

Invited Speaker Seminar



Title:

“How Can the Explosion of Functional Brain Imaging Data be Integrated?”

Speaker:

Robert L. Savoy, Ph.D.

Director of Functional MRI Education, Martinos Center for Biomedical Imaging
Massachusetts General Hospital
Harvard University

Host:

Dr Michael Chee

Principal Investigator, Cognitive Neuroscience Laboratory

DATE	VENUE	TIME
Tuesday, 24 June 2008	Duke-NUS Graduate Medical School Singapore Block 1, Classroom 7 2, Jalan Bukit Merah	4.30pm to 5.30pm

Abstract:

As is well known, there has been an explosion in the number of peer-reviewed scientific research publications based on the expanding collection of functional brain imaging technologies. This growth creates challenges for quality control in individual studies, as well as the more daunting task of integrating the information that is emerging from this research. The speaker will discuss a number of approaches to these issues, both concrete and speculative.

Savoy, R.L. “History and Future Directions of Human Brain Mapping and Functional Neuroimaging”, (2001) *Acta Psychologica*, 107:9-42.

Savoy, R.L. “Functional MRI”, in *Encyclopedia of the Brain*, Ramachandran (Ed). Academic Press (2002).

Cox, D. & Savoy, R.L. “Functional magnetic resonance imaging (fMRI) ‘Brain reading’: detecting and classifying distributed patterns of fMRI activity in human visual cortex”, (2003) *NeuroImage*, 19(2):261-270.

Savoy, R.L. “Experimental Design in Brain Activation MRI: Cautionary Tales”, (2005) *Brain Research Bulletin* 67:361-367.

Savoy, R.L. “Using Small Numbers of Subjects in fMRI-Based Research”, (2006) *IEEE Engineering and Medicine and Biology Magazine*, March/April: 52-59. [2006, 25(2):52-59]

Biography:

Dr. Savoy received his academic training in applied mathematics at MIT (B.S. 1971; M.S. 1975) and experimental psychology at Harvard University (Ph.D. 1980). This period included 10 years of work at Polaroid Corporation’s Vision Research Laboratory, after which he joined the newly formed Rowland Institute for Science, under the direction of the late Edwin Land, in 1981. In 1991 he first learned of the revolutionary work being conducted at the Massachusetts General Hospital’s Nuclear Magnetic Resonance (NMR) Center, using magnetic resonance imaging (MRI) to detect changes in neural activity (via the associated hemodynamic changes in blood flow, blood volume, and blood oxygenation). In 1993 Dr. Savoy joined that group and became the Director of Functional MRI Education in 1994. He has conducted fMRI training workshops regularly at the MGH NMR Center several times per year since 1994, attracting more than 1000 researchers from around the world. In addition, he has run similar programs at conferences and at other institutions in the United States, Europe, Asia and Australia. Dr. Savoy’s fMRI-based research interests are wide-ranging, including temporal resolution of functional MRI, stereopsis, language, American Sign Language, decision making, and multivariate analysis. Dr. Savoy continues to teach fMRI workshops at both MGH and other institutions around the world, as well as serving as a research consultant for various investigators. He is also Director of a new Multi-Modal Short Course that is part of the Biomedical Imaging Education initiative at the Athinoula A. Martinos Center for Biomedical Imaging, associated with MGH, MIT, and Harvard.

All are welcome

Duke-NUS Graduate Medical School Singapore

2, Jalan Bukit Merah, Singapore 169547

www.gms.edu.sg

Bus Service & Map

Duke-NUS Graduate Medical School Singapore



Legend

- B** Public Bus Stops
- P** Nearest Public Car Parks
- Mass Rapid Transit (MRT)
- Shuttle Bus (Pick-up / Drop-off Points)
 - Monday - Friday : 8.00am to 6.50pm
 - Saturday : 8.00am to 2.00pm
- Main Entrance to Duke-NUS

- Walking Distance:
- Outram MRT (EWL) to Duke-NUS : 950m
 - Outram MRT (NEL) to Duke-NUS : 800m

Bus Stop	Bus Services
B1 Duke-NUS GMS Bus Stop	61, 124, 143, 147, 166, 167, 196, 197, 961
B2 Duke-NUS GMS Bus Stop	147, 167, 196, 197, 961
B2a Outram Station (East-West-Line)	33, 63, 75, 851, 970
B2b Opposite Outram Station	33, 63, 75, 851, 970



Duke-NUS Graduate Medical School Singapore

2 Jalan Bukit Merah Singapore 169547

General Enquiries : (65) 6516 7666 Fax : (65) 6224 6242 Email : info@gms.edu.sg Website : www.gms.edu.sg