

**The Mysteries and Marvels of Memory  
March 26-28, 2010**

Silver Center, New York University  
31 Washington Place, Room 703  
New York, NY 10003

**SCHEDULE**

**Friday, March 26, 2010**

**7:00 - 9:00pm Welcoming Cocktail Party**

Kimmel Center, New York University  
60 Washington Square South, Room 914  
New York, NY 10003

**Saturday, March 27, 2010**

**9:00 - 10:30 Basic building blocks of biological learning machines**

**Session Chair: Yadin Dudai**

**9:00** Seth Grant - Molecular origins of the synapse and evolution of adaptive behaviour  
Wellcome Trust Sanger Institute, Cambridge, UK

**9:30** Henry Markram - Isolating Acquired vs Innate Determinants of Synaptic and  
Microcircuit Plasticity  
École Polytechnique Fédérale de Lausanne, Switzerland

**10:00** Joseph LeDoux - Building Blocks of the Fear Learning Machine  
The Center for Neural Science, New York University, New York

**10:30 - 10:40 Debate/Discussion**

**10:40 - 11:00 Coffee Break**

**11:00 - 12:30 Substrates of elementary learning principles**

**Session Chair: Eric Klann**

**11:00** Sheena Josselyn - Continuing the search for the engram  
Hospital for Sick Children, University of Toronto

**11:30** Bong-Kiun Kaang - Dynamic nature of long-term memory  
Seoul National University

**12:00** Craig Stark - Pattern separation and the aging hippocampus  
University of California, Irvine

**12:30 - 12:40 Debate/Discussion**

**2:00 - 3:30 Molecular Disruption of Long-Term Memory—Can memory be erased?**  
**Session Chair: Joseph LeDoux**

**2:00** Todd Sacktor - How does inhibiting PKM  $\zeta$  erase memory?  
SUNY Downstate Medical Center, Brooklyn, NY

**2:30** Karim Nader - Reconsolidation and the nature of amnesia  
McGill University, Montreal

**3:00** Merel Kindt - Deconstructing Fear Memory: Extinction and Reconsolidation  
University of Amsterdam

**3:30-3:40 Debate/Discussion**

**3:40-4:00 Coffee break**

**4:00 - 5:30 Behavioral Interference with Long-Term Memory**  
**Session Chair: Elizabeth Phelps**

**4:00** Marie Monfils - Reconsolidation-extinction interactions in fear memory updating  
University of Texas, Austin

**4:30** Matthew Walker - Sleep and sleep loss: Enhancing and interfering with human memories  
Assistant Professor of Psychology & Neuroscience, UC Berkeley

**5:00** Lynn Nadel - Episodic Memory Updating  
University of Arizona, Tucson

**6:00 - 7:00 Keynote Address: Yadin Dudai**  
The Engram Shaped and Reshaped: Lessons from the Rat Neocortex  
New York University and Weizmann Institute of Science

**Sunday, March 28**

**9:00 - 10:30 Enhancement of long-term memory**  
**Session Chair: Lila Davachi**

**9:00** Li-Huei Tsai - Picower Institute for Learning and Memory  
Epigenetic Mechanisms Regulating Memory Formation in Health and Disease  
MIT

**10:00** Charan Ranganath - Improving episodic memory and prefrontal function through working memory training  
UC Davis

**10:30** Tim Tully - CREB & Memory Enhancers  
Dart Neuroscience LLC

**10:30 - 10:40 Discussion/Debate**

**10:40 - 11:00 Coffee Break**

**11:00 - 12:30 Novel findings: Will they change the way we view the MTL?**  
**Session Chair: Wendy Suzuki**

**11:00** Jill Leutgeb - New Findings for Encoding Information in Hippocampal Neural Networks  
UC San Diego

**11:30** Elizabeth Gould - Structural plasticity and hippocampal function  
Princeton University

**12:00** Daniel Schacter - Episodic Simulation of Future Events and the Medial Temporal Lobe  
Harvard University, Cambridge, MA

**12:30 - 12:40 Discussion/Debate**

**12:40 - 12:45 End of Conference/Closing Remarks**