

EINLADUNG

Kolloquium
Wintersemester 2022 / 2023

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hält am Dienstag, den **18.10.2022**, um 16:15 Uhr, im Biologicum, Max-von-Laue-Str. 13, Campus Riedberg, Hörsaal 1 einen Vortrag über,
„All animals sleep - do all animals dream?“

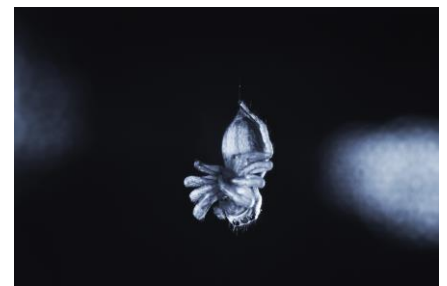


A provocative and likely unsolvable question that may make some people shake their heads, but what even is “a dream” from an evolutionary and ecological perspective?

If “dreams”, whatever their expression may be, have functions in memory consolidation, learning and sensory processing, can we not expect all animals to experience some version of dreaming? There is consensus on the universality of sleep across the animal kingdom, however, REM (rapid eye movement) sleep, a sleep phase associated with intense dreaming in humans, has traditionally

been considered unique to the complex brains of mammals and birds. Findings of REM-like sleep in cephalopods as well as my recent discovery of potential REM sleep in jumping spiders call for a deeper inquiry into what REM sleep is, how conserved it is evolutionarily and what the basal functions of REM sleep are.

In this talk, I will present my discovery of a REM sleep-like state in spiders and discuss its potential functions from an ecological and evolutionary perspective with speculations on whether spiders might experience dreams.



Einladende: Jun.-Prof. Dr. Lisa M. Schulte