

187th WPI-IIIS Seminar

Roles of the Basal Ganglia in Sleep-wake Regulation

The basal ganglia (BG) function as a cohesive functional entity that regulates motor function, habit formation, and reward/addictive behaviors. Extensive clinical studies have suggested that BG may play an essential regulatory role in physiological sleep and sleep disorders. Based on focused scientific questions spanning from clinical phenotypes, we have identified distinct cell types expressing D1 or A2A receptors in the caudate-putamen and nucleus accumbens, thereby revealing their neuronal circuits governing wakefulness or sleep. These findings significantly contribute to our understanding of sleep-wake regulation.



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Date: **Thursday, September 14, 2023**

Time: **9:00 – 10:00**

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

*** On-site participation only**



IIIS

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