

153rd WPI-IIIS Seminar

Glyoxal, an innovative fixative for neuroscience research

Synaptic molecules are highly organized to fulfill neural functions. Through my neuroanatomical research on molecular organization and mechanism of glutamatergic synaptic wiring, I realize that widely-used **formalin fixation** often hinders synaptic molecules from histochemical detection. This is particularly true for PSD and synaptic adhesion molecules. To solve this problem, I have so far tested and adopted various antigen-retrieval and -exposing techniques, such as protease pretreatment and postembedding methods. Recently, **glyoxal fixation** was reported to be a better alternative for formalin fixation (Richter et al. EMBO J 37:139-159, 2018). In this seminar, I will introduce the usefulness and effectiveness of the new fixative in synaptic molecule detection.



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Date: **Tuesday, July 9, 2019**

Time: **12:00 – 13:00**

Venue: **1F Auditorium, IIIS Building**



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