



Max-Wertheimer Minerva Center for  
Cognitive Processes and Human Performance  
and  
The Department of Psychology, University of Haifa

אנו שמחים לארח את

**Prof. Michael Posner**

**Department of Psychology  
Institute of Cognitive and Decision Sciences  
University of Oregon**

***How genes and experience shape attentional networks***

Executive attention involves a brain network that regulates thoughts, behavior and feelings. Although this network is common to all brains Individuals differ in its efficiency. The development of this network takes place over the first 7 years of life. Individual differences in its efficiency of operation correlate with important aspects of self regulation that can be reported by caregivers (effortful control). A number of genes related to different neuromodulators help to account for differences in network efficiency. Parents work to develop this network by helping their children regulate their thoughts and feeling. The quality of these parental interactions relate to how genes influence networks related to attention and activity level (gene X environment interactions). Explicit training can also influence network development and improve cognitive function. The development of neural networks underlying attention provides insights for understanding the neural basis of all cognitive functions.

ההרצאה תתקיים ביום ה' ה-17 למאי 2007 בשעה 12:15  
בחדר הסנאט, בניין אשכול (קומה 29), אוניברסיטת חיפה.  
נשמח לראותכם בין אורחננו.  
המעוניינים באישור כניסה לאוניברסיטה יתקשרו לאתי 04-8249430