“New Advances in Neural Interface Technology: Brain-Controlled Reanimation of Paralyzed Limbs”

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Friday, October 25th, 2019, 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
Millions of people live with permanent neurological deficits and better treatments to restore function are necessary. Neural interface technology has many potential applications for muscle activation that are not widely used or appreciated. Brain-computer interface technology to control of neuroprosthetic devices is underdeveloped with no current FDA-approved clinical applications.

LEARNING OBJECTIVES
At the conclusion of this activity, participants will learn:
1. Describe current approaches to central and peripheral neural interfaces and how these might be used to restore functional independence after neurological injury.
2. List the major impediments to activities of daily living reported by people living with paralysis and how these might be circumvented using neurotechnology.
3. Outline the benefits of bi-directional sensorimotor brain-computer interface as potential control mechanism for neuroprosthetics such as functional electrical stimulation of peripheral nerves.

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

FACULTY DISCLOSURES
Jonathan Miller, MD - none
Jason Gerrard, MD, PhD – none
Murat Gunel, MD – none
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