

# WAYNE STATE UNIVERSITY

## The WSU Program for Traumatic Brain Injury Research

presents a Special Topic Seminar

### Robert H. Lipsky, Ph.D.

Director, Translational Research, Department of Neurosciences,  
Inova Health System, Falls Church, VA

Affiliate Professor of Neuroscience, Krasnow Institute for Advanced Study, George Mason University, Fairfax, VA  
Professor of Neuroscience, Virginia Commonwealth University, Inova Campus; Uniformed Services University of the Health  
Sciences, Bethesda, MD

## “Genetic and Epigenetic Responses to Traumatic Brain Injury”

**Abstract:** The nature of TBI has acute and chronic outcomes for those who survive and many times, for caregivers. Over time the chronic process of injury that impacts multiple organ systems may then become the cause(s) of subsequent disease. The functional role of human genetic variation and the genome’s interaction with the environment (epigenetics) in clinical outcome following TBI is just beginning to take shape. I will present findings from candidate gene studies in clinical populations punctuated by data from mechanistic studies using molecular and cellular biology approaches. Taken together, I want to underscore the fact since TBI is a heterogeneous condition, management of the TBI patient will take a multidisciplinary approach, incorporating gene-based, protein, and metabolic profiling into a clinical framework, drawing from the specialties of neurosurgery, neuroradiology, neurology, and psychiatry in order to advance our ability to more effectively treat brain injury and to predict outcomes.

**Date:** Friday September 13, 2013

**Time:** 12:00pm – 1:00 pm

**Location:** 3125 Scott Hall

540 E. Canfield, Detroit, MI 48201

For further information contact: Charbel Habib at 313-966-7433 Email: [chabib@med.wayne.edu](mailto:chabib@med.wayne.edu)

