

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: Marco Iacoboni, MD, PhD, Psychiatry and Biobehavioral Sciences, UCLA

Patient H.M. and the Human Brain Library



Jacopo Annese, PhD

Director, The Brain Observatory
San Diego

Understanding the functional architecture of the brain is limited by our ability to integrate data and knowledge acquired at different spatial scales. Moreover, synthetic approaches based on templates and population-based atlases have failed so far to provide a realistic measure of variability.

We propose an alternative approach that combines cardinal neuroimaging modalities (MRI and microscopy) with digitally-powered brain banking to study individual anatomical traits. Each dataset is composed of complete series of tissue slices through the brain and registered images (2D and 3D) acquired at multiple levels of resolution. Neuroimaging data is augmented by subjective information, including behavioral (neuropsychological), biographical and lifestyle information; a first step towards personalized preclinical brain imaging research.

Archiving, preservation and distribution of tissue and neuroimaging resources leverage established object and data curation strategies as well as web technologies that guarantee open-access and maximize the utility of each donated brain. This strategy will be illustrated by PATIENTHM.org a publicly available portal for all data and knowledge generated in the context of the fascinating and controversial postmortem examination of the brain of the amnesic patient H.M.

May 3, 2018 11:00am - 12:00pm

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

For more information contact: Mary Susselman (mwalker@mednet.ucla.edu)