

グローバル COE 特別セミナー

生物化学専攻セミナー

日時：平成 20 年 12 月 17 日（水） 18:00～19:30

場所：理学部 3 号館 4 階 412 号室

講師：林 康紀

**RIKEN-MIT Neuroscience Research Center
The Picower Institute for Learning and Memory
Department of Brain and Cognitive Sciences**

演題：Molecular mechanisms of hippocampal long-term potentiation

要旨：

In hippocampus, a transient burst of input activity leads to a long-term potentiation (LTP) of subsequent synaptic transmission. This phenomenon has been considered as a cellular counterpart and attracted interest of many neuroscientists. In an attempt to elucidate the molecular mechanism, I have been using a combined approach of molecular biology, imaging and electrophysiology, which allows us to specifically “look”, “mimic” and “block” the process underlying LTP.

In this talk, I will summarize my results how synapse reaches the potentiated level and what is the question now.

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