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.
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.

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