

DAY 1      Friday, January 24, 2020

Opening Remarks    Shuh Narumiya, Kyoto University, Japan

Session 1; General Introduction : Towards Human Biology

The Contribution of Genes and Environment to the Evolution of Psychosis

Raquel E. Gur University of Pennsylvania, U. S. A.

An integrated view of complex psychiatric phenotypes

Shigenobu Kanba Kyushu University, Japan

Psychiatric disorders across the life course

Avshalom Caspi Duke University, U. S. A.

Evidence synthesis: Present and future

Toshiaki A. Furukawa Kyoto University, Japan

Session 2; Imaging & Computation

Multimodal imaging of dopamine and acetylcholine in schizophrenia: findings and implications

Anissa Abi-Dargham Stony Brook University, U. S. A.

Recent advances in understanding the biology of psychosis

Philip McGuire King's College London, U. K.

E/I-balance and gamma-band oscillations across illness-stages in Schizophrenia: Using Magnetoencephalography to identify circuit dysfunctions and biomarkers

Peter J. Uhlhaas University of Glasgow, U. K.

Salience account of delusion and hallucination

Jun Miyata Kyoto University, Japan

Session 3; Synaptic / Neural Circuit Mechanisms

Computational neuroscience approach to mental disorders

Mitsuo Kawato Advanced Telecommunications Research Institute International (ATR), Japan

Synapse biology and its relationship with psychiatric disorders

Akiko Hayashi-Takagi RIKEN Center for Brain Science, Japan

Neural Circuits underlying negative and positive valences

Kay M. Tye Salk Institute for Biological Sciences, U. S. A.

Innate fear odors elicit a physiological crisis mode that promotes survival in life-threatening situations

Kou Kobayakawa Kansai Medical University, Japan

DAY 2 Saturday, January 25, 2020

Session 4; Inflammation & Mental Illness

It takes two to tango: Immunity and the central nervous system

Jonathan Kipnis University of Virginia, U. S. A.

Inflammation and Immune Sensitization Associated with Psychosocial Stress

Jonathan Godbout The Ohio State University, U. S. A.

Stress and innate immune responses in the brain

Tomoyuki Furuyashiki Kobe University, Japan

Inflammation and depression

Edward T. Bullmore University of Cambridge, U. K.

Session 5; Disease Trajectory

Looking for critical mediators in major mental illnesses: early detection and intervention

Akira Sawa Johns Hopkins Hospital, U. S. A.

Next generation therapeutics of Anxiety and PTSD: the neural circuitry and cell-type specific pharmacology of Amygdala Functioning and Threat Processing

Kerry J. Ressler McLean Hospital, U. S. A.

Session 6; Translation

Rapid Antidepressant Effects of Ketamine

John H. Krystal Yale school of Medicine, U. S. A.

Quo Vadis Ketamine Enantiomers?

Kenji Hashimoto Chiba University, Japan

Sustained rescue of prefrontal circuit dysfunction by antidepressant-induced postsynaptic spine formation

Conor Liston Weill Cornell Medicine, U. S. A.

Inflammation and stress: Exploring novel drug targets for psychiatric disorders

Atsushi Kamiya Johns Hopkins University, U. S. A.

Modeling Human Neurological and Psychiatric Diseases with Stem Cells

Fred H. Gage Salk Institute for Biological Studies, U. S. A.