Course Description
The Emory Neurosciences Initiative symposium, *Therapeutic Frontiers in Acute Central Nervous System Injury*, will provide participants with a view of the future of the clinical care of stroke, spinal cord injury, and head trauma, presented by a world-renowned faculty. The program will be divided into three scientific sessions, followed by a feature clinical panel comprised of Emory leaders who will discuss the state-of-art in acute and rehabilitative clinical care for patients with brain injury today. The symposium aims to increase understanding of major emerging fronts in CNS injury research and practical clinical care, in both acute care and rehabilitation settings. The presentations will outline cellular mechanisms underlying neural injury and repair, key therapeutic targets and approaches to clinical translation from academic and industry perspectives. While fundamentally forward-looking, the symposium will also provide information of immediate value to active health care professionals, encompassing a panel and audience discussion of current best clinical practices for acute neurological and neurosurgical management as well as for neurorehabilitation.

Target Audience
This symposium is designed for physicians, health professionals and neuroscientists interested in acute central nervous system injury and rehabilitation, with a focus on ischemic and hemorrhagic stroke, spinal cord injury and head trauma.

Continuing Medical Education (CME) Certification
The Emory University School of Medicine designates this educational activity for a maximum of 7 AMA PRA Category Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity. The Emory University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Educational Objectives
After attending this symposium, participants should be able to:
- Describe the public health problem of traumatic CNS injury and acute stroke
- Understand emerging ideas about how acid-sensing channels, oxidative stress, circuit based events, the neurovascular unit and cortical spreading depolarization contribute to neuronal injury after CNS injury
- Describe hurdles to translation of bench research on neuroprotection and repair into new clinical therapies
- Understand the importance of biomarkers as a critical factor in the success of translational research in acute stroke
- Understand the current focus of NINDS funded basic, translational and clinical research in the areas of stroke and CNS repair
- Describe methods to develop an academic-community partnership to provide more rapid patient assessment and conduct clinical trials of promising new treatment approaches
- Learn about the cellular response to CNS injury and some novel approaches to promoting neuronal plasticity and recovery after brain or spinal cord injury
  - Appreciate the complexity of patient care and factors that affect short-term and long-term outcome through illustrative clinical cases
- Understand how emerging scientific evidence can guide clinical decision making in patients with CNS injury
- Hear what leading Emory physicians are doing today in the practical management of patients with CNS injury
Fees

- General attendance – Free*
- Those seeking CME credit – $25 per person

* Note: Pre-registration is requested for all participants.

Directions to Emory University campus

Driving directions to the Emory University campus can be found here:
http://www.emory.edu/home/about/visiting/directions.html

Campus Map

For on-campus directions please refer to the map found here:
http://www.map.emory.edu/mappdf/gis_map/MainCampus_Name.pdf

White Hall – Auditorium #208

White Hall is located at 201 Dowman Drive, Atlanta, Georgia, 30322. On the campus map link above, refer to grid location G-9, building #1380. Symposium attendees may park in the Peavine Parking Deck or Emory University Hospital (Valet service). Any fees associated with parking are the responsibility of the attendee.

Parking

Symposium attendees may park in the Peavine parking deck or Emory University Hospital parking deck (valet service). Any fees associated with parking are the responsibility of the attendee.

Hotel Accommodations

Hotel accommodations may be reserved at:
The Emory Conference Center Hotel
1615 Clifton Road
Atlanta, GA 30329
Phone: 404-712-6000
Early hotel reservations are suggested. This hotel is within walking distance to the Emory campus.

Contact Information

For additional information please visit the Emory Neurosciences Initiative website. You may also contact Maryam Carn at 404-727-0680 or Maryam.carn@emory.edu.

Disclaimer

Emory Neurosciences reserves the right to cancel activities prior to the scheduled date if circumstances make it necessary. Each registrant will be notified by mail or e-mail or using the contact numbers provided during registration. In case of activity cancellation, liability of Emory Neurosciences is limited to the appropriate registration fees, which Emory Neurosciences will refund in their entirety. Emory Neurosciences reserves the right to limit the number of participants in a program and is not responsible for any expenses incurred by an individual whose registration is not confirmed and for whom space is not available.
Agenda

9:00 – 9:10 AM
Dennis W. Choi, MD, PhD (Emory University)
Welcome

Session 1: Cellular Mechanisms and Therapeutic Targets

9:10-9:15 AM
Steve Traynelis, PhD (Emory University)
Host Remarks

9:15-9:50 AM
Michael A. Moskowitz, MD (Massachusetts General Hospital)
Cortical Spreading Depolarizations and the Neurovascular Unit: From Mouse to Human

9:50-10:25 AM
Roger Simon, MD (Legacy Health Systems)
Acid Sensing Ion Channels in Brain, a New Therapeutic Target for Stroke

10:25-10:40 AM
Break

Session 2: Clinical Translation and Enhancing Repair

10:40-10:45 AM
Michael Frankel, MD (Emory University)
Host Remarks

10:40-10:45 AM
Walter Koroshetz, MD (National Institute of Neurological Disorders and Stroke)
Current and Future Directions for Translational Research in CNS Injury and Stroke at NINDS

11:20-11:55 AM
Jeffrey L. Saver, MD (UCLA Stroke Center)
Meeting the Challenge of Translational Research in Acute Stroke

11:55 -12:30 PM
Randolph J. Nudo, PhD (University of Kansas Medical Center)
Progress and Discovery in Mechanisms of Repair and Recovery After Stroke

12:30-1:30 PM
Lunch

Session 3: Traumatic CNS Injury

1:30-1:35 PM
Donald Stein, PhD (Emory University)
Host Remarks

1:35-2:10 PM
Edward D. Hall, PhD (University of Kentucky Medical Center)
Toward a More Effective Approach for Inhibiting Reactive Oxygen Species-Induced Oxidative Damage in Traumatic Brain Injury

2:10-2:45 PM
Lisa McKerracher, PhD (LM Consulting)
The Quest for Discovering a Therapeutic Strategy in Acute Spinal Cord Injury

2:45-3:00 PM
Break

Session 4: Clinical Issues and Best Practices

3:00-3:05 PM
Michael Frankel, MD, Professor of Neurology (Emory University)
Host Remarks

3:05-4:50PM
Clinical Panel (Emory University)
Daniel Barrow, MD; Jacques E. Dion, MD; Fadi Nahab, MD; Owen Samuels, MD; Steven L. Wolf, PhD; David W. Wright, MD

4:50-5:00PM
Dennis W. Choi, MD, PhD (Emory University)
Closing Remarks