

# 43<sup>rd</sup> WPI IIIS Seminar

## “From Fruit Flies to Fly Balls: Molecular Genetics of Circadian Clocks and Sleep”

My laboratory has been using studies primarily in the fruit fly *Drosophila* but also in the mouse and even humans to better understand the molecular basis of sleep and circadian rhythms. Here we will address: 1) how circadian clocks control neuronal excitability to control daily rhythms of sleep and wake in both flies and mice, 2) how a memory processing center impacts arousal state in flies, and 3) how jet lag impacts human performance using Major League Baseball.



Speaker: Dr. Ravi Allada

Department of Neurobiology,  
Northwestern University

**Date:** Monday, September 29, 2014

**Time:** 11:00-12:00

**Venue:** Room #402, 4F, Health and Medical Science Innovation  
Laboratory, University of Tsukuba



# IIIS

INTERNATIONAL INSTITUTE FOR INTEGRATIVE  
SLEEP MEDICINE



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