



November 11, 2022 | San Diego Convention Center, Room 24

9:00 am Welcome. **Jennifer Raymond, MCCS President**, *Stanford University*

Session 1 – **Tom Carew**, Chair, *NYU*

9:05 am Mauro Costa-Mattioli, *Baylor College of Medicine, Altos Labs*,
Harnessing evolution to reset resilience networks and promote brain health

9:25 am Shira Knafo, *Ben Gurion University of the Negev*, m6A RNA
modifications modulate neuronal activity patterns and behavior

9:45 am Emma Robson, *University of Texas at Austin*, CA2 place cells that
respond to social odors are preferentially reactivated during sharp-wave ripples
in subsequent rest

10:05 am Sandra Maday *University of Pennsylvania*, Synaptic control of
autophagic-lysosomal trafficking in neurons and astrocytes

10:25 am Morning Break

Session 2 – **Karyn Frick**, Chair, *University of Wisconsin-Milwaukee*

11:00 am Ananya Chowdhury, *University of California, Los Angeles*, A locus
coeruleus-dorsal CA1 dopaminergic circuit modulates memory linking

11:20 am Gina Poe, *University of California, Los Angeles*, Unique sleep traits
critical to synaptic reorganization during learning

11:40 am Ain Chung, *Massachusetts General Hospital, Harvard Medical
School*, Increasing adult hippocampal neurogenesis enhances social
recognition memory by recruiting a feed-forward inhibitory circuit

12:00 pm Tal Laviv, *Tel-Aviv University*, Visualizing protein signaling
dynamics in intact neuronal circuits

12:20 pm Lunch Break

Session 3 – **Kobi Rosenblum**, Chair, *University of Haifa*

2:00 pm Murali Prakriya, *Northwestern University*, Orai1 channels amplify glutamate-evoked calcium signals in dendritic spines to regulate working and associate memory

2:20 pm Nikolay V. Kukushkin, *New York University*, Tug of war between ERK phosphorylation and dephosphorylation encodes number, strength, and order of stimuli inducing long-term synaptic facilitation

2:40 pm Yili Zhang, *UTHealth Houston*, Quantitative comparison of dynamics of ERK activation after three different serotonin protocols that induce long-term facilitation in *Aplysia*

3:00 pm Longzhi Tan, *Stanford University*, Probing the single-cell 3D genome architectural basis of neurodevelopment and aging in vivo

3:20 pm Afternoon Break

Session 4 – **Jelena Radulovic**, Chair, *Albert Einstein College of Medicine*

3:45 pm Kaoru Inokuchi, *University of Toyama*, Inspiring cognitive inference in cortical network during REM sleep

4:05 pm Mauricio M. Oliveira, *New York University*, GADD34 mediates BDNF-induced increases in neuronal de novo protein synthesis and memory

4:25 pm Annie Ciernia, *University of British Columbia*, Hdac3 regulates epigenetic control of microglial inflammation

4:45 pm Jooyoung Kim, *Seoul National University*, Visualization of astrocyte-neuron contact using eGRASP

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