ELSC Seminar: Lior Cohen - Jun. 22nd, 2017 at 17:00

June 22, 2017

The Parental Brain - Synaptic Plasticity in the Auditory Cortex

ELSC cordially invites you to the lecture given by:

Lior Cohen
Sagol Department of Neurobiology, Haifa University

On the topic of:

The Parental Brain - Synaptic Plasticity in the Auditory Cortex

The lecture will be held on Thursday June 22nd, 2017 at 17:00

at ELSC: Silberman Bldg., 3rd Wing, 6th Floor,

Edmond J. Safra Campus

Light refreshments served at 16:45
Abstract:

The more we learn about sensory processing in the neocortex, the more it becomes evident how strongly social factors influence processing and storage of information by synaptic plasticity of cortical circuits. To shine light on the underlying mechanisms of synaptic plasticity during natural experiences in the adult life, we are studying how ques emitted by the newborn affect primary sensory areas in the parental neocortex. We are using pup-retrieving behavior to study the impact of pup calls on the structure and function of pyramidal neurons in the auditory cortex of mice. Specifically, we are investigating if and how cortical circuit wiring changes during acquisition of parental care.

To achieve this goal we are expressing functional and structural indicators in cortical pyramidal neurons. This allows us to assess chronically the long-term structure and function of single cells during acquisition of parental care.

In my talk I will present our current findings related to compartmentalization of pyramidal neurons synaptic plasticity in the parental brain.

Tags: Events 2016-2017 Seminars