ELSC-ICNC Seminar: Alex Binshtok

November 8, 2012

On the topic of: "Follow the Pain: Somatotopically-Based Approach to Study Mechanisms of Detection, Transmission and Perpetuation of Pain"

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

Alex Binshtok
Department of Medical Neurobiology, Institute of Medical Research Israel-Canada and Center for Research on Pain The Hebrew University Faculty of Medicine, Jerusalem, Israel

On the topic of:

"Follow the Pain: Somatotopically-Based Approach to Study Mechanisms of Detection, Transmission and Perpetuation of Pain"

The lecture will be held on Thursday, November 8, 2012 at 17:00, at ELSC-ICNC: Silverman Bldg., 3rd Wing, 6th Floor, Edmond J. Safra Campus

Light refreshments at 16:45

Abstract:

Pain is a multidimensional and multilevel experience involving complex sensory processing. Chronic pain, in which pain occurs without obvious underlying pathology, represents the highest level of complexity since there is no defined stimulus that initiates the process; yet once initiated, the pain becomes perpetual, due to multilevel plastic changes occurring from the level of primary sensory neurons all the way up to the cerebral cortex. Inadequate comprehensive understanding of pain mechanisms is likely the reason that chronic pain has been implicated as the most prevalent unmet medical need today.

I will discuss the peripheral and central mechanisms triggering plastic changes along the pain-related neuroaxis and will describe the principles of novel approaches we are developing to identify local neuronal circuits involved in processing of pain related information.
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