

BIOGRAPHICAL SKETCH

Give the following information for the key personnel and consultants and collaborators. Begin with the principal investigator/program director. Photocopy this page for each person.

NAME Bradley Joel Udem	POSITION TITLE Professor of Medicine
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EDUCATION (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.*)

INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
North Dakota State University, Fargo, N.D.	B.S.	1979	Pharmacy
University of Wisconsin, Madison, Wisconsin	M.S.	1982	Pharmacology
University of Wisconsin, Madison, Wisconsin	Ph.D.	1984	Pharmacology

RESEARCH AND/OR PROFESSIONAL EXPERIENCE: Concluding with present position, list in chronological order previous employment, experience, and honors. Key personnel include the principal investigator and any other individuals who participate in the scientific development or execution of the project. Key personnel typically will include all individuals with doctoral or other professional degrees, but in some projects will include individuals at the masters or baccalaureate level provided they contribute in a substantive way to the scientific development or execution of the project. Include present membership on any Federal Government public advisory committee. list, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NOT EXCEED TWO PAGES.

1980 - 1984	University of Wisconsin, Ph.D. in Pharmacology
1984 - 1985	Postdoctoral Research Fellow, Johns Hopkins University School of Medicine Clinical Immunology Division, Baltimore, Maryland
1986 - 1991	Asst. Professor of Medicine, Johns Hopkins University School of Medicine Clinical Immunology Division, Baltimore, Maryland
1988 - present	Joint Appointment-Johns Hopkins Univ. Sch. of Public Health & Hygiene Dept. of Physiology
1991 -1998	Associate Professor of Medicine, Johns Hopkins University School of Medicine;
1998-present	Professor of Medicine, Johns Hopkins School of Medicine

Honors	Member of <i>Rho Chi</i> (Pharmaceutical Honor Society) Editorial Board (past and present), Br. J. Pharmacol Am J. Resp. Crit Care Med Resp Physiol Cough Proc. Wes. Pharmacol. Soc Pulm. Pharm and Ther. J. Pharmacol Exp. Ther.
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Recent Publications

Number pages consecutively at the bottom throughout the application. Do not use suffixes such as 3a, 3b.

Refereed Publications:

Go to <http://www.ncbi.nlm.nih.gov/sites/entrez/>
(type in as key word—Udem)

Books and Book Chapters:

Advances in Vagal Afferent Neurobiology. CRC Press B.J. Udem and D. Weinreich Editors, 2005

- Undem, B.J., Kajekar, R., Myers, A.C.; Modulation of Peripheral Neurotransmission Associated with Mast Cell Activation. In *Mast Cells and Basophils in Physiology, Pathophysiology and Host Defense*. Editor G. Marone. Academic Press, 2000
- Undem, B.J. and Myers, A.C.: Neural Regulation of the Immune Response. In: *Asthma and Rhinitis Second Volume*. Ed. Busse, W., and Holgate, S., Blackwell Scientific Press In press.
- Pedersen, K., Myers, A.C. and Undem, B.J.: Neuroimmune Interactions in Airway Inflammation In: *Lung Biology in Health and Disease Vol 117: Inflammatory Mechanisms in Asthma*, Ed. Holgate, ST and Busse, W. Marcel Dekker. 1998
- Undem, B.J. & Lichtenstein, L.M.: Drugs Used In The Treatment of Asthma In: *Goodman & Gilman's Pharmacological Basis of Therapeutics 10th Edition*, 2001
- Undem, B.J. Kajekar, R., and Myers, A. Modulation of Peripheral Neurotransmission Associated with Mast Cell Activation. In *Mast Cells and Basophils*. Ed. Marone, G., Lichtenstein, LM, and Galli, SJ. Academic Press 2000.
- Undem, B.J. and Myers, A.C. Cholinergic and Noncholinergic Parasympathetic Control of Airway Smooth Muscle. In *Muscarinic Receptors in Airways Diseases* Ed. J. Zaagsma. Birkhauser press, 2001.
- Undem, B.J. and Weinreich, D. Nerve-Immune Interactions in the Lung In *The Autonomic Nervous System* Ed. G Burnstock; Vol. 16: Nerve-Immune Interactions Ed. J Bienenstock Harwood Academic Publishers 2003.
- Undem, B.J. and Canning, B.J. The Nervous System in Allergic Airway Inflammation Allergy, Ed. E. Middleton, 2003.
- Burnstock; Vol. 16: Nerve-Immune Interactions Ed. J Bienenstock Harwood Academic Publishers 2003.
- Undem, B.J.: Drugs Used In The Treatment of Asthma In: *Goodman & Gilman's Pharmacological Basis of Therapeutics 11th Edition*, 2005