

*Faculty and Topics May Change Prior to the Beginning of the Course*



## MARINE BIOLOGICAL LABORATORY



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## 2009



## Faculty and Topics

**RESEARCH UPDATE IN  
NEUROSCIENCE FOR  
NEUROSURGEONS**

**October 17-24, 2009**

**Marine Biological Laboratory  
Woods Hole, MA**

### Course Directors

**Allan H. Friedman**  
**Robert M. Friedlander**

### Co-Directors

**Isaam A. Awad, Bruce Andersen,**  
**Henry Brem, Robert Dempsey,**  
**Charles Hodge, Jr., Edward Oldfield**

Andersen, Bruce / Galbraith, Jim  
Idaho Neurological Institute / NIH  
Squid Lab

Awad, Issam  
Northwestern University  
“Philosophy of Science and Neurosurgery”  
and “Translational and Integrational Research:  
Cavernous Angioma as a Paradigm”

Bednar, Martin  
Pfizer  
“Academic-Pharma Collaborations: A Critical  
Alliance” and “Neurorestoration:  
The Next Horizon”

Benowitz, Larry  
Harvard University  
“Rewinding the Injured CNS”

Benzel, Edward  
Cleveland Clinic  
“ Science, Clinical Practice, and the Quest of  
Academic Excellence”

Bernstein, Kerry  
Vermont State Guard  
“On The Evolution of an Electronic Species”

Born, Richard  
Harvard Medical School  
“Modularity and Integration in the Primate  
Visual Cortex”

Brem, Henry  
Johns Hopkins University  
“Brain Tumor Therapy”

Burns, Mark  
Georgetown University  
“Acute CNS Injury and Chronic Neurodegenerative  
Disease: Common Pathways and  
Therapeutic Targets”

Chiocca, Nino  
Ohio State University  
“Translational Therapeutics for Brain Tumors:  
From the Lab to the Clinic and Back”

Connolly, E. Sander  
Columbia University  
“Neuroinflammation/Adhesion Molecules”

D’Armore, Patricia  
Harvard Medical School  
Schepens Eye Institute  
“Angiogenesis and Neoplasia”

Dempsey, Robert  
University of Wisconsin  
“Research and Balance in an Academic  
Neurosurgery Career. Getting started: How do I  
Write a Grant or paper?”

Dirks, Peter  
University of Toronto  
“Probing the Relationship between Stem Cells and  
Brain Cancer”

Edgerton, V. Reggie  
UCLA Medical Center  
“Activity Dependent Mechanisms that  
Enhance Sensorimotor Function Following  
Spinal Cord Injury”

Fehlings, Michael  
University of Toronto  
“Repair and Regeneration of the Injured Spinal  
Cord: From Molecule to Man”

Friedlander, Robert  
Harvard Medical School  
“Mechanisms of Cell Death in Neurologic Diseases”

Gunel, Murat  
Yale University  
“Molecular Genetics and Biology of Intracranial  
Aneurysms and Cavernous Malformations”

Haglund, Michael  
Duke University  
“Optical Imaging of Epileptiform Activity:  
From Brain Slices to the Operating Room”

Harbaugh, Robert  
Penn State University  
“Biostatistics and Clinical Trial Design”

Hochberg, Leigh  
Harvard Medical School  
“Intracortically-based Brain-Computer Interfaces”

Lichtman, Jeff  
Harvard Medical School  
“ Connectomics”

Lozano, Andres  
University of Toronto  
“Adjusting the Activity in Human Brain Circuits”

**Parada, Luis Keynote Speaker**  
University of Texas Southwestern  
“Gliomas in Mice”

Reese, Thomas  
NIH  
“History of the MBL”

Setton, Lori  
Duke University  
“Tissue and Cellular Engineering Approaches to  
Regeneration and Repair of the Intervertebral Disc”

Silver, Jerry  
Case Western Reserve University  
“Functional Regeneration Beyond the Glial Scar”

Simard, Marc  
University of Maryland  
“The SUR1-regulated NC(Ca-ATP) Channel – a New  
Player in CNS Ischemia”

Sinclair, David  
Harvard Medical School  
“Genes and Small Molecules that Extend Lifespan”