

# 69<sup>th</sup> WPI IIS Seminar

## Selective Awake Replay Impairments in Genetically Engineered Alzheimer's Disease Model Mice

The hippocampal-entorhinal cortical network has been suggested to play a crucial role in learning and memory. Among several distinct neuronal activities, hippocampal replay has been suggested to play an important role in memory encoding, maintenance, retrieval and consolidation. In the Tonegawa laboratory, we have genetically engineered a mouse model that shows Alzheimer's Disease-like behavior in spatial working memory tasks. In this seminar, I will first briefly describe our previous findings including dynamical coupling in the hippocampal-entorhinal cortical network and then, I will mostly focus on recent findings from decoding analysis of hippocampal replays during awake and sleep.



Speaker:

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**Date: Tuesday, November 17, 2015**

**Time: 13:00 - 14:00**

**Venue: 1F Auditorium, IIS Building  
University of Tsukuba**



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