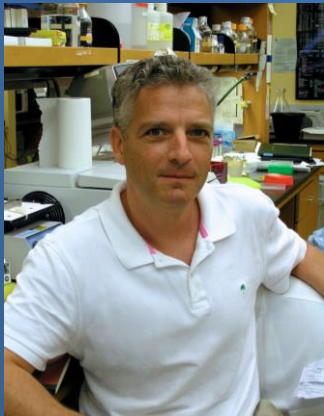


173rd WPI-IIIS Seminar

Homeostasis in Sleep, Feeding and Thermogenesis

Misalignment of feeding rhythms with the light-dark cycle leads to disrupted peripheral circadian clocks and obesity. Conversely, restricting feeding to the active period mitigates metabolic syndrome through mechanisms that remain unknown. Genetic enhancement of adipocyte thermogenesis through ablation of the zinc finger protein 423 attenuates obesity caused by consumption of a high-fat diet during the sleep phase by increasing futile creatine cycling. Circadian control of adipocyte creatine metabolism aligns thermogenesis with the light/dark cycle, and genetic enhancement of adipocyte circadian rhythms ameliorates obesity. Our findings reveal homeostatic mechanisms linking sleep and metabolism.



Dr. Joseph Bass

Division of Endocrinology, Metabolism
and Molecular, Northwestern University

Date: **Wednesday, November 30, 2022**

Time: **11:00 – 12:30**

Venue: **Join us online via WPI-IIIS Teams**

Register now! (deadline Nov. 29)

<https://forms.gle/ncQf2tm1RDcT8RpG8>

*** Teams information will be sent
to registered participants**



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INTERNATIONAL INSTITUTE FOR INTEGRATIVE
SLEEP MEDICINE



Contact: International Institute for Integrative Sleep Medicine, University of Tsukuba
029-853-5857 (ext.5857) | wpi-iiis-alliance@ml.cc.tsukuba.ac.jp