

Principal Investigator/Program Director (Last,First,Middle). **Haas, Kevin, Frederick**

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

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|---|--|--|-----------|------------------------|
| NAME Haas, Kevin F. | | POSITION TITLE Assistant Professor of Neurology | | |
| eRA COMMONS USER NAME haaskf | | | | |
| EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>) | | | | |
| INSTITUTION AND LOCATION | | DEGREE (if applicable) | YEAR(s) | FIELD OF STUDY |
| Duke University | | B.S. | 1987-1991 | Biomedical Engineering |
| University of Michigan | | M.D. | 1991-1999 | Medicine |
| University of Michigan | | Ph.D. | 1994-1998 | Neuroscience |

A. Positions and Honors

Positions and Employment

| | |
|--------------|---|
| 1999-2000 | Intern in Medicine, Emory University, Atlanta, GA |
| 2000-2003 | Resident in Neurology, Emory University, Atlanta, GA |
| 2002-2003 | Chief Resident in Neurology, Emory University, Atlanta, GA |
| 2003-2004 | Clinical Neurophysiology Fellow with an Emphasis in Epilepsy, Emory University, Atlanta, GA |
| 2004-present | Assistant Professor of Neurology, Vanderbilt University, Nashville, TN |

Honors and Awards

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|-----------|--|
| 1990 | Phi Beta Kappa, Duke University |
| 1990-1991 | Undergraduate Fellow, National Science Foundation Engineering Research Center, Duke University |
| 1991 | Tau Beta Bi, Duke University |
| 1991 | B.S. <i>magna cum laude</i> , Duke University |
| 1997-1998 | National Institute of Drug Abuse (NIDA) Research Training Fellowship, University of Michigan |
| 1998 | Neuroscience Graduate Student Publication Award, University of Michigan |
| 1998 | Alpha Omega Alpha, University of Michigan |
| 2002 | Javitts Junior Fellowship, sponsor Raymond Dingledine, PhD |

B. Selected peer-reviewed publications (in chronological order).

Agrawal CM, **Haas KF**, Leopold DA, Clark HG. Evaluation of poly(L-lactic acid) as a material for intravascular polymeric stents. *Biomaterials* 13(3):176-182, 1992.

Burgard, EC, **Haas, KF**, Macdonald, RL. Channel properties determine the transient activation kinetics of recombinant GABA(A) receptors. *Brain Res Mol Brain Res*, 73(1-2), 28-36, 1999

Haas, KF, Macdonald, RL. GABAA receptor subunit gamma2 and delta subtypes confer unique kinetic properties on recombinant GABA_A receptor currents in mouse fibroblasts. *J Physiol*, 514 (Pt 1), 27-45, 1999

Kapur, J, **Haas, KF**, Macdonald, RL. Physiological properties of GABA_A receptors from acutely dissociated rat dentate granule cells. *J Neurophysiol*, 81(5), 2464-71, 1999

Bianchi, MT, **Haas, KF**, Macdonald, RL. Structural determinants of fast desensitization and desensitization-deactivation coupling in GABA_A receptors. *J Neurosci*, 21(4), 1127-36, 2001

Bianchi, MT, **Haas, KF**, Macdonald, RL. Alpha1 and alpha6 subunits specify distinct desensitization, deactivation and neurosteroid modulation of GABA(A) receptors containing the delta subunit. *Neuropharmacology*, 43(4), 492-502, 2002

Haas, KF, Miller, SL, Friedman, DB, Broadie, K. The ubiquitin-proteasome system postsynaptically regulates glutamatergic synaptic function. *Mol Cell Neurosci*, 35(1), 64-75, 2007

Haas, KF, Woodruff III, E, Broadie, K. Proteasome function is required to maintain muscle cellular architecture. *Biol Cell*, 99(11) 15-626, 2007

Bianchi, MT, Botzolakis, **Haas, KF**, Fisher, JL, and Macdonald, RL Microscopic kinetic determinants of macroscopic currents: insights from coupling and uncoupling of GABA_A receptor desensitization and deactivation. *J Physiol*. 584(3) 769-787, 2007

Haas, KF, Broadie, K. Roles of ubiquitination at the synapse, *BBA Gene Regulatory Mechanisms*, 1779(8) 495-506, 2008.

Mengesha T, Abu-Ata M, **Haas KF**, Lavin PJ, Sun DA, Konrad PE, Pearson M, Wang L, Song Y, Abou-Khalil BW (2009). Visual Field Defects after Selective Amygdalohippocampectomy and Standard Temporal Lobectomy. *Journal of Neuro-Ophthalmology*, in press.

C. Research Support

Ongoing Research Support

Vanderbilt Kennedy Center Hobbs Discovery Grant: (Haas, PI) 11/01/2008-10/31/2009
A Targeted Proteomic Approach to Identify Proteins Underlying the Pathogenesis of Angelman Syndrome

This study focuses on identifying neuronal and synaptic proteins regulated by Ube3A using a mouse model for Angelman syndrome using proteomics.

K08 NS48882-01A1 (Haas, PI) 04/01/2006 – 03/31/2011
Ubiquitin proteasome system regulation of synaptic function

This is a mentored award focusing on the role of the ubiquitin proteasome system in regulating synaptic function.

Completed Research Support

Vanderbilt Physician Scientist Development Award 09/01/2004 – 03/31/2005

An evaluation of the role of the ubiquitin proteasome system in regulating glutamate receptor function at the *Drosophila* neuromuscular junction synapse.