



## **Future Applications for Deep Brain Stimulation: Using Tractography to Explore Surgical Targets for Bipolar Disorder**



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**Friday, February 21st, 2020, 7:50 am, Cohen Auditorium,**

**NIHB E 02 - 230 South Frontage Road**

**Course Director/Host: Jason Gerrard, MD, PhD/Murat Gunel, MD**

This course will fulfill the licensure requirement set forth by the State of Connecticut

#### **ACCREDITATION**

The Yale School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

#### **NEEDS ASSESSMENT**

Deep brain stimulation (DBS) is a neurosurgical therapy with the potential for widespread clinical applications, of which neurosurgeons should be aware. Novel technologies, such as tractography, can result in improved strategies to aid in the discovery of surgical targets for DBS. There is an unmet need for the neurosurgical treatment of medically refractory psychiatric diseases, which have the potential to be helped with DBS.

#### **LEARNING OBJECTIVES**

At the conclusion of this activity, participants will learn:

1. To improve current understanding of deep brain stimulation (DBS) therapy and its potential applications.
2. To demonstrate the value of tractography in understanding brain networks, and how this can be used as a targeting tool in DBS.
3. To propose a possible surgical target for DBS for the treatment of Bipolar disorder.

#### **DESIGNATION STATEMENT**

**The Yale School of Medicine designates this educational activity for 1 AMA PRA Category 1 Credit(s)<sup>TM</sup>. Physicians should claim credit commensurate with the extent of their participation in the activity.**

#### **FACULTY DISCLOSURES**

*Jennifer Sweet, MD - Yes*

*Jason Gerrard, MD, PhD - Yes*

*Murat Gunel, MD - none*

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