

# Neural Prosthesis Seminar

## How Does DBS Work? Insights From Neurophysiology

Friday, September 15 • 8:30 am

Nord Hall, Room 400  
Case Western Reserve University



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### Abstract

Deep brain stimulation (DBS) is a surgical therapy proven to be highly effective for a variety of neurologic disorders including essential tremor, Parkinson's disease, and dystonia. It is surprising then that considerable mystery remains about the mechanism of action of DBS (i.e., understanding how DBS "works" to ameliorate symptoms). This talk will review recent studies of the effects of DBS on neuronal activity, including some performed in the lab, with the goal of showing how DBS may work by attenuating the transmission of abnormal "pathologic" neuronal activity across the affected brain circuits.

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