

174th WPI-IIIS Seminar

Sleep/wake-dependent astrocytic plasticity at synapses to orexin and MCH neurons

Astrocytes can regulate behaviours by interacting with neurons within neural circuits. My lab has been investigating the role of astrocytes in regulating glutamatergic and GABAergic transmission to wake-promoting orexin (ORX) and sleep-promoting melanin-concentrating hormone (MCH) neurons. I will present our recent immunoconfocal, electrophysiological, and electron microscopic results suggesting perisynaptic astrocyte plasticity as a cellular mechanism for sleep homeostasis.



Dr. Kazue Semba

Department of Medical Neuroscience,
Dalhousie University, Canada

Date: **Monday, December 26, 2022**

Time: **13:00 – 14:30**

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

***On-site only**

Register now! (deadline Dec. 23)

<https://forms.gle/6DSREqyyNLefPgTk8>

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



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