Ver. 10/31/2022

International Center for Brain Science

The 1st Fujita International Symposium on Brain Science

Day1 (Nov. 19, 2022) Venue：16F Towers Ballroom

9:30 to 9:40	**Opening Remark** **Yukio Yuzawa** President, Fujita Health University
9:40 to 9:50	**Overview of ICBS** **Kozo Kaibuchi** International Center for Brain Science, Fujita Health University

Symposium 1 (35min x 4) "Brain Functions & Basal Ganglia"

Chair：Taku Nagai

9:50 to 10:25	***"Acquired Mitochondrial Dysfunction, Parkinsonism, and Network Determinants of Disability"*** **D. James Surmeier** Feinberg School of Medicine, Northwestern University, USA
10:25 to 11:00	***"Neuronal signals regulating emotion and memory"*** **Kozo Kaibuchi** International Center for Brain Science, Fujita Health University
11:00 to 11:15	**Break**
11:15 to 11:50	***"Regulation of neural stem cell fate"*** **Yukiko Gotoh** Graduate School of Pharmaceutical Sciences,The University of Tokyo
11:50 to 12:25	***"Neural Circuits for Goal-Directed Sensorimotor Transformation"*** **Carl Petersen** Brain Mind Institute, EPFL, Switzerland
12:25 to 13:25	**Lunch**

Workshop 1 (20min x 3)

Chair：Junichiro Yoshimoto

13:25 to 13:45	***"PKA-Rap1 pathway in the nucleus accumbens regulates emotional behaviors of mice"*** **Taku Nagai** International Center for Brain Science, Fujita Health University
13:45 to 14:05	***"Data-driven approach to stratification of depression based on neuroimaging data."*** **Junichiro Yoshimoto** School of Medicine, Fujita Health University
14:05 to 14:25	***"Resting-state brain activity can predict target-independent aptitude in fMRI-neurofeedback training"*** **Takashi Nakano**

School of Medicine, Fujita Health University

Symposium 2 (35min x 4) "Psychiatric Disorders" **Chair: Masashi Ikeda**	
14:25 to 15:00	***"The Road to Understanding the Pathophysiology of Bipolar Disorder through Genetic Study"*** **Nakao Iwata** School of Medicine, Fujita Health University
15:00 to 15:35	***"Distorted neurocomputation by a small number of heavily-weighted synapses in psychiatric disorders"*** **Akiko Hayashi-Takagi** Center for Brain Science, RIKEN
15:35 to 15:50	**Break**
15:50 to 16:25	***"Neuroinflammatory Mechanisms of Stress"*** **Tomoyuki Furuyashiki** Graduate School of Medicine, Kobe University
16:25 to 17: 00	***"CEBRA: Learnable latent embeddings for joint behavioral and neural analysis"*** **Mackenzie Mathis** Brain Mind Institute, EPFL, Switzerland

Workshop 2 (20min x3) **Chair: Akihiro Mouri**	
17:00 to 17:20	***"Pathophysiological mechanisms in neurodevelopmental disorders caused by RAC3 small GTPase dysregulation"*** **Koh-ichi Nagata** Institute for Developmental Research, Aichi Developmental Disability Center
17:20 to 17:40	***"Neural circuit mechanisms that restore memory recall"*** **Hiroshi Nomura** Graduate School of Medical Sciences, Nagoya City University
17:40 to 18:00	***"Dysregulation of tryptophan metabolism in the pathophysiology of neuropsychiatric disease"*** **Akihiro Mouri** School of Medical Sciences, Fujita Health University

18:10 to 20:00	**Evening Reception** Venue：16F Iris

Ver.10/31/2022

International Center for Brain Science

The 1st Fujita International Symposium on Brain Science

Day2 (Nov. 20, 2022) Venue：16F Towers Ballroom

Symposium 3 (35min x 4) "Advanced Technologies for Brain Science" **Chair: Kozo Kaibuchi**	
9:30 to 10:05	***"Proximity Proteomics Reveals Shared Biology of Autism Risk Genes Predictive of Disease Modifiers"*** **Scott Soderling** School of Medicine, Duke University, USA
10:05 to 10:40	***"Remote control of neuronal functions using X-rays"*** **Takayuki Yamashita** School of Medicine, Fujita Health University
10:40 to 10:55	**Break**
10:55 to 11:30	***"Toward understanding multicellular circuit dynamics"*** **Hiroaki WAKE** Graduate School of Medicine, Nagoya University National Institute for Physiological Sciences
11:30 to 12:05	***"Spying on neuromodulation by constructing new genetically-encoded fluorescent sensors"*** **Yulong Li** School of Life Sciences, Peking University, China
12:05 to 13:05	**Lunch**
Workshop 3 (20min x 3) **Chair: Takayuki Yamashita**	
13:05 to 13:25	***"The epilepsy-related LGI1-ADAM22-PSD-95 pathway trans-synaptically regulates excitatory synaptic transmission, synaptic plasticity and neuronal excitability"*** **Yuko FUKATA** National Institute for Physiological Sciences
13:25 to 13:45	***"Research to understand and overcome ALS"*** **Yohei Iguchi** Graduate School of Medicine, Nagoya University
13:45 to 14:05	***"Role of microglial inflammatory platform underlying pathogenesis of Alzheimer's disease"*** **Takashi Saito** Graduate School of Medical Sciences, Nagoya City University

Symposium 4 (35min x 4) “Neurodegenerative Diseases” **Chair: Hirohisa Watanabe**	
14:05 to 14:40	***“Prevention of Alzheimer's and Parkinson's Disease by Optimizing Brain Energy Balance”*** **Hirohisa Watanabe** School of Medicine, Fujita Health University
14:40 to 15:15	***“Evolving Concepts in the Diagnosis of Parkinson’s Disease – from clinical Observation to a biological Definition”*** **Werner Poewe** Department of Neurology, Medical University Innsbruck, Austria
15:15 to 15:30	**Break**
15:30 to 16:05	***“Putting Recent Advances in the Management of Parkinson's Disease into Perspective”*** **Nobutaka Hattori** School of Medicine, Juntendo University
16:05 to 16:40	***“Modeling Neurological diseases using iPS cell technologies and Genetically Modified Non-human primates”*** **Hideyuki Okano** School of Medicine, Keio University

16:40 to 16:50	**Closing remark** **Nakao Iwata** Vice President, Fujita Health University

Organizer：International Center of Brain Science（ICBS）, Fujita Health University

Contact us（Secretariat）：Tell 0562-93-2641 / Mail icbs2022@fujita-hu.ac.jp

URL：https://www.fujita-hu.ac.jp/icbs/en/