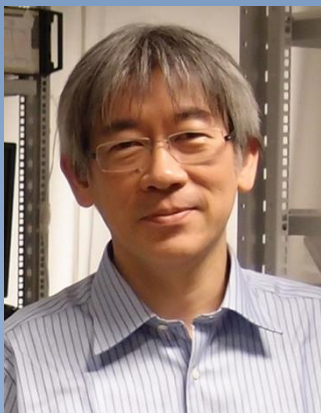


70th WPI IIS Seminar

Visualizing dynamics of synapse molecules *in vitro* and *in vivo*

Formation and elimination of synapses are highly regulated and provide a basis for proper functions of the mature brain circuits. Synapse imaging is a useful technology for identification of molecular mechanisms of synapse remodeling. Synapse imaging revealed that multiple molecular pathways, such as Cbln1-GluD2 and postsynaptic microtubules-associated proteins, are involved in unique structural changes of synapse in specific brain circuits. Genes associated with autism spectrum disorder are also involved in modulation of synapses, as their mutations affect synapse remodeling in the developing brain. Molecular mechanisms of synapse remodeling in both physiological and pathological conditions will be discussed.



Speaker:

Dr. Shigeo Okabe

Department of Cellular Neurobiology,
The University of Tokyo

Date: Thursday, December 3, 2015

Time: 13:00 - 14:00

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



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