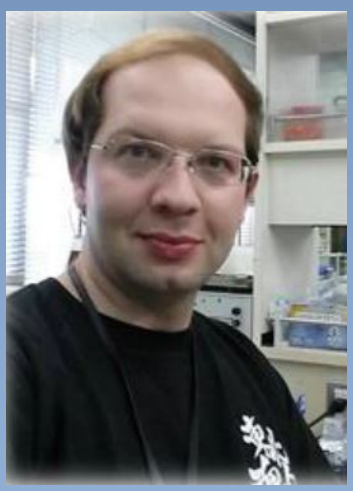
78th WPI IIIS Seminar

Genomics and advanced transcriptomics of super-sleepers: uncovering mechanisms of anhydrobiosis and hibernation

Beyond traditional sleeping pattern in animals, there are adaptations to hypometabolism, ranging from dormancy, where vital processes are significantly suppressed to examples of complete ametabolic cases, i.e. anabiosis. The most impressive examples of anabiosis, is the sleeping chironomid *Polypedilum vanderplanki*: an insect able to survive without water for years. A champion among mammalians sleepers is dormice, able to spent up to 11 months in dormancy. In my talk I will outline our recent finding (based on the advanced transcriptomics methods, including deep analysis of promotors and enhancers) on the genetic mechanisms providing such extraordinary ability to these animals.



Speaker:

Dr. Oleg Gusev

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Date: **Friday, June 10, 2016**
Time: **13:00 - 14:00**
Venue: **1F Auditorium, IIIS Building**
University of Tsukuba

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