Brain Mapping Center

SEMINAR SERIES

Sponsored by the UCLA Brain Mapping Center Faculty

The focus of these talks is on advancing the use of brain mapping methods in neuroscience with an emphasis on contemporary issues of neuroplasticity, neurodevelopment, and biomarker development in neuropsychiatric disease.

Hosted By: Shantanu Joshi, PhD, Neurology, UCLA

"What functional connectivity can tell us about illness states, mechanisms of treatment, and clinical outcomes in obsessive-compulsive"

Jamie D. Feusner, MD

Professor, Psychiatry and Biobehavioral Sciences, UCLA
Director, Adult OCD Intensive Treatment Program
Director, Eating Disorders and Body Dysmorphic Disorder Research Program

Ultimately, the foremost clinical neuroscience goals for understanding the neurobiology of obsessive-compulsive disorder (OCD) are to improve treatment or for early identification and intervention. Initial neuroimaging studies converged on findings of frontostriatal hyperactivity, which normalize with treatment. More recent whole-brain functional neuroimaging, morphological mega-analyses, and data-driven analyses support a larger, extended network model of OCD. Yet, it is still unclear if observed patterns are state or trait indices and whether treatments need to directly target these aberrant circuits or extended networks to be effective. Moreover, heterogeneity of phenomenology, comorbidity, and treatment response question whether group-averaged approaches will optimally translate to useful clinical knowledge. In this context, we will discuss our recent research using functional connectivity to elucidate network-level and regional patterns underlying illness mechanisms and mechanisms of treatment with cognitive-behavioral therapy (CBT). In addition, we will present recent work on predicting individual responses to CBT using multivariate functional connectivity and machine learning.

May 2, 2019 11:00am - 12:00pm

Neuroscience Research Building (NRB 132)
635 Charles E. Young Dr. South

For more information contact: Mary Susselman (310-206-4291, mwalker@mednet.ucla.edu)