ELSC seminar: Itamar Kahn Thu. 7/4, 17:00

April 7, 2016

On the topic of: Corticostriatal disruption in NF1 revealed by functional connectivity MRI in awake mice

ELSC cordially invite you to the lecture given by:

Itamar Kahn, Ph. D.

Department of Neuroscience
The Ruth and Bruce Rappaport Faculty of Medicine
Technion - Israel Institute of Technology

On the topic of:
Corticostriatal disruption in NF1 revealed by functional connectivity MRI in awake mice

The lecture will be held on Thursday, April 7, 2016
at 17:00, at ELSC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

Abstract:

In this talk I will describe our efforts over the past few years to develop fMRI tools to study functional connectivity in the awake mouse. I will focus on a disease model of a developmental genetic syndrome, neurofibromatosis type 1 (NF1), that is linked to autism and attention deficit hyperactivity disorder (ADHD). Using intrinsic functional connectivity MRI we were able to identify disruption in cortico-cortical and cortico-striatal connectivity, implicating increased excitability of the striatal spiny neurons and identifying a novel cellular target that can potentially alleviate the cognitive phenotype of NF1 pediatric patients. I will conclude with a discussion of implications to autism and ADHD and will briefly describe our present efforts towards behaving mouse fMRI.

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