibers, and their applications

○**Session 4: Food glycoscience in association to regional revitalization**

Yoji Kato (Hiroasaki Univ.) : **Aomori carbohydrate research society and proteoglycan from salmon nasal cartilage**

Takashi Kuriki (Glico Co) : **Venture into new business by carbohydrate bioengineering**

Masaaki Tokuda (Kagawa Univ.) : **Industry-academia-government collaboration for rare sugar innovation**

○**Industry-academia cooperation seminar**

Yukishige Ito (RIKEN) • **Shinya Hagiwara** (Nagoya Univ.) • **Ichiro Matsuo** (Gunma Univ.) : **Flexible thinking for future innovation; in and out of glycoscience**

○**Luncheon Seminar**

Junichi Furukawa (Hokkaido Univ.) : **Total cellular glycomics as unique cellular descriptors**
