

**BIOGRAPHICAL SKETCH**

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NAME Allen C. Myers, Ph.D.		POSITION TITLE Associate Professor of Medicine	
eRA COMMONS USER NAME (credential, e.g., agency login) AMYERS3			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Towson University, Towson, MD	B.S.	1974-1978	Biology
University of Maryland School of Medicine, Baltimore, MD	Ph.D.	1984-1989	Pharmacology

**A Personal Statement.** As director of the Bayview Histology Core, and over 20 years of performing histological studies for his own and collaborator's studies, Dr. Myers has the expertise to oversee all aspects of pathological changes associated with tissue remodeling in human and mouse samples.

**B. Positions and Honors.**

- 1989 - 1991 Research Postdoctoral Fellow, The Johns Hopkins University School of Medicine  
Division of Clinical Immunology, Baltimore, Maryland
- 1991 - 1992 Instructor in Medicine, The Johns Hopkins University School of Medicine  
Division of Clinical Immunology, Baltimore, Maryland
- 1992 - 1998 Assistant Professor of Medicine, The Johns Hopkins University School of Medicine  
Division of Clinical Immunology, Baltimore, Maryland
- 1998 - present Associate Professor of Medicine, The Johns Hopkins University School of Medicine  
Division of Clinical Immunology, Baltimore, Maryland
- 2003 - present Joint Appointment, Associate Professor, The Johns Hopkins University  
Bloomberg School of Public Health, Department of Environmental Health Sciences

**C. Relevant Peer-reviewed publications (in chronological order).**

1. Myers, A.C., B.J. Udem, and D. Weinreich. (1991) Influence of antigen on membrane properties of guinea pig bronchial ganglion neurons. *J Applied Physiol* 71(3): 970-976.
2. Udem, B.J., Riccio, M.M., Weinreich, D., Ellis, J.L. and Myers, A.C. (1995) Neurophysiology of mast cell-nerve interactions in the airways *Inter Arch Allergy Appl Immunol.* 107: 199-201.
3. Myers, A.C., B.J. Udem, and W. Kummer (1996) Anatomical and electrophysiological comparison of the sensory innervation of bronchial and tracheal parasympathetic ganglionic neurons. *J Auton Nerv Sys* 61: 162-168.
4. Hunter, D.D., Myers, A.C., and B.J. Udem (2000) Nerve growth factor-induced phenotypic switch in guinea pig airway sensory neurons. *Amer J Respir Crit Care Med* 161(6):1985-90.
5. Kajekar, R., Rohde, H.K., Myers A.C. (2001) The integrative membrane properties of human bronchial parasympathetic ganglia neurons. *Amer J Respir Crit Care Med.* 164:1927-1032.
6. Li-Chen, C., Zhang, Z., Myers, A.C. and Huang S-K. (2001) Altered pulmonary eosinophilic inflammation in mice deficient for Clara cell secretory protein, CC10. *J Immunol* 167(6):3025-3028.
7. Myers, A.C, Kajekar, R., Udem, B.J. (2002) Allergic inflammation-induced neuropeptide production in rapidly adapting afferent nerves in guinea pig airways. *Am J Physiol Lung Cell Mol Physiol.* 282(4):L775-781.

8. Myers, A.C. Bochner, B.S., Tomaselli, G.F., Fedarko, N., Hudson, S.A., Rohde, H., Huang, S-K., Xu, K.Y. (2002) Cell surface expression of a specific antigenic site on the catalytic subunit of (Na<sup>+</sup>K<sup>+</sup>)-ATPase. *Biochem Biophys Res Comm* 291(1): 111-115.
9. Kurosawa, S., Myers, A.C., Chen, L., Wang, S., Ni, J., Plitt, J.R., Heller, N.M., Bochner, B.S., Schleimer, R.P. (2003) Expression of the costimulatory molecule B7-H2 (ICOS-ligand) by human airway epithelial cells. *Amer J Respir Crit Care Med*. 28(5):563-73.
10. Hung C.H., Chen L.C., Zhang Z., Chowdhury B., Lee W.L., Plunkett B., Chen C.H., Myers A.C., Huang S.K. (2004) Regulation of TH2 responses by the pulmonary Clara cell secretory 10-kd protein. *J. Allergy Clin Immunol* 114(3):664-70.
11. Kim, J., Myers, A.C., Chen, L., Pardoll, D.M., Truong-Tran, Q.A., Lane, A.P., McDyer J.F., Fortuno L., Schleimer R.P. (2005) Constitutive and inducible expression of B7 family of ligands by human airway epithelial cells. *Am J Respir Cell Mol Biol*. 33:280-289.
12. Myers AC, Goldie R, and Hay WP. (2005) A novel role for tachykinin neurokinin-3 receptors in regulation of human bronchial ganglia neurons. *Am J Res Cri Care Med* 171: 212-216.
13. Oda, N., Canelos P.B., Essayan D.M., Plunkett B.A., Myers A.C., Huang S.K. (2005) Interleukin-17F induces pulmonary neutrophilia and amplifies antigen-induced allergic response. *Amer J Respir Crit Care Med*. 171(1):12-8.
14. Xu, K.Y., Takimoto, E., Zhang, Q., Rohde, H.K., Myers, A.C. (2005) Evidence that the H1-H2 domain of  $\alpha$ 1 subunit of (Na<sup>+</sup>-K<sup>+</sup>)-ATPase participates in the regulation of cardiac contraction. *FASEB Journal* 19(1):53-61.
15. Wu X., Myers A.C., Goldstone A.C., Togias A. and Sanico A.M. (2006) Localization of nerve growth factor and its receptors in the human nasal mucosa. *J Allergy Clin Immunol* 118:428-433.
16. Yokoi H., Myers A.C., Matsumoto K., Crocker P.R., Saito H., Bochner B.S. (2006) Alteration and acquisition of Siglecs during in vitro maturation of CD34<sup>+</sup> progenitors into human mast cells. *Allergy* 61(6):769-776.
17. Lane, A.P., Truong-Tran, Q.A., Myers A.C., Bickel, C.A., Schleimer R.P. (2006) Serum amyloid A, properdin, complement 3, and toll-like receptors are expressed locally in human sinonasal tissue. *Am J Rhinology* 20:117-123.
18. Hazari, M.S., Pan, J., Myers, A.C. (2007) Nerve growth factor acutely potentiates synaptic transmission in vitro and induces dendritic growth in vivo on adult neurons in airway parasympathetic ganglia. *Am J Physiol Lung Cell Mol Physiol* 292:L992-1001.
19. Georas, S.N., Berdyshev, E., Hubbard, W., Gorshkova, I.A., Usatyuk, P.V., Saatian, B., Myers, A.C., Williams, M.A., Xiao, H.Q., Liu, M., Natarajan, V. (2007) Lysophosphatidic acid is detectable in human bronchoalveolar lavage fluids at baseline and increased after segmental allergen challenge. *Clin Exp Allergy*. 37:311-322.
20. Yu, S.Y., Kollarik, M., Ouyang A, Myers, A.C., Udem, B.J. (2007) Mast cell-mediated long-lasting increases in excitability of vagal C-fibers in guinea pig esophagus. *Am J Physiol Gastrointest Liver Physiol* 293(4):G850-856.
22. Duarte, A.G., Terminella, L., Smith, J.T., Myers, A.C., Campbell, G., Lick, S. (2008) Restoration of cough reflex in lung transplant recipients. *Chest* 34:310-316
23. Weigand LA, Meeker S, Myers AC, Udem BJ. (2009) Mast cell-cholinergic nerve interaction in mouse airways. *J Physiol*. 587:3355-3362.
34. Savransky V, Reinke C, Jun J, Bevans-Fonti S, Nanayakkara A, Li J, Myers AC, Torbenson MS, Polotsky VY (2009) . Chronic intermittent hypoxia and acetaminophen induce synergistic liver injury in mice. *Exp Physiol*. 94:228-239.
25. Mazzone, S, Reynolds, S, Mori, M, Kollarik, M, Farmer, D, Myers, AC, Canning, B.J. (2009) Selective expression of a sodium pump isozyme by cough receptors and its essential role in regulating cough. *Journal of Neuroscience* 29:13662-71.
26. Pan J, Rohde HK, Udem, BJ, Myers AC (2010) Neurotransmitters in airway parasympathetic neurons altered by NT-3 and repeated allergen challenge. *Am J Respir Cell Mol Biol*. 43(4):452-457.
27. Weigand, LA, Myers, AC. (2010) Synaptic and membrane properties of parasympathetic ganglionic neurons innervating mouse trachea and bronchi. *American J Physiology (Lung Cell Molec Physio)* 298:L593-599.
28. Guo JP, Brummet ME, Myers AC, Na HJ, Rowland E, Schnaar RL, Zheng T, Zhu Z, Bochner BS. (2010) Characterization of expression of glycan ligands for Siglec-F in normal mouse lungs. *American Journal of Respiratory Cell and Molecular Biology* (Epub ahead of print).