December 17  
Tuesday, 12:30 pm  
Weekly Colloquium  
Billings Building  
Rosedale Conference Room

**Speaker: John H. Martin, Ph.D.**  
Professor, Molecular, Cellular and Biomedical Sciences  
Behavioral and Cognitive Neuroscience  
The City College of New York  
New York, NY

**Host: Yutaka Yoshida, Ph.D.**

For more information, please contact  
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**Motor Cortex and Spinal Cord Neuromodulation to Promote Motor Function After Injury**

**Abstract**

Dr. John (Jack) Martin is a Medical Professor at the City University of New York School of Medicine and the City College of New York’s Center for Discovery and Innovation. He received his Ph.D. in neurophysiology from Columbia University and received postdoctoral training at Rockefeller and Columbia Universities. Dr. Martin’s laboratory studies the neural circuits for movement from the dual perspectives of development and repair. His neural repair research leverages neuromodulatory strategies to promote durable plasticity to repair corticospinal system damage after injury and to restore movement control. His laboratory has discovered that CST neurons can be promoted to sprout axons and make functional connections after injury by increasing their activity, using electrical stimulation. This stimulation, in turn, promotes recovery of function after a brain or spinal cord injury.

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