

# 大学院特別講義のご案内

- ◆ 日時: 2013年6月25日(火) 17:00～18:00  
(質疑応答19:00～19:30)
- ◆ 場所: F棟4階 大学院セミナー室
- ◆ 講師: 高橋和貴先生  
(USA・University of Chicago・postdoctoral scholar)
- ◆ 演題: Spatiotemporal dynamics of multiple bands of local field potentials from orofacial portion of primary motor cortex during feeding
- ◆ 要旨: Previously we identified multiple local field potential peaks (beta, low gamma, and high gamma) in M1o. We investigated if each band exhibits similar spatiotemporal dynamics seen in the arm area of M1. We analyzed LFPs recorded from two macaque monkeys while they were performing a manual feeding task. Tongue and jaw kinematics were recorded. Most of the channels showed strong beta power at a consistent frequency, while gamma oscillations exhibited wide variations in peak frequency across the cortical surface. Beta oscillations propagated as planar waves along a rostrocaudal axis. As for the gamma oscillations, only lower frequency gamma band propagated as planar waves with a unimodal direction distribution oriented towards the central sulcus. These results indicate that both beta and low gamma oscillations are spatiotemporally organized and propagate as planar waves. The spatial variations in gamma oscillation frequency across M1o suggest that gamma oscillations may be related to more localized neural activity than beta oscillations.

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