ISN satellite symposium
on
“Key molecules for neuronal maturation”
-Application for validating the maturation of human iPSC-derived neurons-

23 September, 2014 in Yayoi Auditorium, The University of Tokyo.
President of the Conference: Dr. Yuko Sekino

Opening Remarks (13:00~13:10)  Yuko Sekino  (NIHS, Japan)
Requirement for surrogate markers of neuronal maturation.

Session 1: Maturation of protein signaling in neurons and glial cells
Chair: Yuta Ishizuka (Gunma University, Japan)
13:10~13:30  Christian Gonzalez  (University of Chile, Chile)
MAP1B regulates pre- and post-synaptic events during neurotransmission.

13:30~13:50  Peter Penzes  (Northwestern University, USA)
Nanoscale regulation of synapse structure and function by psychiatric risk molecules

13:50~14:10  Irina Majoul  (Ruebeck University, Germany)
Molecules controlling the rearrangement of cell-cell contact interface.

14:10~14:25  Nobuyuki Takei  (Niigata University, Japan)
mTOR mediates neuronal maturation and cell size control.

Coffee break (14:25~14:40)

Session 2: Maturation of cytoskeletal molecules in neurons
Chair: Noriko Koganezawa (Gunma University, Japan)
14:40~14:55  Hideto Takahashi  (IRCM, Canada)
Drebrin governs spine morphogenesis.

14:55~15:10  Toshiyuki Mizui  (AIST, Japan)
LTP-induced translocation of drebrin in mature synapse.

15:10~15:25 Nobuhiko Kojima (Toyo University, Japan)
Drebrin is a key molecule for LTP formation.

15:25~15:40 Hiroyuki Yamazaki (Gunma University, Japan)
A novel drebrin-binding protein spika mediates spine formation

Coffee break (15:40~15:55)

Session 3: Maturation of human iPSC-derived neurons
Chair: Yuko Sekino (NIHS, Japan)

15:55~16:15 Reiko T Roppongi (Gunma University, Japan)
Early development of iPSC-derived neurons.

16:15~16:30 Kaoru Sato (NIHS, Japan)
Sequential expression of various receptors along with the differentiation of human iPSC-driven neurons

16:30~16:45 Norimasa Miyamoto (Eisai Co., Japan)
Application of iPSC-derived differentiated cells to safety assessment.

Plenary lecture (16:45~17:15)
Chair: Kazuyuki Imamura (Maebashi Institute of Technology, Japan)
Tomoaki Shirao (Gunma University, Japan)
Drebrin as a surrogate marker of synaptic maturation.

Closing Remarks (17:15~17:20) Nobuhiko Kojima (Toyo University, Japan)

Party