

25th WPI IIIS Seminar

“Temporal coordination of neuronal activity in the entorhinal-hippocampal circuit”

Information processing in the brain is the result of coordinated patterns of neural activity across large networks spanning a vast range of spatial and temporal scales. We simultaneously recorded the activity of many (~100) neurons and local field potentials (LFP) from multiple layers of the hippocampus and entorhinal cortex of rats during spatial memory tasks and sleep, and found that spiking activity was organized in brain-region, cell-type, and brain-state specific manners. The coordinated neural activity in the entorhinal-hippocampal circuit may underlie the formation and retrieval of episodic memories.



Speaker: Dr. Kenji Mizuseki

Allen Institute for Brain Science, Seattle, WA, USA
New York University, New York, NY, USA

Date: Wednesday, December 25, 2013

Time: 12:00-13:00

Venue: Room #402, 4F, Health and Medical Science Innovation Laboratory, University of Tsukuba

★Light refreshments will be served.



IIIS

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