

Program for Brain Imaging Center Research Day - December 10th, 2003

Location: 5101 Tolman Hall, UC Berkeley Campus.

8.30 BREAKFAST for visitors, speakers and moderators

9.00 WELCOME - Mark D'Esposito

9.10 SCANNER STATUS REPORT - Ben Inglis

SENSORY AND MOTOR SYSTEMS

9.30 Local spatial attention causes widespread shifts in V1 BOLD retinotopic tuning - Kathleen Bradley

9.45 fMRI retinotopy using temporal frequency modulated stimuli - Ariella Popple

10.00 The role of the cerebellum in olfaction: concentration-dependent sniff modulation - Joel Mainland

10.15 Intensity coding in primary olfactory cortex - Brad Johnson

10.30-11:00 MORNING BREAK (coffee and breakfast items)

COMBINING METHODOLOGIES

11.00 Methods of integrating fMRI and TMS: Current and future options - Tim Verstynen

11.15 - 11:45 Methods of integrating fMRI and ERP: Current and future options - Cathrine Dam and Brian Miller

11.45 Methods of integrating fMRI and pharmacological probes: an example using a dopaminergic agonist - Sasha Gibbs

LUNCH 12.00 - 1:15

CLINICAL STUDIES

1.30 Neural correlates of selective interference for faces in working memory: Implications for studying schizophrenia - Jong Yoon

1.45 Prefrontal-premotor circuitry for learning arbitrary conditional visuomotor associations: Implications for studying addiction - Charlotte Boettiger

2:00 Age-related changes in brain activation patterns during working memory and long-term memory - Jeff Cooney

2:15 An fMRI study of working memory in adolescents with attention deficit hyperactivity disorder - Margaret Sheridan

2:30 Diffusion tensor imaging and tractography of traumatic brain injury - Leslie Shupenko & Kate Shannon.

2:45 BOLD responses to hypercapnia and neural activity in aging and stroke - Dan Handwerker

3.00 - 3.30 AFTERNOON BREAK (coffee and cookies)

fMRI SIGNAL PROCESSING and OTHER METHODS

- 3.15 Functional connectivity of the motor network at rest and at task - Felice Sun
- 3.30 Functional connectivity during working memory maintenance - Jesse Rissman

HIGHER ORDER COGNITION

- 3.45 Stimulus coincidence and perceptual fusion in the crossmodal integration of speech - Lee Miller
- 4.00 Top-down modulation of stimulus-specific visual association cortex - Adam Gazzaley
- 4.15 Pattern detection in prefrontal cortex and basal ganglia: an fMRI study of implicit motor sequence learning - Susan Landau
- 4.30 Changes in frontal and inferotemporal cortices accompanying category expertise - Joe DeGutis
- 4.45 Neural mechanisms involved in emotional learning - Christine Hooker

5.00 CLOSING REMARKS Bob Knight