

161st WPI-IIIS Seminar

What wakes us: Networked circadian clocks in the brain

Most organisms have daily rhythms in physiology and behavior synchronized to the local light-dark cycle. In mammals, nearly all cells contain a molecular circadian clock that generates daily rhythms including in gene expression, metabolism, excitability, and secretion. This talk will focus on how circadian cells synchronize to each other and to the environment. Evidence for the role of key neuropeptides and cell types will be discussed leading to a model where the brain is considered as a clock shop with a master circadian pacemaker coordinating many circadian oscillators to regulate rhythms in hormone secretion, sleep-wake and other daily functions.



Dr. Erik Herzog

Department of Biology,
Washington University

Date: **Friday, October 11, 2019**

Time: **12:00 – 13:00**

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



Contact: International Institute for Integrative Sleep Medicine, University of Tsukuba
029-853-8080 (ext. 8080) | wpi-iiis-alliance@ml.cc.tsukuba.ac.jp