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Adaptive parallel processing in the retina

15:00-16:30 on March 13 (Tue), 2018

Lecture room (205) in Pharm. Sci. Bldg.

The retina is challenged with encoding visual scenes across light intensities that span twelve orders of magnitude between night and day. I will present how adaptation mechanisms in the retina reshape the processing of visual information between night and day. These adaptation mechanisms reveal new roles for gap junctions and feed-forward inhibition in neural circuits. I will also present some of our preliminary results to use cell-type specific drug delivery to control the function of neurons in the retina.

Host: Fumitaka Osakada (ext. 6814)