

258th WPI-IIIS Seminar

~Mini Symposium~

Sleep processing of aversive experiences in the hippocampus

Aversive experiences generate memories that link emotional significance to the context in which they occurred. Their stabilization occurs in part during sleep, mediated by coordinated neural activity across brain regions. The hippocampus shows a functional differentiation along its dorsal–ventral axis, with the dorsal hippocampus encoding contextual information and the ventral hippocampus involved in emotional processing. How these regions interact during sleep to support emotional memory processing remains poorly understood. Using electrophysiological recordings in rats, we examined neural activity following rewarding and aversive experiences. We found that aversive experiences are preferentially reactivated during sleep through coordinated dorsal–ventral hippocampal activity.



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Date: **Tuesday, August 4, 2026**

Time: **16:30 – 17:15**

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

*** On-site participation only**



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