Cell & Tissue Engineering Strategies to Create 'Living Therapeutics' to Facilitate Nervous System Regeneration

Kacy Cullen, PhD, Director, Center for Neurotrauma, Neurodegeneration & Restoration, University of Pennsylvania School of Medicine. Dr. Cullen’s research program operates at the intersection of Neural Engineering, Neurotrauma and Regenerative Medicine. Neurotrauma objective is to apply engineering principles to increase our understanding of the causative mechanisms and pathophysiological responses following traumatic injury to the nervous system with specific attention is given to neural injury biomechanics and mechanisms of acute biophysical cellular/tissue damage. Neural Engineering and Regenerative Medicine objective is to develop neurotechnology to mitigate trauma-induced deficits or augment the body’s capacity for regeneration with focus given to neural tissue engineering strategies and the development of biohybrid neurobiological-electrical interface technology.

February 22, 2019 | 9:00AM | 105 Biomedical Research Tower | Coffee & Bagels!