

The 51st Frontier Brain Science Seminar

Sponsored by Research Center for Idling Brain Science (RCIBS)

A Novel Neuronal Circuit that induces Hibernation-like State in Mice

Speaker: **Prof. Takeshi Sakurai**

Faculty of Medicine / International Institute for Integrative Sleep Medicine (WPI-IIIS), University of Tsukuba

Date: **4th September, 2020 (FRI.) 17:00~18:30**

Venue: **Nichi-Iko Auditorium** Center for Innovation in Medical and Pharmaceutical Sciences (U15), 1F

Prof. Takeshi Sakurai (Faculty of Medicine/International Institute for Integrative Sleep Medicine (WPI-IIIS), University of Tsukuba) is a leading researcher in sleep/wakefulness research field. He discovered a neuropeptide "Orexin" that is involved in switching between sleep and wakefulness and is essential for the stabilization of wakefulness state. He also found that loss of orexin-expressing neurons was the cause of the pathological condition of narcolepsy.

Recently, Prof. Takeshi Sakurai and colleagues discovered a new neuronal population (called Quiescence-inducing neurons; Q-neurons) that regulates body temperature and metabolism and succeeded in inducing an artificial hibernation-like state in rodents by activation of Q-neurons (Takahashi TM et al, Nature. 2020).

In this seminar, we are sure he will give us a highly impressive talk about recent findings. We look forward to your participation.

References

Takahashi TM, Sunagawa GA, Soya S, Abe M, Sakurai K, Ishikawa K, Yanagisawa M, Hama H, Hasegawa E, Miyawaki A, Sakimura K, Takahashi M, Sakurai T.
A discrete neuronal circuit induces a hibernation-like state in rodents. Nature. 2020, 583:109-114.

Sponsor: Research Center for Idling Brain Science (RCIBS)
Organizer: Akinobu Suzuki (RCIBS/Dept. of Biochemistry) (Ext, 7228)