

## The Molecular and Cellular Cognition Society

The Molecular and Cellular Cognition Society (MCCS) is an international organization intended to facilitate interchanges among laboratories in the field of Molecular and Cellular Cognition. The other two key goals of the Society are to promote the study of the molecular and cellular basis of cognitive function, and to educate the general public on key findings in the field, including their limitations and implications for health and society.

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## Molecular and Cellular Cognition Society 2019 Scholars

Catherine Pena, Xiaochen Sun

## For more information please visit:

our website: [www.molcellcog.org](http://www.molcellcog.org)

or email us at: [iowa-Neuroscience-Institute@uiowa.edu](mailto:iowa-Neuroscience-Institute@uiowa.edu)

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# 18<sup>TH</sup> ANNUAL MOLECULAR AND CELLULAR COGNITION SOCIETY

## SYMPOSIUM

October 18, 2019 | 9:00 am - 5:00 pm  
McCormick Place Convention Center  
Room N228



# CHICAGO

OCT 2019 17-18

# SYMPOSIUM PROGRAM

18<sup>TH</sup> ANNUAL

## Molecular and Cellular Cognition Society

OCTOBER 18, 2019 | 9:00 AM - 5:00 PM  
MCCORMICK PLACE CONVENTION CENTER  
ROOM N228

- 9:00 AM Welcome  
**Ted Abel**, MCCA President, *University of Iowa*
- Session I**  
**Yasunori Hayashi**, Chair, *Kyoto University, Japan*
- 9:05 AM Spying on monoamine neuromodulation by constructing new genetically-encoded GRAB sensors  
**Yulong Li**, *Peking University*
- 9:25 AM Testing the theory of epigenetic priming for memory formation  
**Allison Burns**, *Swiss Federal Institute of Technology, Lausanne*
- 9:45 AM Spatial novelty enhances flexible learning through ventral hippocampal-prefrontal metaplasticity  
**Alan Park**, *Columbia University*
- 10:05 AM Brain-wide neural oscillatory networks predict vulnerability to chronic stress  
**Rainbo Hultman**, *University of Iowa*
- 10:25 AM Morning Break
- Session II**  
**Jennifer Raymond**, Chair, *Stanford University*
- 11:00 AM Plasticity of nigrostriatal dopamine circuits during transitions to inflexible behavior  
**Talia Lerner**, *Northwestern University*
- 11:20 AM Multiple types of information are distributed in different ensembles of dentate gyrus neurons  
**Tomoyuki Murano**, *Fujita Health University*
- 11:40 AM CPEB3 inhibits translation of mRNA targets by localizing them to P bodies  
**Lenzie Ford**, *Columbia University*
- 12:00 PM Genes and circuits underlying empathy fear behavior in mice  
**Hee-Sup Shin**, *Institute for Basic Science, Korea*
- 12:20 PM Lunch Break

### Session III

**Kobi Rosenblum**, Chair, *University of Haifa*

- 2:00 PM Harnessing genetic complexity to identify mechanism of resilience to alzheimer's  
**Catherine Kaczorowski**, *The Jackson Laboratory*
- 2:20 PM Memory from changes in membrane excitability  
**Christian Hansel**, *University of Chicago*
- 2:40 PM Understanding and overcoming pharmacological tolerance in the treatment of fragile-X syndrome  
**Patrick McCamphill**, *MIT*
- 3:00 PM Identifying the neurobiological underpinnings of meta-learning  
**Sriram Jayabal**, *Stanford University*
- 3:20 PM Afternoon Break
- Session IV**  
**Xiochen Sun**, Chair, *MIT*
- 3:45 PM A novel framework for cell-type specific stimulus encoding in the nucleus accumbens  
**Erin Calipari**, *Vanderbilt University*
- 4:05 PM Investigating the role of a synaptically targeted intronic lncRNA in memory storage  
**Sathya Puthanveetil**, *The Scripps Research Institute*
- 4:25 PM Pharmacological or genetic reduction in miR-128 rescues learned vocal communication deficits  
**Caitlin Aamodt**, *UCLA*
- 4:45 PM Toward a reevaluation of the molecular code hypothesis of memory storage: evidence from *Aplysia*  
**David Glanzman**, *UCLA*