ELSC Seminar: Amos Gdalyahu

March 19, 2015

On the topic of: "Cognition at the circuit level? in vivo studies?"

ELSC cordially invite you
to the lecture given by:

Amos Gdalyahu
Department of Neurobiology, David Geffen School of Medicine, University of California at Los Angeles

On the topic of:
"Cognition at the circuit level? in vivo studies?"

The lecture will be held on Thursday, March 19, 2015
at 17:00, at ELSC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

Abstract:
My research aims to reveal the cellular basis of perception and of flexible behaviors. So far I have focused on perception in WT and in autism mouse models and found that:
1. learning an association between a neutral stimulus and an aversive stimulus decreases the number of neurons responding to the conditional stimulus in the primary sensory cortex while the response strength of the neurons still responding increases.
2. a mutation highly associated with autism decreases synaptic connectivity in the sensory cortex due to a deficit in stabilization of new neuronal circuits. I plan to continue these studies and to merge them when I test the hypothesis that rewiring in the frontal cortex is necessary to express new learned responses, and that a deficit in rewiring at the frontal cortex causes inflexible behavior.

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