

UTHealth Neuroscience Research Center  
 Current Topics in the Neurobiology of Disease- GS14 1021  
 Fall 2023

***Neuromodulation and Brain-Computer Interfaces (BCI)***

*Tuesday 12:00 p.m. – 1:00 p.m., in MSB 7.037*

*Open to graduate and medical students, postdoctoral fellows, and residents.*

Lecture date/loc	Speaker	Affiliation	Lecture Title/Topic
29-Aug MSB 7.037	<b>John Seymour, PhD</b>	UTHealth Neurosurgery	Introduction <ul style="list-style-type: none"> <li>• Principles of electrode recording in nervous tissue (spikes, field potentials, CSD, dipoles, lead field theory)</li> <li>• Overview of non-invasive stimulation modalities for SCI, stroke, depression, addiction</li> <li>• Overview of invasive stimulation for epilepsy, SCI, depression, Parkinson's</li> </ul>
	<b>Heather Webber, PhD</b>	UTHealth PSY- Behavioral Sciences	
5-Sept MSB 7.037	<b>Nitin Tandon, MD</b>	UTHealth Neurosurgery	Speech, language, and BCI
12-Sept MSB 7.037	<b>Yosefa Modiano, PhD</b>	UTHealth Neurosurgery	Language mapping using intracranial stimulation in a clinical context
19-Sept MSB 7.037	<b>Kelly Bijanki, PhD</b>	BCM Neurosurgery	Characterizing depression circuits in the brain using intracranial recordings in human neurosurgery patients
26-Sept MSB 7.037	<b>Dimitry Sayenko, MD, PhD</b>	Methodist Neurosurgery	Neuromodulation of spinal sensorimotor networks: Electrophysiology and clinical translations
3-Oct MSB 7.037	<b>Jacob Robinson, PhD</b>	Rice ECE	Toward treating mental health disorders with minimally invasive bioelectronics
10-Oct MSB 7.037	<b>Joao de Quevedo, MD, PhD</b>	UTHealth PSY- Behavioral Sciences	Non-invasive brain stimulation for treatment-resistant depression
17-Oct MSB 7.037	<b>Nicholas Murphy, PhD</b>	BCM PSY- Behavioral Sciences	Combined TMS and EEG: holding a candle to the darkness of mixed brain signals
24-Oct MSB 7.037	<b>Mohammed “Moh” Milad, PhD</b>	UTHealth PSY- Behavioral Sciences	Learning not to fear: where and how in the brain
31-Oct MSB 7.037	<b>Fabricio Do Monte, DVM, PhD</b>	UTHealth NBA	Emerging trends in optogenetic manipulation
7-Nov MSB 7.037	<b>Sandipan Pati, MD</b>	UTHealth Neurology	Intracranial Neuromodulation in Epilepsy
14-Nov			No Lecture – SfN Conference
21-Nov			No Lecture – Thanksgiving
28-Nov MSB 7.037	<b>Chong Xie, PhD</b>	Rice ECE	Ultraflexible, minimally invasive BCI
5-Dec MSB 7.037	<b>Kristin Kostick-Quenet, PhD</b>	BCM Center for Medical Ethics and Health Policy	Ethics