

International Center for Brain Science
Fujita International Symposium on Brain Science 2023

Day 1 (2023/11/25 Sat) Venue:16F Iris

9:30 to 9:40

Opening Remark

Yukio Yuzawa

President, Fujita Health University

Symposium1 (45 min x 1, 30 min x 1, 35 min x 2)
" Synapses and circuits in health and diseases Part 1(synapses)"
Chair: Takayuki Yamashita

S1-1

9:40 to 10:25

"NMDAR Phosphoproteome Controls Synaptic Growth and Learning"

Kozo Kaibuchi

International Center for Brain Science, Fujita Health University

S1-2

10:25 to 10:55

"Neural circuits for sensorimotor gating"

Seung-Hee Lee

Korea Advanced Institute of Science and Technology, Korea

10:55 to 11:10

Break

S1-3

11:10 to 11:45

"Imaging neural circuits in development and diseases"

Shigeo Okabe

Graduate School of Medicine, The University of Tokyo

S1-4

11:45 to 12:20

"Modeling Neurological Diseases using Genetically Modified Marmosets and iPSC technologies"

Hideyuki Okano

Keio University School of Medicine / School of Medicine, Fujita Health University

12:20 to 13:20

Lunch

Workshop 1 (20 min x 3)

Chair: Akihiro Mouri

W1-1

13:20 to 13:40

"KANPHOS: A web-based database of kinase-associated neural phospho-signaling with quality control"

Junichiro Yoshimoto

School of Medicine, Fujita Health University

W1-2

13:40 to 14:00

"Acetylcholine-dependent Signal Transduction Leading to Aversive Learning"

Yukie Yamahashi

International Center for Brain Science, Fujita Health University

W1-3

14:00 to 14:20

"The research of the neural basis responsible for the antidepressant effects of psilocybin"

Daisuke Ibi

Graduate School of Pharmacy, Meijo University

Symposium2 (35 min x 3, 40 min x 1)

"Psychiatry"

Chair: Taku Nagai

S2-1

14:20 to 15:00

"Genetics of bipolar disorder – translating discoveries to biological insight and clinical decision support"

Ole A. Andreassen

Institute of Clinical Medicine, University of Oslo, Norway

S2-2

15:00 to 15:35

"The path from genomic analysis to pathophysiology of psychiatric disorders"

Nakao Iwata

School of Medicine, Fujita Health University

15:35 to 15:50

Break

S2-3

15:50 to 16:25

"Neurobiology of bipolar disorder: from genetics to neural circuits"

Tadafumi Kato

Juntendo University Graduate School of Medicine

S2-4

16:25 to 17:00

"Translational multi-modal biology of childhood trauma"

Manabu Makinodan

Nara Medical University

Workshop2 (20 min x 2)

Chair: Takashi Nakano

W2-1

17:00 to 17:20

"Computation reveals the roles of neuronal spine shapes in learning and memory"

Hidetoshi Urakubo

School of Medicine, Fujita Health University

W2-2

17:20 to 17:40

"Optogenetic manipulation and imaging of signaling molecules in dendritic spines of neurons"

Hideji Murakoshi

National Institute for Physiological Sciences

18:30 to 20:30

Evening Reception

Venue:17F Cosmos

Symposium3 (35 min x 3, 40 min x 1)

"Synapses and circuits in health and diseases Part 2 (circuits and diseases)"

Chair: Kozo Kaibuchi

S3-1

9:30 to 10:05

"Multi-scale analysis of drug addiction"

Taku Nagai

International Center for Brain Science, Fujita Health University

S3-2

10:05 to 10:45

"Neural mechanisms of addictive behavior"

Christian Lüscher

Faculty of Medicine, University of Geneva, Switzerland

10:45 to 11:00

Break

S3-3

11:00 to 11:35

***"Bridging Corticogenesis and Neurodevelopmental Disorders:
Molecular Insights"***

Noriko Osumi

Tohoku University Graduate School of Medicine

S3-4

11:35 to 12:10

***"Bridge over Troubled Synapses: Novel Therapeutic Strategies for
Neuropsychiatric and Neurological Disorder."***

Michisuke Yuzaki

Keio University School of Medicine

12:10 to 13:10

Lunch

Workshop3(20 min x3)

Chair: Hirohisa Watanabe

W3-1

13:10 to 13:30

***"Repulsive axon guidance molecule FLRT2 regulates neuronal migration and
social behavior."***

Satoru Yamagishi

Hamamatsu University School of Medicine

W3-2

13:30 to 13:50

***"Understanding the pathology caused by neuromuscular interactions in
motor neuron disease"***

Yohei Okada

Institute for Medical Science of Aging, Aichi Medical University

W3-3

13:50 to 14:10

"Microglial colonization and roles in early brain development"

Yuki Hattori

Graduate School of Medicine, Nagoya University

Symposium4 (35 min x 3, 40 min x 1)

"Neurodegenerative diseases"

Chair: Hideyuki Okano

S4-1

14:10 to 14:45

"Microglial replacement as a strategy for brain diseases"

Schuichi Koizumi

Interdisciplinary Graduate School of Medicine, University of Yamanashi

S4-2

14:45 to 15:20

"Patho-physiological roles of astrocytes"

Jun Nagai

RIKEN Center for Brain Science

15:20 to 15:35

Break

S4-3

15:35 to 16:15

"Targeting Neuronal APOE4 Toxicity in Alzheimer's Disease "

Yadong Huang

Gladstone Institute of Neurological Disease, USA

S4-4

16:15 to 16:50

"Development of Initial Lesion Detection and Prevention Methods for Alzheimer's Disease"

Hirohisa Watanabe

School of Medicine, Fujita Health University

Workshop4 (20 min x 2)

Chair: Junichiro Yoshimoto

W4-1

16:50 to 17:10

"Activation of the PKA/Rap1 cascade ameliorates Parkinsonian symptoms"

Hiromi Sano

International Center for Brain Science, Fujita Health University

W4-2

17:10 to 17:30

"How Rewards Influence Facial Movements in Mice"

Takayuki Yamashita

School of Medicine, Fujita Health University

17:30 to 17:40

Closing remark

Nakao Iwata

Vice President, Fujita Health University