

# 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  
**Weidong Li**, Chair
- 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      Molecular optogenetics: tool development and applications to neuroscience  
**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      Synaptic accumulation of FUS triggers early misregulation of synaptic RNAs in ALS-FUS mice  
**Magdalini 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      Oligodendrocyte progenitor cell dysfunction in familial schizophrenia  
**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**

**Jelena Radulovic**, Chair, MCCS Council Member; *Albert Einstein Medical College, USA*

- 11:00 am Protein Synthesis Mechanisms in Neurons  
**Erin Schuman**, *Max Planck Institute for Brain Research, Germany*
- 11:20 am The role of the paraventricular nucleus of the thalamus in active avoidance behavior  
**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 Microglia, memories, and the extracellular matrix  
**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*