RESEARCH UPDATE IN NEUROSCIENCE FOR NEUROSURGEONS (RUNN) COURSE
DIRECTORS AND FACULTY
October 30 – November 6, 2021

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Introduction: Welcome, Introduction, and Course Objectives

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Lecture Title: “Translating Ideas into Projects, Projects into Grant/Papers and Ultimately into Patients”

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Director, Laboratory Experience: “Squid Lab”

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Lecture Title: "Philosophy of Science in Relevance to Neurosurgery" and "Deconstructing a Neurosurgical Disease: A Path to Therapy for Cerebral Cavernous Malformation"

Henry Brem, M.D.
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Harvey Cushing Professor of Neurosurgery
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Lecture Title: “Brain Tumor Therapy”

Robert Dempsey, M.D.
Manucher J. Javid Professor & Chairman
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Lecture Title: “Inspiration and Neurosurgical Research - How to Start a Project, Grant or Paper”

FACULTY

Wael Asaad, M.D., Ph.D.
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The Warren Alpert Medical School of Brown University
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Lecture Title: “Cyborgs IRL: Emerging Strategies and Applications for Neuromodulation”

Larry Benowitz, Ph.D.
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Lecture Title: “Rewiring the Injured CNS”
Edward Benzel, M.D.
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Lecture Title: “On Becoming an Academician”

Kerry Bernstein, Program Manager
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Lecture Title: "The Patient is Healthcare, and the Disease is Electronic”

Edward Boyden, Ph.D.
Y. Eva Tan Professor in Neurotechnology at MIT
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Lecture Title: “Tools for Understanding and Repairing the Brain”

David Corey, Ph.D.
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Lecture Title: “Gene Therapy for Neurological Disorders”

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Lecture Title: “The Art and Science of Lesioning the Brain: From Lobotomies to Focused Ultrasound”

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Lecture Title: “Genetics of Cerebrovascular Diseases”
V. Reggie Edgerton, Ph.D.
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Lecture Title: “Neuromodulatory and Activity Dependent Mechanisms that Enhance Sensorimotor and Autonomic Functions Following Several Neuromotor Disorders”

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Lecture Title: “Epilepsy”

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Lecture Title: “PD-1 Cancer Immunotherapy”

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Lecture Title: “The Search for Truth in Spine Surgery: RCTs, Registries, and now AI?”

Leigh Hochberg, M.D., Ph.D.
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Department of Neurology, Massachusetts General Hospital
Professor of Engineering, Brown University
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Director, Center for Neurorestoration and Neurotechnology
Rehabilitation Research & Development Service, Dept. of Veterans Affairs
Lecture Title: “BrainGate: Clinical Trials in Intracortical Brain-Computer Interfaces for the Restoration of Communication and Mobility”

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Lecture Title: “von Hippel-Lindau Disease: From Bedside to Bench to Bedside”

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Lecture Title: “Clinical Trials of Gene Therapy for Neurologic Diseases”

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Lecture Title: “Invisible Physics for Neurosurgeons: Hydrocephalus and Epilepsy”

Rajiv Midha, MSc, MD, FRCSC, FAANS, FCAHS
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Lecture Title: “Peripheral Nerve Regeneration and Repair: Possibilities and Challenges”

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Lecture Title: “High Grade Glioma Invasion: Clues from the Leading Edge”

Marc Simard, M.D., Ph.D.
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Lecture Title: "The SUR1-TRPM4 Channel - a Critical Player in CNS Ischemia and Trauma"

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Lecture Title: “Registries in Neuroscience: How to Use Them to Change Care” and “The Neurosurgeon Data Scientist”

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Lecture Title: “Interneuron Transplantation: Basic Science and Prospective Clinical Applications”
Ziv Williams, M.D.
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Lecture Title: “Functional Neurosurgical Approaches for Restoring Motor and Cognitive Function”