

212th WPI-IIIS Seminar

Neuromodulator Control of Memory Processing During Sleep

Neuromodulators play a significant role in brain functions, including memory formation. Most previous research on neuromodulators has concentrated on their functions during wakefulness. However, recent recordings of neuromodulator dynamics using GRAB sensors have shown that they also exhibit intricate dynamics during NREM sleep. Research in my lab has aimed to explore how the neuromodulator dynamics contribute to memory processing during sleep. In my presentation, I will share two unpublished findings to highlight the essential roles of acetylcholine and norepinephrine in facilitating hippocampal-dependent memory consolidation during NREM sleep.



Dr. Min Xu

Institute of Neuroscience,
Chinese Academy of Sciences, Shanghai

Date: **Tuesday, November 26, 2024**

Time: **10:00 – 10:50**

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

** On-site participation only*



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