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June 21, 2012

On the topic of: Ongoing spontaneous activity dynamics of large neural circuits in zebrafish larvae

ELSC & ICNC cordially invite you
to the lecture given by:

Germán Sumbre
Director of Research Ecole Normale Superieure, Paris

On the topic of:

"Ongoing spontaneous activity dynamics of large neural circuits in zebrafish larvae"

The lecture will be held on Thursday, June 21, 2012
at 17:00, at ELSC-ICNC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

Abstract:

In a state of sensory deprivation, sensory areas in the brain remain highly active. This activity, once interpreted as irrelevant noise, has been found to exhibit highly coherent spatiotemporal structures.

To understand the biological meaning of these ongoing activities we are using the zebrafish larva as the experimental model which enables monitoring the activity of large portions of the nervous system with single-cell resolution in an intact behaving vertebrate.

Our preliminary results suggest that the ongoing spontaneous tectal activity shows a biological relevant structure that may help increase the signal-to-noise ratio for stimulus detection in low-contrast or cluttering backgrounds.
It is now widely accepted that deciphering the enigma of the brain is the most challenging intellectual endeavor of the 21st century, "The Century of the Brain" - Join our quest and become a friend of ELSC.

Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

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