

86th WPI IIS Seminar

Genetic Dissection of Sleep in Fruit Flies - The discovery of a novel somnogen -

Sleep has been postulated to be controlled by the balance between opposing networks that facilitate sleep and wakefulness. Previous genetic screenings carried out in *Drosophila* have identified many genetic factors that modulate wakefulness and sleep. However, these factors are permissive for sleep rather than instructive. In order to identify genetic factors that are necessary and sufficient for sleep, we carried out an unbiased and genome-wide genetic screen. Through over 12,000 lines, we discovered a novel gene, "nemuri" regulating sleep in *Drosophila*. We propose that Nemuri is a somnogen regulated by the sleep homeostat.



Speaker:

Dr. Hirofumi Toda

University of Pennsylvania /
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USA

Date: Wednesday, September 14, 2016

Time: 12:00 - 13:00

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

★ Light refreshments will be served.



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