

# СЕМИНАР «МОЛЕКУЛЯРНЫЙ МОЗГ»

22 января 2019 года

Время: 16:00 – 17:00

Место: ИБХ РАН, Малый зал  
ул. Миклухо-Маклая, д. 16/10

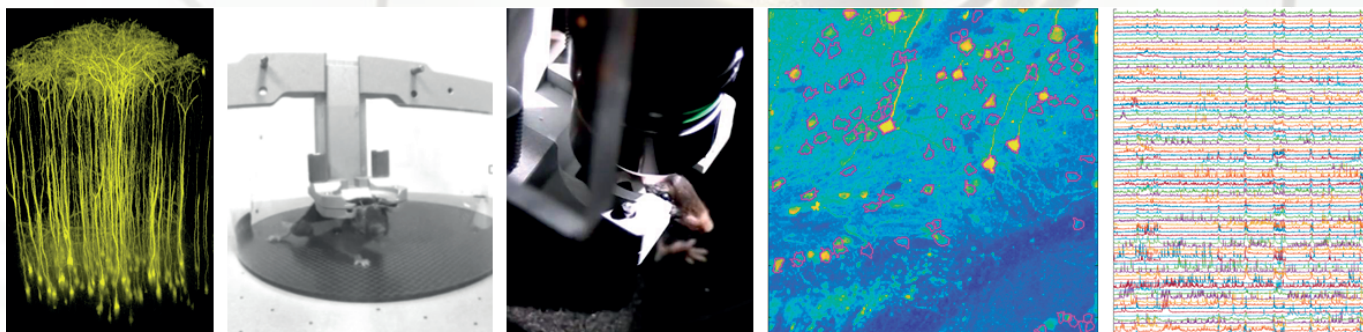
## Sub-cellular microscopic imaging in the brain of awake behaving mice



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Microscopic analysis of brain cell morphology and function traditionally required immobilization of the mouse via full-body constraint or general anesthesia. Using innovative methodologies such as air-lifted home cage, it is now possible to visualize individual brain cells and subcellular structures (such as dendritic spines or mitochondria) in the brain of awake mice. Moreover, by tracking the animal's locomotion during the imaging experiment, we can correlate behavioral patterns with activation of specific neuronal circuits. In this seminar, we will present general principles of the "awake microscopy" and discuss several examples from recently published and unpublished work utilizing this methodology.



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