ELSC-ICNC Seminar: Ronen Segev

June 13, 2013

On the topic of: "Visual Search in the Archer Fish"

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

Ronen Segev
Ben Gurion University

On the topic of:

"Visual Search in the Archer Fish"

The lecture will be held on Thursday, June 13 2013
at 17:00, at ELSC-ICNC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

Abstract:

One of the most important tasks the visual system has to solve is the issue of visual search, that is, the detection of a specific and important object such as a food item or predator in the visual environment. This issue of visual search is critical for the visual behavior of almost every animal and it is no wonder that much scientific effort was devoted to understanding this subject. Earlier studies were done mainly with mammals and have explored the connection between the information processing properties of cells in the visual cortex, such as orientation and direction selectivity, to the animal's ability to perform a visual search. Clearly, visual search is wide spread across the animal kingdom and deeper understanding of visual search and the computation needed for it can be benefitted by studying visual search outside the mammalian lineage. I will present experiments showing the ability of the archer fish to perform visual search and discuss the possibility that cells in the optic tectum, the main visual area in the fish brain, can be the basis for information processing during this task.
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