ELSC Seminar: Shlomo Wagner

March 12, 2015

On the topic of: ?Some dance to remember, some dance to forget: molecular and neuronal mechanisms underlying social recognition memory?

ELSC cordially invite you
to the lecture given by:

Shlomo Wagner
Sagol Department of Neurobiology, Faculty of Natural Sciences
University of Haifa, Israel

On the topic of:

?Some dance to remember, some dance to forget: molecular and neuronal mechanisms underlying social recognition memory?

The lecture will be held on Thursday, March 12, 2015
at 17:00, at ELSC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

Abstract:

The ability to recognize individual animals of the same species and to distinguish them from other individuals is the basis for all mammalian social organizations and relationships. This ability, termed social recognition memory, can be explored in mice and rats using their innate tendency to investigate novel social stimuli more persistently than familiar ones. Using this methodology it was found that social recognition memory is mediated by a specific neural network in the brain, the activity of which is modulated by several molecules such the neuropeptides oxytocin and vasopressin. In the lecture I will present several works recently conducted by us, which aim to reveal the molecular and neuronal mechanisms involved in social recognition memory and the consequences of their malfunction. Specifically, we will discuss: 1) mechanisms of synaptic plasticity in the MeA and their modulation by the neuropeptides oxytocin and urocortin. 2) The failure of this system in Shank3-knockout rats, a new rat model of autism. 3) The modifications which are induced in this system by acute social isolation at the molecular, electrophysiological and behavioral levels.

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