

# Jon Poling M.D. Ph.D.

## Curriculum Vitae

### Current Employment:

- Partner, Athens Neurological Associates (ANA) 2001-present
- Medical Director, Athens Regional Medical Center Apheresis Unit 2002-present

### Medical Licensure / Subspecialty Certification

- Certified in MRI/CT interpretation, American Society of Neuroimaging 2006-present
- Diplomate, American Association of Neuromuscular and Electrodiagnostic Medicine 2004-present
- Board Certified, American Board of Psychiatry and Neurology 2002-present
- Georgia License #050051 2001-present
- Maryland License #D00560401 (inactive status) 2000-2001

### Education and Postgraduate Training

- Johns Hopkins University, Department of Neurology/Neurosurgery, Neurology Resident 2001
- INOVA Fairfax Hospital/Georgetown Hospital, Transitional Intern 1998
- Georgetown University School of Medicine, Washington, DC - M.D./Ph.D. 1997
- Woods Hole Marine Biological Laboratory, Woods Hole - MA, Neurobiology Course Summer 1995
- Boston University, Boston, MA - B.A. with Honors, Biology 1991 (cum undergrad GPA- 3.90) 1991

### Professional Memberships

- United Council for Neurologic Subspecialties in Neuroimaging 2006-present
- American Society of Neuroimaging 2004-present
- American Society for Apheresis 2002-present
- American Association of Neuromuscular and Electrodiagnostic Medicine 2001-present
- American Academy of Neurology 1998-present
- American Physiological Society 1996-1998
- Society for Experimental Biology and Medicine 1995-1998
- Society for Neuroscience 1994-1997
- American Medical Association 1991-1995

### Scholarships and Awards

- NIH/NINDS Scholarship for Woods Hole Marine Biological Laboratory summer course in Neurobiology 1995
- Pre-doctoral Intramural Research Training Award (IRTA), NIH/NIAAA 1993-1996
- Medical Scientist Training Award, Georgetown University Full tuition scholarship (MD & PhD) 1991-1997
- Ruggles Scholarship, Georgetown University 1991-1993
- Alpha Epsilon Delta, Boston Univ. 1989
- Dean's List Boston University 1989-91
- Eagle Scout 1988

### Research Experience

- Doctoral thesis study under the co-mentorship of Dr. Stefano Vicini at Georgetown Medical School, and Dr. Norman Salem, Jr. at the National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism, Bethesda MD. (Committee Members: Dr. Michael A. Rogawski, Dr. Norman Hershkowitz, Dr. Toshio Kitazawa, Dr. Norman Salem, Jr., and Dr. Stefano Vicini) 1993-1996
- Summer research fellowship in the laboratory of Dr. John Karanian, Ph.D. at the National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism, Laboratory of Clinical Studies, Bethesda MD 1989-1993
- Senior research dissertation for B.A. with distinction under Dr. Christine Li, Ph.D., Boston University, Department of Biology studying neuropeptides in *C. elegans*. 1990-1991

### Publications / Journal Articles

- Frye, R.E., Poling, J.S., Ma, L.C.K. (2006) Choroid Plexus Papilloma Expansion Over 7 Years in Aicardi Syndrome. *Journal of Child Neurology*, in press.

- Frye, R.E. and Poling J.S. (2006) Reversible posterior leukoencephalopathy syndrome (RPLS) in a patient with sickle cell anemia after blood transfusion. *J Pediatric Hematology/Oncology*, submitted.
- Poling J.S., Frye R.E., Shoffner J, Zimmerman A.W. (2006) Developmental Regression and Mitochondrial Dysfunction in a Child with Autism. *Journal of Child Neurology* 21 (2).
- Poling J.S., Aldrich E. Clinical Cases from Johns Hopkins Neurology: Hemorrhagic Mass Presenting as Seizure. November 2000. Medscape <http://www.medscape.com/viewarticle/430118>.
- Poling J.S., Rogawski M.A., N. Salem Jr., and Vicini S. (1997) Anandamide, an Endogenous Cannabinoid, Inhibits Shaker-related Voltage-Gated K<sup>+</sup> Channels. *Neuropharmacology* 35 (11).
- Poling J.S., Vicini S., Rogawski M.A., and N. Salem, Jr. (1997) Docosahexaenoic Acid Block of Neuronal Voltage-Gated K<sup>+</sup> Channels: Subunit Selective Antagonism by Zinc. *Neuropharmacology* 35 (11).
- Poling J.S., Karanian J.W., Vicini S., and N. Salem Jr. (1995) Time- and Voltage- Dependent Block of Delayed Rectifier Potassium Channels by Docosahexaenoic Acid. *Molecular Pharmacology* 47, 381-390.
- Horvath I., Poling J.S., and J.W. Karanian. (1996) Modulation of Thromboxane Induced Changes in Cerebral Blood Flow by Hydroxylated 22 Carbon Fatty Acids. *Journal of Cerebral Blood Flow*.
- Ph.D. DISSERTATION Poling J.S. (1995) On the Mechanism of Potassium Channel Blockade by Polyunsaturated Fatty Acids and Cannabinoids. Doctoral Dissertation presented to Georgetown University Graduate School of Arts and Sciences on December 20, 1995.
- SENIOR THESIS FOR B.A. WITH DISTINCTION Poling J.S. (1991) Localization of the Neuropeptide FRMF-amide by Immunofluorescence in Mutants of *C. elegans*. Senior Research Thesis, Boston University.
- MEETING PRESENTATIONS (partial listing) Poling J.S. (2006) Vascular Dissections and Chiropractic Manipulation: "A Twist of Fate." St. Mary's Hospital Grand Rounds, Nov 15, 2006, Athens GA.
- Poling J.S. (2005) Wernicke's Encephalopathy as a Complication of Bariatric Surgery. St. Mary's Hospital Grand Rounds, Nov 2, 2005, Athens GA.
- Poling J.S., Rogawski M.A., Vicini S., and N. Salem Jr. (1995) Zinc Modulates Extracellular Fatty Acid Block of Recombinant Voltage-Gated Potassium Channels Expressed in Mammalian Cells. *Soc for Neurosci Abstr* 21, 1833.
- Vicini S, Wang J.F., Poling J.S., and D. Grayson. (1995) Functional and Pharmacological Differences Between Recombinant and Native NMDA Receptors. *Soc for Neurosci Abstr* 21, 86.
- Poling J.S., Rogawski M.A., Vicini S., and N. Salem Jr. (1995) Anandamide, the Putative Endogenous Cannabinoid, is an Open-Channel Blocker of Recombinant Potassium Channels in CL1023 Fibroblasts Stably Transfected with Kv1.2 cDNA. *Society for Experimental Biology and Medicine* 209, 299-302.
- Poling J.S., Vicini S., Rogawski M.A., and N. Salem, Jr. (1995) Blockade of Native and Recombinant Neuronal Voltage-Gated K<sup>+</sup> Channels by Nanomolar Concentrations of Docosahexaenoic Acid: Structure-Activity Relationships and Antagonism by Zinc. *Proceedings of the 2nd Congress of the International Society for the Study of Fatty Acids and Lipids*.
- Frye R.E., Poling J.S. and S. Vicini (1994) Noise Fluctuation Analysis of Pineal Delayed Rectifier Channels and Modification by the Blocker, Docosahexaenoic Acid. *Soc. Neurosci. Abstract* 20, 1525.
- Poling J.S., N. Salem Jr. and S. Vicini. (1994) Docosahexaenoic Acid, the Major Polyunsaturate Found in Neuronal Membranes, is an Open-Channel Blocker of Voltage-Gated Potassium Channels. *Soc. Neurosci. Abstract* 20, 722.
- Karanian J.W., Poling J.S., and N. Salem Jr. (1992) Nutritional Regulation of Platelet and Vascular Smooth Muscle Function: Role of Hydroxylated Lipoxygenase Derivatives. *Proceedings of the 5th Society on Polyunsaturated Fatty Acids*.