



ONSA/CBIR セミナー

Neural Representations Across Time and Space in the Hippocampus of Freely Flying Bats

演者

Michael Yartsev 先生

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日時

2023年7月20日(木) 16:30 開始 (1時間程度)

会場

セミナー中止のお知らせ

Yartsev 先生は急性腰痛のため来日延期となりました。本セミナーは誠に残念ながらキャンセルさせていただきます。

講演要旨

Yartsev 研究室では、コウモリの空間的、社会的、音響的行動に焦点を当てて、海馬における3次元空間表現など神経基盤を研究しています。(Liberti, Nature 2022; Dotson, Science 2021 など) <https://www.michaelyartsev.com/>

Our lab seeks to understand the neural basis of natural spatial behaviors in mammals. To do so, we take a neuroethological approach that leverages the specialization of the bat (*Rousettus aegyptiacus*) for 3D spatial movement and in particular, its ability to elegantly navigate at high spatial precision during high-speed flight and across different sensory conditions. In parallel, we pioneer a suite of cutting-edge technologies that make it possible to study the behavior and neural circuits in freely flying bats in ways not previously possible. In this talk, I will focus on the neural representation in the hippocampus of flying bats across space and time. I will discuss findings addressing how the hippocampus represents spatial information during aerial navigation on both short (milliseconds/seconds) and long (days/weeks) timescales and from single individuals to groups.

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