

CURRICULUM VITAE

Thien T. Nguyen, M.D., Ph.D.

DEMOGRAPHIC INFORMATION

Appointments

2013 - Present Potomac Neurology, LLP
15200 Shady Grove Road, Suite 202
Rockville, MD 20850

2005 - 7/2013 Assistant Professor
Department of Neurology
Johns Hopkins University School of Medicine
The John G. Rangos Sr. Building
855 N. Wolfe Street, Rm. 241
Baltimore, MD 21205

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Rockville, MD 20850
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Education and Training

Undergraduate

1990 Bachelor of Science in Bioengineering, University of Washington

Doctoral/graduate

1996 Doctor of Philosophy in Bioengineering, University of Washington

1999 Doctor of Medicine, University of Washington School of Medicine

Postdoctoral

1999-2000 Internship in Internal Medicine, Univ. of Washington School of Medicine, Seattle, WA

2000-2003 Neurology Residency, Johns Hopkins Hospital, Baltimore, MD

2003-2004 Neuromuscular / Neurophysiology Fellowship, Johns Hopkins Hospital, Baltimore, MD

2004-2005 Research Fellowship in Dr. John Griffin's Lab, Johns Hopkins Hospital, Baltimore, MD

Professional Experience

2005-Present Assistant Professor, Department of Neurology, Johns Hopkins Hospital, Baltimore, MD

2005-Present Attending physician, Department of Neurology, Johns Hopkins Hospital, Baltimore, MD

2005-Present Attending physician, Department of Neurology, Johns Hopkins Bayview Medical Center, Baltimore, MD

RESEARCH ACTIVITIES

Peer Reviewed Original Science Publications

1. **Nguyen, T.**, Chin, W.C., & Verdugo, P. (1998). Role of $\text{Ca}^{2+}/\text{K}^{+}$ ion exchange in intracellular storage and release of Ca^{2+} . *Nature* **395**, 908-912.
2. **Nguyen, T.**, Chin, W.C., O'Brien, J. A., & Verdugo, P., & Berger, A. (2001). Intracellular pathways regulating ciliary beating of rat brain ependymal cells. *J. Phys. (Lond.)* **531** (1), 131-140 (cover article).
3. Chin, W.C., Quesada, I., **Nguyen, T.**, & Verdugo, P. (2002). Oscillations of pH inside the secretory granule control the gain of Ca^{2+} release for signal transduction in goblet cell exocytosis. *Novartis Found Symp* **248**, 132-141.
4. Lehmann, H., Lopez, P.H., Zhang, G., **Nguyen, T.**, Zhang, L., Kieseier, B.C., Mori, S. & Sheikh, K.A. (2007) Passive immunization with anti-glycan Abs directly inhibits axon regeneration in an animal model. *J. Neurosci.* **27**(1): 27-34
5. DeBoy, C.A., Zhang, J, Dike,S., Shats,I., Jones, M., Reich, D.S., Mori, S., **Nguyen, T.**, Rothstein, B., Miller, R.H., Griffin,J.W., Kerr, D.A, & Calabresi, P.A. (2007) High resolution diffusion tensor imaging of axonal damage in focal inflammatory and demyelinating lesions in rat spinal cord. *Brain* **130**: 2199 - 2210.
6. Milward, E., Kim, K. J., Szklarczyk, A., **Nguyen, T.**, Melli, G., Nayak, M., Deshpande, D., Fitzsimmons, C., Hoke, A., Kerr, D., Griffin, J. W., Calabresi, P. A., Conant, K. (2008). Cleavage of myelin associated glycoprotein by matrix metalloproteinases. *J Neuroimmunol* **193**, 140-148
7. Jones, M., **Nguyen, T.**, DeBoy, C., Griffin, J.W., Whartenby, K.A., Kerr, D.A., and Calabresi, P.A. (2008). Behavioral and pathological outcomes in MOG 35–55 experimental autoimmune encephalomyelitis. *J Neuroimmunol* **199**: 83-93.
8. **Nguyen, T.**, Mehta, N., Conant, K., Kim, K.J., Jones, M., Calabresi, P., Melli, G, Hoke, A., Schnaar, R., Song, H., Ming,G.L., Keswani, S., & Griffin, J. (2009) . Axonal protective effects of Myelin-Associated Glycoprotein. *J Neurosci.* **29**(3): 630-637.
9. Mehta NR, **Nguyen T**, Bullen JW, Griffin JW, Schnaar RL. (2010) Myelin-associated glycoprotein (MAG) protects neurons from acute toxicity using a ganglioside-dependent mechanism. *ACS Chem Neurosci* **1**:215-222.
10. Farah MH, Pan BH, Hoffman PN, Ferraris D, Tsukamoto T, **Nguyen T**, Wong PC, Price DL, Slusher BS, Griffin JW. (2011) Reduced BACE1 Activity Enhances Clearance of Myelin Debris and Regeneration of Axons in the Injured Peripheral Nervous System. *J Neurosci.* **31**(15):5744-54.
11. Pan, BH, **Nguyen, T**, Grunewald, B, Farah, M, Polydefkis, M, McDonald, J, Schramm, LP, Toyka, KV, Hoke, A, Griffin, JW. (2012) The Lateral Thoracic Nerve and The Cutaneous Maximus Muscle – A novel In Vivo Model System For Nerve Degeneration and Regeneration Studies. *Experimental Neurology* **236**(1): 6-18.
12. Chen, E.Y.T, Wang, Y, Mintz, A., Richards, A., Chen, C., Lu, D, **Nguyen, T.**, Chin, WC. (2012) Activated charcoal composite biomaterial promotes human embryonic stem cell differentiation toward neuronal lineage. *J. Biomedical Materials Research Part A* **100** (8):2006-2017.
13. Ewaleifoh, O., Trinh, M., Griffin, J. & **Nguyen, T.** (2012) A Novel System to Accelerate the Pace of Nerve Degeneration in Transgenic Mouse Models of Neuropathies. *Experimental Neurology* **237**: 153-159.
14. Jones, M, **Nguyen, T.**, Ewaleifoh, O., Lesbon, L., Wgartenby, K., Griffin, JW, Calabresi, P. (2012) Accelerated Axon Loss in MOG 35-55 EAE in MAG-/- Mice. *Acta Neuropathologica* (*Accepted*)
15. **Nguyen, T**, Trinh, M., Calabresi, P., Griffin, J.W. Netrin-1 promotes axonal survival. *PLoS One.* (*under peer review*).

16. **Nguyen, T.**, Arroyo, E.J., Scherer, S, and Griffin, JW. □□□□'- Iminodipropionitrile-induced Paranodal Demyelination Disrupts the Molecular Organization of Nodes. *J Neurosci.* (under peer review).
17. Trinh, M., Conant, K., Griffin, J.W, **Nguyen, T.**. Small peptides derived from myelin associated glycoprotein promote axonal survival in cell cultures and animal models. *Nature.* (Submitted).

Inventions, Patents, Copyrights

6/2012 **Nguyen, T.** Methods and Compositions for the Treatment of Axonal and Neuronal Degeneration. Patent pending. 61659159

EDUCATIONAL ACTIVITIES

Educational Publications

Invited review articles

1. **Nguyen, T.** & Kaplan, P. (2008) Nonepileptic paroxysmal disorders in infancy. *Uptodate*
2. **Nguyen, T.** & Kaplan, P. (2008) Nonepileptic paroxysmal disorders in children. *Uptodate*
3. **Nguyen, T.** & Kaplan, P. (2008) Nonepileptic paroxysmal disorders in adolescents and adults. *Uptodate*

Case Reports

1. **Nguyen, T.** (2002). Case 12: A 56-year old man with acute quadriplegia. *Medscape.*

Book Chapters, Monographs

1. **Nguyen T.**, Peter Kaplan. Imitators of Epilepsy. *Epilepsy.* Eds.: C.Q. Le. Ha Noi: Nha Xuat Ban Y Hoc (Vietnamese). (2005).
2. Griffin, T, Hoke, A., **Nguyen, T.** Axonal Degeneration and Rescue. Textbook of Neural Repair and Rehabilitation, 2nd ed. Eds.: M. Selzer, S. Clarke, L. Cohen, P. Duncan, and F. Gage. Cambridge: Cambridge University Press. (2006).
3. **Nguyen T.** & Kaplan, P. "Behavioral Aspects of Nonconvulsive Status Epilepticus." Behavioral Aspects of Epilepsy, 1st ed. Ed.: Steven Schachter. Demos Medical Publishing. (2007)
4. **Nguyen, T.**, Ewaleifoh, O, Chen, E. Pharmacology of Demyelinating Diseases. The Neuropsychology of Psychopharmacology. Eds.: Chad Noggle and Raymond Dean. Springer Publishing. (2012).

Books, Textbooks

1. **Nguyen T.** & Kaplan, P. Clinical Electrophysiology: The Handbook for Neurology Consultants. Wiley Publishing, 2010.

CLINICAL ACTIVITIES

Certification

Medical, other state/government licensure

2004 - Present Maryland State Medical License D62240

Boards, other specialty certification

2005 American Board of Psychiatry and Neurology - #53185

2007 American Board of Psychiatry and Neurology, sub-board in Clinical Neurophysiology - #1742

Clinical (Service) Responsibilities

- 2005 - Present Neuromuscular clinic, attending
- 2005 - Present EMG/Nerve conduction clinic, attending
- 2005 - Present Neuromuscular Consult service, attending
- 2005 - Present Inpatient Neurology Consult Service, attending
- 2007 - Present Muscle and nerve biopsy, attending
- 2010 - Present Neurology resident clinic, attending
- 2010 - Present Intraoperative Monitoring, attending

Clinical Program Building/Leadership

- 2007- Present Muscle and Nerve Biopsies Service at Johns Hopkins Bayview Medical Center. I initiated and developed the muscle and nerve biopsies service at Johns Hopkins Bayview Medical Center.
- 2007- Present Myositis Center at Johns Hopkins Bayview Medical Center. With Drs. Andrew Mammen, Lisa Christopher-Stine and Sonye Danoff, I have been a vital team member in the development of the successful Johns Hopkins Myositis Center.
- 2010- Present Intraoperative monitoring service at Johns Hopkins Hospital. I initiated the peripheral nerve testing and nerve inching services for the intraoperative monitoring group and neurosurgeons at Johns Hopkins Hospital.

ORGANIZATIONAL ACTIVITIES

Editorial Activities

Editorial Board appointments

- 2007 - Present Associate Editor, Vietnamese Medical Journal

Journal Reviewer

- 2008 - 2009 Faculty of 1000 Medicine Reviews
- 2009 - 2010 Pediatric Research
- 2009 Annals of Neurology
- 2009 - Present Journal of Neurology
- 2010 - Present Brain
- 2012 PLoS ONE
- 2012 Experimental Neurology

Advisory Committees, Review Groups/Study Sections

- 2010 Grant Reviewer, National Multiple Sclerosis Society Australia

Professional Societies

- 2005 - Present Member, Peripheral Nerve Society
- 2005 - Present Member, Society for Neuroscience
- 2006 - Present American Academy of Neurology
- 2013 - Present American Neurological Association

Conference Organizer, Session Chair

- 1/8/11 Session Chair, The Friends of the Axons, the Schwann Cell, and Jack Griffin Scientific Symposium, Johns Hopkins Hospital, MD
- 1/10/11 Session Chair, National Multiple Sclerosis Society, New York, NY
- 6/25-29/11 Conference Organizer, Peripheral Nerve Society, Biennial meeting, Potomac, MD

RECOGNITION

Awards, Honors

- 1990-1999 Medical Scientist Training Program Award, Univ. of Washington School of Medicine
- 1992-1995 Molecular Biophysics Fellowship
- 2005 Peripheral Nerve Society Fellowship

Invited Talks, Panels

- 2/23/01 Invited Speaker, “Cocaine Associated Stroke,” Maryland Neurological Society, Baltimore, MD
- 6/16/05 Invited speaker, “Neurofilament Phosphorylation Is Not Required For The Maintenance Of Axonal Survival By MAG,” Peripheral Nerve Society, Il Cocco, Italy
- 4/17/07 Invited speaker, “Axonal Protection and Myelin-Associated Glycoprotein (MAG),” Johns Hopkins Young Investigator Symposium, Baltimore, MD
- 10/10/07 Invited speaker, “MAG Promotes axonal stability and Prevents Axonal Degeneration in *In Vivo* and *In Vitro* Models,” National Multiple Sclerosis Society, Orlando, FL
- 9/10/07 Invited speaker, “Axonal Protective effects of Myelin-Associated Glycoprotein,” Clinical Neuroscience Seminar at Johns Hopkins Hospital, Baltimore, MD
- 9/10/10 Invited Lecture, “Myelination and Axonal Protection,” Univ. of California, Merced, CA
- 1/10/11 Invited Speaker and session Chair, “Axonal Protection,” National Multiple Sclerosis Society, New York, NY
- 3/15/11 Invited Lecture, “Netrin-1 and Axonal Protection,” Muscular Dystrophy Association, Las Vegas, NV

OTHER PROFESSIONAL ACCOMPLISHMENTS

- 2009 - Present Vietnam Overseas Speaker Outreach (VOSO) Speaker ((sponsored by US Vietnam Education Foundation) with expertise in neurology and neuroscience – Give lectures and/or seminars to higher educational institutions and research centers in Vietnam