

MCCS 2021 Symposium

Please note that the schedule is referenced to **USA Eastern Standard Time (GMT-5)**

December 6

8:00 pm Welcome
Jennifer Raymond, President of MCCS; *Stanford University, USA*

Session 1

Satoshi Kida, Chair, President of MCCS-Asia; *University of Tokyo, Japan*

8:05 pm A neural circuit for visuomotor transformation in the frontal cortex
Seung-Hee Lee, *KAIST, South Korea*

8:25 pm The roles of REM sleep in brain maintenance
Yu Hayashi, *Kyoto University, Japan*

8:45 pm Growth regulatory mirnas in neuroplasticity and development
Mollie Meffert, *The Johns Hopkins University School of Medicine, USA*

9:05 pm Mechanisms underlying the ontogeny of episodic-like memory in mice
Adam Ramsaran, *University of Toronto, Canada*

9:25 pm Ensemble encoding of conditioned fear by prefrontal somatostatin interneurons
Kirstie A Cummings, *Icahn School of Medicine at Mount Sinai, USA*

9:30 pm Regulation of gene expression in neurons by bivalent chromatin marks
Celeste B. Greer, *Vanderbilt University, USA*

9:35 pm BREAK

9:45 pm Mineralocorticoid receptors are required for the development and maintenance of CA2's molecular profile and for CA2-dependent behavior
Serena M. Dudek, *National Institute of Environmental Health Sciences, National Institutes of Health, USA*

10:05 pm Gating of hippocampal rhythms and memory by synaptic plasticity in inhibitory interneurons
Huan Ma, *Zhejiang University, China*

10:25 pm **Won Do Heo**, *KAIST, South Korea*

10:45 pm Anterior thalamic dysfunction underlies cognitive deficits in psychiatric disease models
Dheeraj Roy, *Broad Institute of MIT and Harvard, USA*

December 7**Session 2****Andre Fischer**, Chair, President of MCCS-Europe; *Georg-August-University Göttingen*

- 3:00 am Remembering immunity: neuronal representation of immune experiences
Asya Rolls, *Israel Institute of Technology, Israel*
- 3:20 am Synaptic correlates of associative fear memory in the lateral amygdala
Hoonwon Lee, *Seoul National University, South Korea*
- 3:40 am **Magdalena Polymenidou**, *University of Zurich, Switzerland*
- 4:00 am On the discovery of ADRAM, an experience-dependent long noncoding RNA that drives fear extinction through a direct interaction with the chaperone protein 14-3-3
Timothy Bredy, *Queensland Brain Institute, Australia*
- 4:20 am Fear extinction impairments and sleep abnormalities in rats selected for blunted glucocorticoid responsiveness
Silvia Monari, *Laboratory of Behavioral Genetics, Brain Mind Institute, School of Life Sciences, Ecole Polytechnique Fédérale de Lausanne, Switzerland*
- 4:25 am Novel measures of Morris water maze performance that uses vector field maps to assess accuracy, uncertainty, and intention of navigational searches
Meenakshi Prabod Kumar, *Indian Institute of Science, India*
- 4:30 am BREAK
- 4:40 am **Steven Kushner**, *Erasmus University, Netherlands*
- 5:00am Sushi domains and synaptic plasticity
Fekrije Selimi, *Collège de France, France*
- 5:20 am Functional epi-genomics unveils new risk-genes and treatments for Alzheimer's disease
Jose Vicente Sanchez Mut, *Neuroscience Institute of Alicante, CSIC-UMH, Spain*
- 5:40 am Dysfunction of NMDA receptors in neuronal models of an autism spectrum disorder patient with a DSCAM mutation and in Dscam-knockout mice
Min Jung Kim, *School of Biological Sciences, Seoul National University, South Korea*

Session 3

- 11:00 am **Erin Schumann**, *Max Planck Institute for Brain Research, Germany*
- 11:20 am **Mario Penzo**, *National Institute of Mental Health, USA*
- 11:40 am Characterization of Distinct Neuronal Activity and Behavioral Profiles in a Novel Approach/Avoidance Conflict Assay in Mice
Christian Bravo-Rivera, *University of Puerto Rico School of Medicine, Puerto Rico*
- 12:00 pm Latent infantile memories influence new learning experiences in adulthood
Benjamin Bessières, *Center for Neural Science, New York University, USA*
- 12:20 pm Digestion of Cerebellar Perineuronal Nets to create Conditions for Change in Cocaine-induced Memory
Julian Guarque-Chabrera, *University Jaume I, Spain*
- 12:25 pm Changes evoked by learning in intrinsic excitability of GABAergic interneurons in the somatosensory cortex of mice.
Dominik Kanigowski, *Nencki Institute of Experimental Biology, Poland*
- 12:30 pm BREAK
- 12:40 pm Pathway-specific metaplastic regulation of LTP via astrocytes in the hippocampus
Cliff Abraham, *University of Otago, New Zealand*
- 1:00 pm Branch-specific dendritic plasticity in retrosplenial cortex integrates contextual memories across time
Megha Sehgal, *University of California Los Angeles, USA*
- 1:20pm **Anna Molofsky**, *University of California, San Francisco, USA*
- 1:40 pm Emerging Many-to-One weighted mapping in the hippocampus–amygdala circuitry underlies memory formation
Dong Wang, *Drexel University College of Medicine, USA*