RESEARCH UPDATE IN NEUROSCIENCE FOR NEUROSURGEONS
DIRECTORS AND FACULTY
OCTOBER 23-30, 2010

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Lecture Title: “Mechanisms of Cell Death in Neurologic Diseases”

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Lecture Title: “Philosophy of Science and Neurosurgery” and “Translational and Integrational Research: Cavernous Angioma as a Paradigm”

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Lecture Title: “Brain Tumor Therapy”

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Lecture Title: “Research and Balance in an Academic Neurosurgery Career. Getting started: How do I Write a Grant or Paper?”

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Lecture Title: “Rewinding the Injured CNS”

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Lecture Title: “Science, Clinical Practice, and the Quest of Academic Excellence”

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Lecture Title: “On The Evolution of an Electronic Species”

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Lecture Title: “Acute CNS Injury and Chronic Neurodegenerative Disease: Common Pathways and Therapeutic Targets”

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Lecture Title: “Translational Therapeutics for Brain Tumors: From the Lab to the Clinic and Back”

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Lecture Title: “Traumatic Brain Injury: Lessons Learned from the Bench”

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Lecture Title: “Activity Dependent Mechanisms that Enhance Sensorimotor Function Following Spinal Cord Injury”

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Lecture Title: “Optical Imaging of Epileptiform Activity: From Brain Slices to the Operating Room”

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Lecture Title: “Biostatistics and Clinical Trial Design”

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Lecture Title: “Intracortically-based Brain-Computer Interfaces”

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Lecture Title: “MicroRNAs – Key Players in CNS Biology and Tumorigenesis”

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Lecture Title: “Neurovascular Mechanisms of Injury and Repair after Stroke”

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Lecture Title: “Adjusting the Activity in Human Brain Circuits”

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Lecture Title: “Signals and Systems in the Human Brain: Water and Electricity”

Professor Richard I. Morimoto, Ph.D.
Bill and Gayle Cook Professor of Biology, Professor of Biochemistry, Molecular Biology and Cell Biology, and Director of the Rice Institute for Biomedical Research at Northwestern University.
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Lecture Title: “The Stress of Misfolded Proteins in Aging and Neurodegenerative Disease”
Edward H. Oldfield, M.D.
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Lecture Title: “Von Hippel-Lindau Disease: Studies on Biology, Natural History, Patient Management in a Familial Tumor Suppressor Syndrome”

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Lecture Title: “Medulloblastoma - from a Difficult Past to a Promising Future”

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Lecture Title: “Polymer Nanoparticles for Controlled and Targeted Delivery of Agents to the Brain”

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Lecture Title: “Functional Regeneration Beyond the Glial Scar”

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Lecture Title: “The SUR1-Regulated NC(Ca-ATP) Channel – a New Player in CNS Ischemia?”

Peter L. Strick, Ph.D.
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Co-Director, Center for the Neural Basis of Cognition
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Lecture Title: “Basal Ganglia and Cerebellar ‘Loops’ with the Cerebral Cortex: Circuits for Movement, Cognition and Affect”

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Lecture Title: “Epigenetics in Huntington’s Disease: Implication for Therapeutics”

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Keynote Speaker Lecture Title: “Regulation of Cell Death: From Apoptosis to Necroptosis”