

Advances in Translational Neural Imaging and Future Directions in Neural Treatments

GUEST SPEAKER

Prof Joy Hirsch

Columbia University

When: **11th February 2010, 2.30 p.m. to 3.30 p.m.**

Where: **Institute of Microelectronics, Singapore**

11 Science Park Road Singapore Science Park II Singapore 117685

Abstract

This lecture will cover a basic introduction to neural imaging leading to multiple translational advances in medical treatments. Specific topics will include neural imaging advances for the diagnosis and treatment of autism, anxiety and depression, disorders of consciousness, rehabilitation, obesity and eating disorders, and chronic pain. Cross modal integration of imaging, computational, and behavioural methods will be highlighted.

Speaker Biography



Prof Joy Hirsch is the Program Director for Imaging and Cognitive Sciences and Professor of Functional NeuroRadiology, Neuroscience, and Psychology at the Departments of Radiology and Psychology and Center for Neurobiology and Behavior at Columbia University.

Prof Hirsch is a neuroscientist/psychologist who has ten years experience in innovative functional imaging. Presiding over the Functional Magnetic Resonance Imaging Center, Prof Hirsch has established and directs a research center focused on medical applications, education, and the study of brain, behaviour, and therapy-induced cortical effects utilising the developments in functional Magnetic Resonance Imaging (fMRI). Prof Hirsch has a joint appointment in the Department of Radiology and the Center for Neurobiology and Behavior, and her laboratory includes a large number of graduate students and postdoctoral students from the graduate school.

Prof Hirsch joined Columbia from Memorial Sloan-Kettering Cancer Center and the Weill College of Medicine at Cornell University where she founded the fMRI laboratory and pioneered the introduction of brain-mapping procedures for neurosurgical planning. Using fMRI, her laboratory made fundamental contributions to the understanding of sensation and perception, language and the cognitive processes, and brain regions that are modified by specific drugs. These initial studies were built upon research done by Prof Hirsch as a professor at Yale University School of Medicine, where she focused on the cortical mechanisms directly involved in human visual processing, serving as a foundation to connect the advantages of fMRI to ongoing and new research directions at Columbia University.

Registration

Pre-registration is required. Closing date is 9th February 2010. To register, please log on:

http://easstar.eventshub.sg/ems_wb_Details.aspx?CallID=28&EventID=120637

Location Map

