

### Parkinson's Disease and Deep Brain Stimulation Therapies: Practice and Theory

Friday, October 31 • 8:30 am to 4 pm

#### 8:30 Welcome

**Kenneth Kaushansky, MD**, Senior Vice President, Health Sciences; Dean, School of Medicine, Stony Brook Medicine

**Dennis W. Choi, MD, PhD**, Director, Stony Brook University Neurosciences Institute;  
Professor and Chair, Department of Neurology, Stony Brook Medicine

#### Morning Session

**Moderator: Lorna Role, PhD**, Co-Director, Stony Brook University Neurosciences Institute; Professor and Chair,  
Department of Neurobiology & Behavior, Stony Brook Medicine

#### 8:45 Keynote Speaker

*Neuromodulation: Current and Future Applications*

**Ali Rezai, MD**, Director, Neuroscience Program; Associate Dean of Neuroscience, Stanley D. and Joan H. Ross  
Chair in Neuromodulation; Professor of Neurosurgery and Neuroscience; Director, Center for Neuromodulation,  
The Ohio State University

9:45 *An Update on Parkinson's Disease Treatment*

**Guy Schwartz, MD**, Assistant Professor, Department of Neurology, Stony Brook Medicine

10:30 *Theatre Training as Effective Therapy in Parkinson's Disease: Preliminary Findings*

**John Lutterbie, PhD**, Professor, Chair, Department of Art; Chair, Department of Theatre Arts;  
Co-Director of the Center for Embodied Cognition, Stony Brook University

11:15 *Deep Brain Stimulation in the Blink of an Eye*

**Craig Evinger, PhD**, Professor, Neurobiology & Behavior and Ophthalmology, Stony Brook Medicine

Noon **Group Discussion**

#### 12:15 Lunch and Posters

#### Afternoon Session

**Moderator: Ramin Parsey, MD, PhD**, Co-Director, Stony Brook University Neurosciences Institute;  
Professor and Chair, Department of Psychiatry; Director of PET Research, Stony Brook Medicine

1:30 *Bilateral Functional Changes in Somatosensory Thalamus After Lateral Spinal Cord Hemisection*

**Lorne Mendell, PhD**, Professor, Department of Neurobiology & Behavior, Stony Brook Medicine

2:15 *Nanotechnology Solutions for Neural Control*

**J. Andre Melendez, PhD**, Associate Head of the Nanobioscience Constellation; Professor of Nanobioscience,  
SUNY College of Nanoscale Science and Engineering

3:00 *Using Rat Models to Study the Neurobiological Basis for Sex Differences in the  
Non-motor Symptoms of Parkinson's Disease*

**Mary Kritzer, PhD**, Professor, Department of Neurobiology & Behavior, Stony Brook Medicine

3:45 **Group Discussion**

#### 4:00 Closing Remarks

**Raphael P. Davis, MD**, Co-Director, Stony Brook University Neurosciences Institute; Professor and Chair,  
Department of Neurosurgery, Stony Brook Medicine

