ELSC Seminar: Eran Stark

December 5, 2013

On the topic of: "Mechanisms of local circuit dynamics in freely moving animals"

ELSC cordially invite you
to the lecture given by:

Eran Stark
NYU Neuroscience Institute

On the topic of:

"Mechanisms of local circuit dynamics in freely moving animals"

The lecture will be held on Thursday, December 5, 2013
at 17:00, at ELSC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

Abstract:

Much of what we know about how neurons interact and form ensemble activity patterns comes from recordings in cell cultures, brain slices, and anesthetized animals, yet dynamics in the intact brain of a behaving animal might differ. I will describe an approach to the study of local circuit dynamics in freely-moving animals, namely the combination of high-density extracellular recordings coupled with multi-site/multi-color optogenetic stimulation, combined with in-vivo pharmacology. This approach, applied to the rodent neocortex and hippocampus, yielded surprising insight into mechanisms of multiple phenomena, including spiking regime resonance, the generation of high-frequency oscillations, and spike phase precession.
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