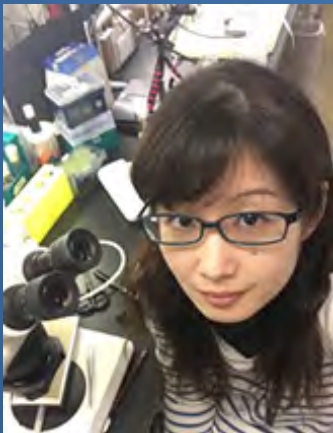


# 101<sup>st</sup> WPI-IIIS Seminar

## Nutrient-dependent regulation of steroid hormone biosynthesis in the fruit fly *Drosophila melanogaster*

In most animals, the timing of the juvenile-to-adult maturation is coupled to nutrient availability. Under the poor-food condition, the maturation is delayed until when juveniles obtain enough nutrients to grow into adults. However, the underlying genetic mechanism is unclear. To address how animal development responds to nutrition, we are using the fruit fly *Drosophila melanogaster* as a model system. The insect steroid hormone, ecdysteroid, is essential for controlling the timing of maturation known as metamorphosis. In this seminar, I will talk about our finding of serotonergic neurons “SEO<sub>PG</sub>”, which regulate the timing of ecdysteroid biosynthesis in the nutrient-dependent manner.



### Dr. Yuko Shimada-Niwa

Life Science Center of Tsukuba Advanced Research Alliance, University of Tsukuba

Date: **Thursday, January 19, 2017**

Time: **12:00 – 13:00**

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



**IIIS**

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