Neural Prosthesis Seminar

The Neural Prosthesis Seminar Series debuted in 1988. Since its debut, this Series has sponsored numerous distinguished Investigators and Researchers, working in areas that include functional neuromuscular & electrical stimulation, cortical prosthesis, neuromodulation, brain computer & machine interfaces and other related areas.

The Neural Prosthesis Seminar Series is a public educational forum with prominent presenters active in all areas of FES related research. The series brings together researchers, scientists, clinicians and students in the Greater Cleveland Research Community to encourage the exchange of scientific information on global emerging neuro-modulation and neuro-stimulation topics.

The Neural Prosthesis Seminar Series is hosted by the Cleveland FES Center in partnership with our co-sponsors.

Neural Prosthesis Seminar Series Schedule 2014-2015

Neurological Institute
University Hospitals Neurological Institute in Cleveland - the leading institute in Northeast Ohio - offers the full range of neurological and neurosurgical services delivering innovative, integrated and individualized care to patients with diseases affecting the nervous system.

Center for Neurological Restoration
Cleveland Clinic's Center for Neurological Restoration - focused on a single goal of advancing treatment through ongoing basic and clinical research - is nationally recognized for expertise in medical management and innovations in the surgical treatment of neurological and psychiatric disorders.

Department of Physical Medicine & Rehabilitation
Physical Medicine and Rehabilitation offers full-service programs for head injury, spinal cord injury, stroke, amputation, burns, oncology, major multiple trauma, neurologic conditions, arthritis, orthopaedics, and geriatrics.

Department of Neurosciences
School of Medicine
The mission of the Neurosciences Department is to carry out world class research that advances our knowledge of how the nervous system develops and functions and how it is altered by disease, injury, genetic, and environmental factors.

Department of Biomedical Engineering
School of Engineering
The department of Biomedical Engineering's mission is to promote human health through education and research that bridges the gap between medicine and engineering. The faculty and students play leading roles ranging from basic science discovery to the creation, clinical evolution, and commercialization of new technologies, devices and therapies.

APT Center
As a VA Center of Excellence, clinicians, investigators, and staff work together to bring the clinical needs of veterans to the attention of the engineers and scientists pursuing new and emerging technologies in order to apply them for the purposes of reducing disability, improving daily functions, and enhancing quality of life.

Neural Prosthesis Seminar Series

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Cleveland Ohio 44106
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www.FEScenter.org
E-mail: info@FEScenter.org

Neural Prosthesis Seminar Series

Schedule 2014-2015
**Neural Prosthesis Seminar Series**  
**2014-2015**

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Time</th>
<th>Location</th>
<th>Seminar Co-Sponsor</th>
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<tr>
<td>09/19/2014</td>
<td>Jeffrey Capadona, PhD</td>
<td>8:30 AM</td>
<td>Biomedical Research Building 105 CWRU</td>
<td>APT Center</td>
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<td>10/17/2014</td>
<td>Nader Pouratian, MD, PhD</td>
<td>8:00 AM</td>
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<td>Neurological Institute</td>
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<td>11/21/2014</td>
<td>Lonnie Shea, PhD</td>
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<td>Department of Biomedical Engineering</td>
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<td>12/12/2014</td>
<td>Mario Romero-Ortega, PhD</td>
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<td>Philip Sabes, PhD</td>
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<td>02/13/2015</td>
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<td>Department of Neurosciences</td>
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<td>03/13/2015</td>
<td>Leo Cohen, MD</td>
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<td>Department of Physical Medicine and Rehabilitation</td>
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<td>Kevin Tracey, MD</td>
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<td>Biomedical Research Building 105 CWRU</td>
<td>Center for Neurological Restoration</td>
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**Jeffrey Capadona, PhD**
Dr. Jeffrey Capadona is an Assistant Professor of Biomedical Engineering at Case Western Reserve University, as well as a Research Health Scientist at Louis Stokes Cleveland VA Medical Center. The long-term goal of Dr. Capadona’s research is to develop advanced materials for neural interfaces which will seamlessly assimilate within the neural tissue to facilitate sustained molecular level connections with individual neurons.

**Bin He, PhD**
Dr. Bin He is a Distinguished McKnight University Professor of Biomedical Engineering, and Medtronic-Bakken Chair for Engineering in Medicine, at the University of Minnesota. His research interests include neuroengineering, functional biomedical imaging, cardiovascular engineering, and medical devices.

**Nader Pouratian, MD, PhD**
Dr. Nader Pouratian is an Assistant Professor in the Department of Neurosurgery at UCLA. Dr. Pouratian specializes in surgeries to restore and preserve brain function, in addition to treating peripheral nerve and brachial plexus injuries and tumors. His research focuses on developing novel interventions and technologies for neurological restoration.

**Lonnie Shea, PhD**
Dr. Lonnie Shea is a Professor of Chemical and Biological Engineering at Northwestern University whose research interests are tissue and cellular engineering, drug delivery, gene therapy, and signal transduction. Given the complexity inherent in tissues, Dr. Shea’s laboratory is currently focusing on an approach termed “Systems Tissue Engineering”, indicating the need to develop systems capable of presenting combinations of factors that drive tissue growth as well as identify the appropriate combination of factors.

**Mario Romero-Ortega, PhD**
Dr. Mario Romero-Ortega, University of Texas at Arlington, is an Associate Professor of Bioengineering. Dr. Ortega is interested in nerve injury and repair with the long-term goal of uncovering the molecular bases of neurite growth, axon guidance, and target recognition, both during development and after injury. His research projects aim at uncovering the basic cellular and molecular mechanisms underlying the biology of nerve growth, and the implementation of improved nerve repair strategies.

**Leonard Simeone, MD, PhD**
Dr. Leonard Simeone is the Founding Director of the Institute for Regenerative Medicine at Drexel University. His research focuses on the development of biological scaffolds for functional tissue regeneration.

**Kevin Tracey, MD**
Dr. Kevin Tracey is President of the Laboratory of Biomedical Science at The Feinstein Institute for Medical Research, and Professor of Molecular Medicine & Neurosurgery at Hofstra North Shore-LIJ School of Medicine. His research focuses primarily on inflammation, the physiological and immunological response to infection and injury, and the mechanism by which neurons control the immune system.