1st International Conference on the Glycobiology of Nervous System.
From the Genome Research Era to the Glycome

September 2nd – 5th, 2017,
Korea University, Seoul, Korea

under the sponsorship of the International Society for Neurochemistry
(applied for)
jointly organized with Korea University College of Medicine BK21+ Graduate Program, and
the Asian Pacific Society for Neurochemistry

Chair:
Sandro Sonnino, University of Milano, Italy
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International Program Committee:
1) Ying Shing Chan,
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9) Woong Sun, Korea University Medical School, Seoul, Korea
10) Naoyuki Taniguchi, RIKEN, Wako, Japan
11) Kenji Uchimura, Nagoya University, Nagoya, Japan
12) Akio Wanaka, Nara Medical University, Nara, Japan
13) Bing Wang, Charles Sturt University, Wagga Wagga, Australia

Venue:
Korea University Seoul Campus, Seoul, South Korea
HQ Hotel: Holiday Inn Seoul Seongbuk

PRELIMINARY LIST OF INVITED SPEAKERS

all of the invited speakers listed below have confirmed their participation
Speakers are listed in alphabetical order.

1) ST8 α-N-acetyl-neuraminide α-2,8-sialyltransferase 3 (ST8SIA3) functions as a signal
   coordinator in the striatum
   Yijuang Chern bmychern@ibms.sinica.edu.tw
   Academia Sinica, Institute of Biomedical Sciences, Taipei, Taiwan.

2) The neurotrophic properties of GM1 ganglioside: a new study.
   Elena Chiricozzi elena.chiricozzi@unimi.it
   University of Milan, Milano, Italy

3) Neural N-glycans in Alzheimer's and other diseases
   Domenico Garozzo domenico.garozzo@cnr.it
   CNR, Catania, Italy

4) The nutrient sensor, O-GlcNAc, regulates appetite and synapse maturation in hypothalamic
   neurons
   Gerald W. Hart gwhart13@me.com
   Johns Hopkins University, School of Medicine, Baltimore, MD, USA

5) Glia-Neuron interaction based upon novel glycolipid in lipid rafts
   Yoshio Hirabayashi hirabaya@riken.jp
   RIKEN Brain Science Institute, Wako, Saitama, Japan
6) The GM3 synthase deficiency in human and mice
Jin-ichi Inokuchi jin@tohoku-mpu.ac.jp
Tohoku Medical and Pharmaceutical University, Institute of Molecular Biomembranes and Glycobiology, Japan

7) Neuropathogenesis of murine disease model with combined deficiencies of lysosomal cathepsin A (Ctsa) and neuraminidase-1 (Neu1) and therapeutic approach.
Kohji Itoh kitoh@tokushima-u.ac.jp
Tokushima University, Institute for Medicinal Research, Japan

8) Properties and functions of anti-glycosphingolipid antibodies are highly depend on the organization of glycosphingolipid-enriched domains.
Kazuhisa Iwabuchi iwabuchi@juntendo.ac.jp
Juntendo University, Tokyo, Japan

9) Glycosaminoglycans in axon regeneration and neural plasticity.
Kenji Kadomatsu kkadoma@med.nagoya-u.ac.jp
Nagoya University, Japan

10) Glypican regulates synaptic plasticity at the Drosophila neuromuscular junction
Keisuke Kamimura kamimura-ks@igakuken.or.jp
Tokyo Metropolitan Institute of Medical Science, Japan

11) Dissecting the sulfated glycotopes of mouse brain via advanced mass spectrometry-based glycomics.
Kay-Hooi Khoo kkhoo@gate.sinica.edu.tw
Academia Sinica, Institute of Biological Chemistry, Taipei, Taiwan

12) How glycosylation affects amyloid beta production
Shinobu Kitazume shinobuk@riken.jp
RIKEN, Systems Glycobiology Research Group, Wako, Saitama, Japan

13) New Thinking about Parkinson’s Disease: GM1 Deficiency as Cause; GM1 Analogs as Cure
Robert Ledeen ledeenro@njms.rutgers.edu
Rutgers-The State University of New Jersey, New Jersey Medical School, Newark, NJ, USA.

14) Cerebellar accumulation of GM2 and regional variation of glycosphingolipid expression in a variant B1 Tay-Sachs brain
Yu-Teh Li, yli1@tulane.edu
Tulane University, New Orleans, La, USA

15) Diverse Mechanism of Glycosaminoglycans Mediated α-synuclein Fibrillation.
Surabhi Mehra surabhimehra@iitb.ac.in
IIT Bombay, Mumbai, India

16) Glycosaminoglycans in protein aggregation diseases
Kazuchika Nishitsuji  nishitsuji@tokushima-u.ac.jp
Tokushima University, School of Medicine, Japan

17) Lipid-driven membrane organization and signaling in myelin repair
Alessandro Prinetti  alessandro.prinetti@unimi.it
University of Milan, Milano, Italy

18) Roles of neuraminidases in CNS function
Alexey V. Pshezhetsky,  alexei.pchejetski@umontreal.ca
University of Montreal, Montreal, Canada

19) Neoglycosylated collagen for neuronal regeneration
Laura Russo  laura.russo@unimib.it
University of Milano-Bicocca, Milano, Italy

20) Attractive field of polySia synthesized by polysialyltransfereases, ST8SIA2 and ST8SIA4
Chihiro Sato  chi@agr.nagoya-u.ac.jp
Nagoya University, Japan

21) Glycan modification of BACE1 regulates its localization and accelerates Alzheimer's disease
Naoyuki Taniguchi  tani52@wd5.so-net.ne.jp
RIKEN, Wako, Japan

22) Sulfated glycoconjugates that control immune cell functions in the brain
Kenji Uchimura  arumihcu@med.nagoya-u.ac.jp
Nagoya University Graduate School of Medicine, Japan

23) Role of sialic acid glycans and sialylated glycoprotein lactoferrin as key molecular players in enhancing neurodevelopment and cognition in piglets
Bing Wang  biwang@csu.edu.au
Charles Sturt University, Locked Bag, Australia

24) The characterization of the laminin-binding glycans on alpha-dystroglycan catalyzed by several causative gene products of dystroglycanopathy.
Hirokazu Yagi  hyagi@phar.nagoya-cu.ac.jp
Nagoya City University, Nagoya, Japan

Robert K. Yu, Yu,  RYU@augusta.edu
Augusta University, Augusta, GA, USA

26) Metabolic Labeling of Polysialic Acids in Rat Primary Neurons
Kyungtae Kang,  kkang@khu.ac.kr
Kyung Hee University, Seoul, Korea
The program will include a special KU/APSN session on "Neurochemical Aspects of Glycobiology and Metabolism", scheduled for the afternoon of September 4th speakers list to be determined).

**PRELIMINARY LIST OF POSTER PRESENTATIONS**

1-Mechanism of neuronal cell death in Tay-Sachs disease iPS model  
*Daisuke Tsuji*, Ryosuke Watanabe, Hiroki Tanaka, Shintaro Michael Uno, Kohji Itoh  
Tokushima University, Japan

2-Impairment of autophagosome -lysosome fusion in lysosomal storage disorders  
*Hiroki Tanaka*, Daisuke Tsuji, Ryosuke Watanabe, Shintaro Michael Uno, Kohji Itoh  
Tokushima University, Japan

3-Tfeb-mediated neuro-protection in Sandhoff disease model mouse brain  
*Shintaro Michael Uno*, Daisuke Tsuji, Ryosuke Watanabe, Hiroki Tanaka, Andrea Ballabio, Kohji Itoh  
Tokushima University, Japan

4-Expression and characterization of human neuraminidase 4 (NEU4) in culture systems.  
*Jun Tsukimoto*, Kohji Itoh  
Tokushima University, Japan

5-Roles of ganglioside expression in neural stem cells and neuronal differentiation  
*Yutaka Itokazu*  
Augusta University, Augusta, GA , USA

Professor Sandro Sonnino,  
March 28th, 2017