The School of Psychology invites you to a Special Seminar with

Dr. Nava Levit-Binnun

Sagol Institute for Applied Neuroscience
Muda Center for Mindfulness, Science and Technology
School of Psychology
Interdisciplinary Center Herzliya

On:

"Vulnerable Brains – A Theoretical, Experimental and Practical Approach"

Thursday, December 12th 2013, at 10:00
Faculty room

What makes some people more vulnerable to psychopathology than others? Can we measure brain vulnerability and detect people with vulnerable brains before they develop psychopathology? Can we enhance resilience of developing brains?

In my talk I will discuss the concept of brain vulnerability. First, I will use insights from the emerging field of network neuroscience to propose a theoretical framework for the identification of brains with vulnerability, i.e., those who are less resilient to incoming adverse perturbations. Then I will describe an experimental setup, based on transcranial magnetic stimulation (TMS), electroencephalography (EEG) and complex system analysis methods to measure how healthy and psychopathological brain states react to external perturbations. Finally, I will provide a very brief update of research and dissemination activities done at the Sagol Institute of Applied Neuroscience to advance interventions that can potentially effect the development of brain resilience.

You are invited!