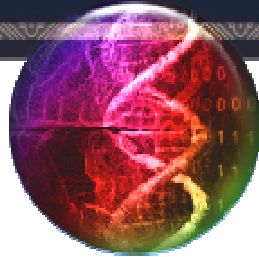


Center for
**Computational
Biology (CCB)**



Presents

Sergi G. Costafreda

BRC Research Fellow, Institute of Psychiatry, King's College London

Cynthia H. Y. Fu

Senior Clinical Lecturer, Institute of Psychiatry, King's College London

Thursday, April 16, 2009 at 11 AM

LONI DIVE Theater, 635 Charles E. Young Drive South, Suite 225

***Meta-analysis, Mega-analysis and Patient Classification:
fMRI Tools and Applications***

Abstract:

A plethora of group differences have been reported in structural and functional neuroimaging findings between psychiatric groups and healthy controls. However, the reliability of these observations and their potential as neurobiological diagnostic and prognostic markers are still in doubt. Dr. Costafreda will present methodological approaches to establish reliability and biomarker potential. Meta-analysis, which provides a measure of the reliability across neuroimaging studies, and mega-analysis, which allows the aggregation of power across large-scale, multi-site or databased, individual studies, will be discussed. These methods will be exemplified through a large-scale meta-analysis of functional imaging of emotional studies and a mega-analysis of twins with schizophrenia and bipolar disorder. Dr. Fu will present our approach to the quantification of the predictive potential of neuroimaging measurements at the individual level, which will be exemplified through the development of MRI-based biomarkers for diagnosis and prediction of clinical response in depression.

For information, please contact Ivo Dinov at 310.206.2101

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