

Avison Biomedical Symposium 2017

“Neuroscience: Exploring the Final Frontier”

May 18 (Thur), 2017

Eun Myung Auditorium (Yonsei University College of Medicine, Seoul, Korea)

08:00-09:00 Introduction for students (pre-symposium session)

09:00-09:10 Welcome remarks

Session I : Psychiatric Disorders

09:15-09:40 Privileged dopaminergic cells drive acute approach and avoidance

Adam Claridge-Chang (DUKE-NUS, Singapore)

09:40-10:05 Piece by piece: building a human cerebral cortex in a dish *Sergiu Pasca (Stanford, USA)*

10:05-10:30 Cognitive translation from mice to humans *Lisa Saksida (Western University, Canada)*

10:30-10:55 The non-human primate for autism *Zilong Qiu (ION, Chinese Academy of Sciences, China)*

10:55-11:15 Coffee Break

Session II : Plenary

11:15-12:00 Transforming neuroscience therapeutics

Michael Ehlers (Biogen, USA)

12:00-13:10 Lunch

Session III : Human Brain Imaging

13:10-13:35 Brain network functional dynamics in neuropsychiatric disorders:
linking connectivity to behavior

Juan Zhou (DUKE-NUS, Singapore)

13:35-14:00 The emergence of computational psychiatry *Read Montague (Virginia Polytechnic, USA)*

14:00-14:20 Dynamic brain system and its implication on neuropsychiatry

Hae-Jeong Park (Yonsei, Korea)

14:20-14:40 Coffee Break

Session IV : Keynote

14:40-15:20 Harnessing hypoxic adaptation to treat neurological disorders:
phylogeny meets technology

*Rajiv Ratan (Burke Medical Research Institute
at Weill Cornell Medicine, USA)*

Session V : Neural Circuits

15:20-15:40 Phospholipase C1 abnormality affects synaptic plasticity and animal behavior

Joung-Hun Kim (Postech, Korea)

15:40-16:05 The hidden lives of auditory neurons: how is the ear wired for the sense of hearing?

Lisa Goodrich (Harvard, USA)

16:05-16:25 Thalamocortical circuit in pain processing

Eunji Cheong (Yonsei, Korea)

16:25-16:40 Coffee Break

Session VI : Latest Technologies

16:40-17:05 Synapse, circuits, and brain disorders

Hyunsoo Shawn Je (DUKE-NUS, Singapore)

17:05-17:25 Super-resolution imaging by tissue expansion and clearing technique

Jeong-Yoon Park (Yonsei, Korea)

17:25-17:45 RNA-dependent mechanisms in wiring and maintenance of visual circuits

Hosung Jung (Yonsei, Korea)