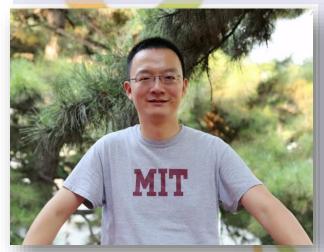
SEMINAR ALL ARE WELCOME



29 November 2016 (Tuesday), 4pm
The Auditorium (Level 1)

Hosted by: Dr KOH Tong-Wey

The neural regulation of energy and nutrient homeostasis in Drosophila Dr Liming WANG



Dr. Liming Wang is a tenure-track Investigator at Life Sciences Institute, Zhejiang University since 2014. He got B.S. from Peking University in 2005 and Ph.D. from California Institute of Technology in 2011. He then established his independent research with lab the support of **Bowes Fellows** Research Program University of California, Berkeley before taking his current position at Zhejiang University. Dr. Wang has a long lasting interest in fruit flies. His undergraduate thesis focused on modeling depression disorders in fruit flies. His PhD research elucidated the chemosensory regulation of social behaviors in fruit flies. His lab is currently interested in understanding the regulation energy and organismal nutrient homeostasis by the nervous system, using fruit flies as the model system.

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The survival and well-being of animals rely on precisely maintained balance between energy intake and expenditure. The central nervous system (CNS) plays a crucial role in maintaining energy and nutrient homeostasis. It determines fluctuations of the internal energy/nutrient state and initiates or food intake behaviors terminates accordingly. However, despite its striking accuracy, the ability of CNS the to maintain energy and nutrient homeostasis can be disrupted by sustained environmental challenges, including high fat diet, insomnia and stress, which may contribute to the pathogenesis of prevailing metabolic disorders in post-industrialized societies, such as eating disorders, obesity and type II diabetes. It is therefore of both scientific and clinical interest to elucidate the mechanism underlying the regulation of food intake by the CNS. Our laboratory uses the fruit fly Drosophila melanogaster as a model system to investigate this problem. I will share our recent findings into the regulation of food intake behaviors implication in their organismal homeostasis.

Recent Publications:

- Yang, Z., Yu, Y., Zhang, V., Tian, Y., Qi, W., and Wang, L.(2015).Octopamine mediates starvation-induced hyperactivity in adult Drosophlia. Proc.Acad.Acad.Sci.USA 112,5219-5224, September 08,2015
- Yu, Y., Rui, H., Jie, Y., Zhang, V., Chao, W., Guo, C., Jia, J., Wang, L. (2016). Regulation of starvation-induced hyperactivity by insulin and glucagon signaling in adult Drosophila. eLife 2016;5:e15693, September 9, 2016
- Wang, L. (2014). How sex prevents violence: the magic of caress (and GABA). Nature Neurosci. 17, 4-6. September 08.2015