

Advances in Memory Systems

Sponsored by the Center for Learning, Memory and Emotion

May 28-29, 2015

NYU, Washington Square Campus

Rosenthal Pavilion Room, 60 Washington Square South (10th Floor).

Thursday, May 28, 2015

09:30 - 09:35 Introductory remarks

Session I: Chair and commentator, Marjorie Rhodes

09:35 - 09:55 Rony Paz: *From normal generalization to anxiety in primate networks*

09:55 - 10:15 Nim Tottenham: *Human Amygdala-Prefrontal Circuit Development*

10:15 - 10:35 Elizabeth Phelps: *Novel techniques to control fear in humans*

10:35 - 10:55 Joe LeDoux: *Reacting and Acting When in Harm's Way*

10:55 - 11:10 *Comments:* Marjorie Rhodes

11:10- 11:40 *Coffee Break*

Session II: Chair and Commentator, Eero Simoncelli

11:40 - 12:00 Michael Kahana: *Theta and HFA correlates of human memory*

12:00 - 12:20 Loren Frank: *Activation and reactivation of hippocampal-cortical circuits: A potential substrate for memory*

12:20 - 12:40 Brice Kuhl: *Resolving interference during the encoding of overlapping memories*

12:40 - 12:55 *Comments:* Eero Simoncelli

1:00 - 2:00 *Lunch break*

Session III: Chair and commentator, David Poeppel

2:00 - 2:20 Carol Barnes: *Impact of aging on brain circuits and behavior*

2:20 - 2:40 Andre Fenton *Neural dynamics and the structure of cognition*

2:40 - 3:00 Cristina Alberini: *Mechanisms of memory consolidation and enhancement*

3:00 - 3:20 Wendy Suzuki: *Pattern Separation in the Monkey Medial Temporal Lobe*

3:20 - 3:35 *Comments:* David Poeppel

3:40 - 4:10 *Coffee Break*

Session IV: Chair and commentator, Eric Klann

4:10 - 4:30 Alison Adcock: *Neural Contexts for Adaptive Memory Formation*

4:30 - 4:50 Richard Tsien *Molecular detective work: how synaptic tagging and resource recruitment might be joined at the hip*

4:50 - 5:10 Nathaniel Daw: *Episodic memory and nonparametric value estimation for decision making*

5:10 - 5:30 Donald Goff: *New models for treatment development in schizophrenia*

5:30 - 5:45 *Comments:* Eric Klann

6:00 – 7:00 *Reception*

Friday, May 29, 2015

Session V: Chair and Commentator, Jonathan Winawer

09:30 - 09:50 Richard Morris: *Optogenetic analysis of synaptic and behavioral tagging*

09:50 - 10:10 Tom Carew: *Using a simple system to explore a complex question: The role of pattern formation and growth factor signaling in memory formation in Aplysia*

10:10 - 10:30 Yadin Dudai: *The first seconds of an item in human episodic memory*

10:30 - 10:50 Lila Davachi: *Distributed learning, pattern separation and episodic memory*

10:50 - 11:05 *Comments*: Jonathan Winawer

11:10 - 11:40 *Coffee Break*

Session V: Chair and commentator, Roozbeh Kiani

11:40 - 12:00 Weiji Ma: *Do item limits exist in visual working memory?*

12:00 - 12:20 Clay Curtis *Is the human PFC necessary for working memory?*

12:20 - 12:40 Bijan Pesaran *Sensory-motor mechanisms that maintain and manipulate verbal and spatial memories*

12:40 - 12:55 *Comments*: Roozbeh Kiani

13:00 Adjourn