

# 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

## **Electroconvulsive therapy pulse amplitude and clinical outcomes**



### **Chris Abbot, MD, MS**

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Chief of the Neuromodulation Division  
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Electroconvulsive therapy (ECT) remains the gold-standard treatment for patients with depressive episodes. During a typical four-week ECT series, most depressive episodes remit, and formerly suicidal or psychotically depressed patients will resume their premorbid levels of functioning. Independent of the antidepressant effect of ECT, many patients experience debilitating but transient cognitive effects such as attention and memory deficits. Both the stimulus delivery (electrode placement, pulse amplitude, and pulse width) and seizure induction appear to work in synergy, but the underlying mechanism of action for successful response has yet to be fully elucidated. This presentation will discuss the clinical and neurocognitive impact of targeted medial temporal lobe engagement as a function of pulse amplitude, one of several variable factors influencing the ECT charge.

**November 1, 2018 11:00am - 12:00pm**

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

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