**THE WINIFRED MASTERSон BURKE MEDICAL RESEARCH INSTITUTE**

**WEEKLY COLLOQUIUM**

**TUESDAY, 06/05/2012, 12:30 PM**

**ROSEDALE CONFERENCE ROOM**
**BILLINGS BUILDING**

**ORCHESTRATING NEUROLOGICAL RECOVERY, STEM CELLS, ASTROCYTES, tPA AND miRNA IN CONCERT**

**Michael Chopp, Ph.D.**

*Vice Chairman, Department of Neurology*

*Scientific Director, Neuroscience Institute*

*Zolton J. Kovacs Chair in Neuroscience Research*

*Distinguished Professor, Physics, Oakland University, Rochester, MI*

*Henry Ford Hospital*

**Research Interests**

Dr. Chopp's research has primarily focused on: 1) the cellular and molecular biology of ischemic cell injury, 2) the pathophysiology of stroke, traumatic brain injury, peripheral neuropathy, multiple sclerosis, and glioma 3) combination thrombolytic and neuro and vascular protective therapies for stroke, 4) mechanisms of neuroprotection, 5) cell-based and pharmacological neuro-protective therapies for stroke, traumatic brain injury and neurodegenerative disease, 6) molecular and cellular mechanisms underlying neurogenesis and angiogenesis and the induction of brain plasticity leading to functional and behavioral recovery after neural injury, 7) treatment of glioma, 8) and magnetic resonance imaging. Dr. Chopp has over 500 peer reviewed publications and has given 357 plenary lectures and invited presentations. He has chaired National Institutes of Health (NIH) study sections and has often served as a consultant to government agencies, the U.S. National Institutes of Health, and the pharmaceutical industry.

**Recent Publications:**


This figure presents DWI, T2WI-Chronic, ANN, and ISODATA maps for 3 different patients. In ISODATA maps the lesions are clustered into 2 to 3 different signatures [from top to bottom: (5, 6, and 8), (2, 3, and 4), (3 and 4)]. Signature number indicates the chance of tissue recovery. The higher the signature values, the lower the chance of recovery.

FOR MORE INFORMATION ON THE WEEKLY COLLOQUIA, CONTACT VACCUMANNO@BURKE.ORG

BURKE MEDICAL RESEARCH INSTITUTE, 785 MAMARONECK AVE, WHITE PLAINS, NY 10605