

WPI-IIIS Seminar

Special Student Seminar

Effects of daily torpor on sleep-wake states and brain activity in Djungarian hamsters (*Phodopus sungorus*)

Torpor is ubiquitous, yet a highly specialized state of hypometabolism during which organisms display bouts of sustained hypothermia. Djungarian hamsters (*Phodopus sungorus*) seasonally display spontaneous daily torpor.

Sleep and torpor are closely linked and may share a common neurophysiological substrate. This raises questions like - What triggers the onset of torpor from sleep?

This talk will discuss some key methodology and data demonstrating how sleep and torpor are linked. This research may potentially inform efforts to enable human hibernation for long-duration space flight and hypothermic medical treatment.



Ms. Ritika Mukherji

MSc + DPhil Candidate in Neuroscience,
University of Oxford

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

Time: **14:00 – 14:15**

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

*** On-site participation only**



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