

Postdoctoral Position – Department of Neurobiology
Johns Hopkins University School of Medicine
Division of Allergy and Clinical Immunology, The Johns Hopkins Asthma and Allergy
Center

Contact information:

Allen C. Myers, Ph.D.

email: amyers@jhmi.edu

Phone: 410-550-2007

Two year NIH-funded postdoctoral position is available immediately at the Johns Hopkins Asthma and Allergy Center, at the Hopkins Bayview Campus, to study regulation of airway autonomic nerves by neurotrophins. These studies utilize surgical implants in mice, single cell recording of mouse and human parasympathetic neurons, organotypic (primary) culture of human and mouse neurons, immunostaining and neurophysiology, all based on previously published in vitro results (Hazari et al., 2007; Kajekar et al., 2001; Canning et al., 1996). The project involves determining the role neurotrophins, particularly NGF and neurotrophin-3, have on neurite extension, neurotransmitter phenotype, synaptic transmission, and nerve function. Results from these studies will determine which neurotrophins are responsible for the abnormal neuronal response associated with airway diseases such as asthma and COPD and may ultimately determine new therapeutic treatments for these complex diseases. PhD or MD / PhD with expertise in electrophysiology, cell culture and/or Western blotting helpful. Training can be provided for anatomical techniques (histology, immunohistochemical staining, in situ hybridization, morphometry, etc.), neurophysiology (intracellular and patch recording), or pharmacology/functional studies as needed.