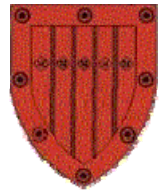




東大神経生化学セミナー/ 関西大学RISS・CEE共催セミナーのご案内
The University of Tokyo Neurochemistry /
Kansai University RISS and CEE Joint Seminar Announcement



High-throughput, quantitative analysis of synaptic distributions in the neocortex

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場所：医学部教育研究棟 13階 第8セミナー室 (Room 1305)

連絡先：東京大学 大学院医学系研究科 神経生化学分野 尾藤晴彦

関西大学 RISS (Research Institute for Socionetwork Strategies)/CEE (Center for Experimental Economics) 松下敬一郎

Abstract:

Synapses are critical for neural communication, and cell-type specific connectivity defines how information is received and processed in the cerebral cortex. A given neuron may receive thousands of synapses from local and distant partners, and the way that these inputs – from both excitatory and inhibitory neurons – are distributed across the cell can be a characteristic of different cell types as well as help understand activity-dependent rewiring during learning. We have developed molecular genetic tools for high-throughput synapse labeling and quantification that can be cell-type and compartment specific. In addition, these fluorescence-based tools enable input assignment for a quantitative description of how synapses are organized under different conditions.

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