

# Bruce Lyeth, Ph.D.

<b>Clinical Interests</b>	Dr. Lyeth's research interests focus on the pathophysiology of traumatic brain injury, excitotoxic cascades affecting signal transduction and behavior, and the development of therapeutic interventions for brain injury. Dr. Lyeth's laboratory uses a variety of pharmacological, behavioral and neuroanatomical methods to investigate the neural mechanisms involved in traumatic brain injury pathology. The ultimate goal of this research program is to develop novel clinical therapeutic strategies targeted at reducing the debilitating consequences of traumatic brain injury in patients. Pre-clinical testing of novel therapeutic strategies and compounds are routinely performed in this laboratory. Previous efforts have led to ongoing clinical trials evaluating hypothermia and glutamate receptor antagonists as therapeutic interventions for traumatic brain injury patients. Dr. Lyeth is investigating the role of early astrocyte damage following TBI and the consequences on neuronal cell death, the involvement of the neuropeptide NAAG in brain injury , and the role of HDAC inhibitors in modulating excitotoxicity.
<b>Title</b>	Professor IR
<b>Specialty</b>	Neurological Surgery
<b>Department</b>	Neurological Surgery
<b>Division</b>	Neurological Surgery
<b>Education</b>	Ph.D., Virginia Commonwealth University, Richmond, Virginia, 1986 B.A., Christopher Newport College, Newport News, Virginia, 1974 M.S., Radford College, Radford, Virginia, 1976
<b>Fellowships</b>	Medical College of Virginia, Richmond, Virginia, 1986-1987
<b>Professional Memberships</b>	Editorial Board, Journal of Neurotrauma Member, Executive Council National Neurotrauma Society UCLA Brain Injury Research Center Advisory Board
<b>Honors and Awards</b>	Outstanding Experimental Psychology Graduate Student Award, 1996
<b>Select Recent Publications</b>	Feng JF, Zhao X, Gurkoff GG, Van KC, Shahlaie K, Lyeth BG. Post-traumatic hypoxia exacerbates neuronal cell death in the hippocampus. <i>J Neurotrauma</i> . 2012 Apr 10;29(6):1167-79. Epub 2012 Jan 30. Gurkoff GG, Shahlaie K, Lyeth BG. In vitro mechanical strain trauma alters neuronal calcium

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