ELSC-ICNC Seminar: Stephen J. Eglen

November 22, 2012

On the topic of: "Theoretical models of the development of the nervous system"

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

Stephen J Eglen
Cambridge Computational Biology Institute, University of Cambridge

On the topic of:

"Theoretical models of the development of the nervous system"

The lecture will be held on Thursday, November 22, 2012 at 17:00, at ELSC-ICNC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

Abstract:

In this talk I will highlight the utility of theoretical models in understanding two keys steps in the development of the visual system. In the first part of the talk, I describe the structural development of the retina; in particular, how neurons arrange themselves into semi-regular spatial patterns. In the second part, I describe potential mechanisms by which cells in the retina might project to the brain in a topographic manner. I will close by highlighting the role that retinal patterning may or may not influence patterns in cortical orientation preference maps ('pinwheels').
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