

The 148th iCeMS SEMINAR

CeMI Seminar Series 41

27 November 2013

15:00-16:00

Regulating synaptic strength distribution in the dendritic tree

Lecturer: **Dr Yukiko Goda**
RIKEN Brain Science Institute
Laboratory for Synaptic Plasticity and Connectivity

Venue: 2nd Floor Seminar Room (#A207)
iCeMS Main Building (#70) Kyoto University

Dendrite is a neuronal structure specialized for receiving and processing information through its many synapses. How incoming activity modifies synaptic strength distribution across the dendrite is fundamental to understanding brain function although much remains unclear. Using a combination of electrophysiology and imaging approaches in simple circuits, Dr. Yukiko Goda and her colleagues have studied the relationship between neighbouring synapses in single postsynaptic neurons. In this seminar, she will show evidence they obtained for a novel cellular mechanism in balancing presynaptic strengths of convergent synaptic connections that target the same dendritic tree.

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Hosted by: iCeMS (Institute for Integrated Cell-Material Sciences), Kyoto University

