

BIOGRAPHICAL SKETCH

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

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

NOTE: The Biographical Sketch may not exceed four pages. Items A and B (together) may not exceed two of the four-page limit. Follow the formats and instructions on the attached sample.

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

- 1989 –1991 Research Postdoctoral Fellow, The Johns Hopkins Univ. School of Medicine, Baltimore, MD
 1990-1992 Adjunct Lecturer, Department of Biology, Univ. of Maryland Baltimore County, Catonsville, MD
 1991-1992 Instructor of Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD
 1992-1998 Assistant Professor of Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD
 1998-present Associate Professor of Medicine, The Johns Hopkins University School of Medicine, Baltimore, MD
 2003-present Associate Professor, The Johns Hopkins Univ. Bloomberg School of Public Health, Baltimore, MD

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.

1. **Myers, A.C.**, Goldie, R. and Hay, D.W. P. (2005) A novel role for tachykinin neurokinin-3 receptors in regulation of human bronchial ganglia neurons. *American Journal of Respiratory and Critical Care Medicine* 171(3):212-216.
2. Chuaychoo B., Hunter D.D., **Myers A.C.**, Kollarik M., Udem B.J. (2005) Allergen-induced substance P synthesis in large-diameter sensory neurons innervating the lungs. *J. Allergy and Clinical Immunol.* 116(2):325-31.
3. Udem B.J., Chuaychoo B., Lee M.G., Weinreich D., **Myers A.C.**, Kollarik M. (2004) Two distinct phenotypes of vagal afferent C-fibers innervating the lungs. *Journal of Physiology (London)* 556:905-17.
4. Kurosawa S., **Myers A.C.**, Chen L., Wang S., Ni J., Plitt J.R., Heller N.M., Bochner BS, Schleimer RP. (2003) Expression of the costimulatory molecule B7-H2 (ICOS-ligand) by human airway epithelial cells. *American Journal of Respiratory and Critical Care Medicine.* 28(5):563-73.
5. Kajekar, R., Udem, B.J. and **Myers, A.C.** (2003) The role of cyclooxygenase activation and prostaglandins in antigen-induced excitability changes of bronchial parasympathetic ganglia neurons. *American Journal of Physiology (Lung Cellular and Molecular Physiology).* 284(4):L581-587.
6. Canning B.J., Anukwu L., Kajekar R., **Myers A.C.** (2002) Endogenous neurokinins facilitate synaptic transmission in guinea pig airway parasympathetic ganglia. *American Journal of Physiology (Regulatory, Integrative and Comparative Physiology).* 283(2):R320-330.

7. **Myers, A.C.**, Kajekar, R., Udem, B.J. (2002) Allergic inflammation-induced neuropeptide production in rapidly adapting afferent nerves in guinea pig airways. *American Journal of Physiology (Lung Cellular and Molecular Physiology)*. 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⁺-K⁺)-ATPase. *Biochemical and Biophysical Research Communications*. 291(1): 111-115.
9. Kajekar, R., Rohde, H.K., **Myers A.C.**(2001) The integrative membrane properties of human bronchial parasympathetic ganglia neurons. *Amer. Journal of Respiratory and Critical Care Medicine*. 164:1927-1032.
10. Chen, L-C., Zhang,Z., **Myers, A.C.** Huang S-K. (2001) Altered pulmonary eosinophilic inflammation in mice deficient for Clara cell secretory protein, CC10. *Journal of Immunology* 167(6):3025-3028.
11. **Myers, A.C.** (2001) Transmission in autonomic ganglia. *Respiration Physiology* 125: 99-111.
12. Udem, B.J., Kajekar, R., Hunter, D.D., **Myers, A.C.** (2000) Neural integration and allergic disease. *Journal of Allergy and Clinical Immunology*. 106: 213-20.
13. **Myers, A.C.** (2000) Anatomical characteristics of tonic and phasic postganglionic neurons in guinea pig bronchial parasympathetic ganglia. *Journal of Comparative Neurology*. 419:439-450.
14. Hunter, D.D., **Myers, A.C.**, and B.J. Udem (2000) Nerve growth factor-induced phenotypic switch in guinea pig airway sensory neurons. *American Journal of Respiratory and Critical Care Medicine* 161(6):1985-90.
15. Kajekar, R. and **Myers, A.C.** (2000) Effect of bradykinin on membrane properties of guinea pig bronchial parasympathetic ganglion neurons. *American Journal of Physiology (Lung Cellular and Molecular Physiology)* 278(3): L485-L491.
16. McAlexander, M.A., **Myers, A.C.** and Udem, B.J.. (1999) Adaptation of guinea-pig airway neurones to mechanical stimulation. *Journal of Physiology (London)* 521.1: 230-247.
17. Kajekar, R., Proud, D., Meeker, S.N., **Myers, A.C.**, and B.J. Udem. (1999) Characterization of vagal
18. afferent subtypes stimulated by bradykinin in guinea pig trachea. *Journal of Pharmacology and Experimental Therapeutics*. 289: 682-687.
19. McAlexander, A.M., **Myers, A.C.**, and B.J. Udem (1998) Inhibition of 5-lipoxygenase diminishes neurally evoked tachykinergic contraction of the guinea pig isolated airway. *Journal of Pharmacology and Experimental Therapeutics* 285 (2) 602-607.
20. **Myers, A.C.** (1998) Calcium and potassium currents regulate action potential accommodation and firing frequency in guinea pig bronchial ganglia neurons. *American Journal of Physiology* 275 (2) L357-364.
21. **Myers, A.C.**, Riccio, M.M., and B.J. Udem. (1997) Effects of nedocromil sodium on neurogenic mechanisms in vitro. *Journal of Allergy and Clinical Immunology* 98: 107-111.
22. **Myers, A.C.**, B.J. Udem, and W. Kummer (1996) Anatomical and electrophysiological comparison of the sensory innervation of bronchial and tracheal parasympathetic ganglion neurons. *Journal of the Autonomic Nervous System* 61: 162-168.
23. Riccio, M.M., Kummer, W., Biglari, B., **Myers, A.C.** and B.J. Udem (1996) Interganglionic segregation of distinct vagal afferent fibre phenotypes in guinea-pig airways. *J. Physiol. (London)* 496: 521-530.
24. **Myers, A.C.** and B.J. Udem. (1996) Muscarinic receptor regulation of synaptic transmission in airway parasympathetic ganglia. *American Journal of Physiology* 270 (Lung Cellular and Molecular Physiology 14) L630-L636.
25. Riccio, M. M., **A.C. Myers** and B.J. Udem (1995) Immunomodulation of afferent neurones in guinea-pig isolated airway. *J Physiol (London)* 491: 499-509.

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

Ongoing Research Support

Project Number: 5R01HL48198-13 (Currently in renewal process)

Source: NIH Research Scientist Award (R01)

Title (Major Goals): "Neural Integration at Bronchial Parasympathetic Ganglia" (This proposal describes experiments that address the hypothesis that synaptic transmission in airway parasympathetic ganglia is regulated by diverse inputs)

Dates Funded: 07/30/2000 to 07/30/2005

Effort: Principal Investigator

Overlap: None, this application is in for renewal

Project Number: NIH 5 R01HL38095-16

Title (Major Goals): "Mast Cell-Nerve Interactions in Airways" (The long term objective of this research is to determine the effects of acute and chronic inflammation on the function of the airway nervous systems.)

Dates Funded: 03/04/98 to 02/28/09

Effort: Co- Investigator with Dr. Bradley J. Udem, Principal Investigator

Overlap: None

Project Number: NIH 5 R01HL62296-05

Source: NIH Research Scientist Award (R01)

Title (Major Goals): "Airway Epithelium And Sensory Neuroexcitability" (The present proposal focuses specifically on the morphology and activation mechanisms of vagal sensory C-fibers in the airways and lungs)

Dates Funded: 01/16/04 to 12/31/09

Effort: Co- Investigator with Dr. Bradley J. Udem, Principal Investigator

Overlap: None

Completed Research Support

Project Number: 1 P01 AI50530

Source: NIH National Institute of Allergy and Allergic Diseases, Asthma and Allergic Diseases Research Center Award

Title: "Tissue-Specific Mechanisms of Allergic Inflammation". The goal of this project is to compare onset and propagation of allergic inflammation in different tissues including the nose, skin, and lung.

Dates Funded: 07/30/2001 to 07/30/2005

Effort: Division of Allergy and Immunology Histology Core Director, Dr. Bruce S. Bochner, Principal Investigator

Overlap: None