

CURRICULUM VITAE

R. Michael Burger, Ph.D.

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As of July 2006:

Assistant Professor
Department of Biological Sciences
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Current Affiliation:

Alexander von Humboldt Research Fellow
Ludwig-Maximilians-Universität München
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Previous position:

Senior Fellow
Virginia Merrill Bloedel Hearing Research Center and
Department of Otolaryngology-Head and Neck Surgery
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Education:

University of Texas at Austin, Ph.D. Zoology, 2000
Ithaca College, B.A. dual major: Psychology and Anthropology, 1993.

Coursework at other institutions:

Cold Spring Harbor Laboratories: Physiological Approaches to Ion Channel Biology
Cornell University, Shoals Marine Laboratory: Systems Neurobiology

Professional Employment:

2005-2006: Ludwig-Maximilians University of Munich, Alexander von Humboldt
Foundation Fellow, Laboratory of Dr. Benedikt Grothe
2000-2005: U. Washington, Postdoctoral Fellow, Laboratory of Dr. Edwin Rubel
1994-2000 U. Texas, Research Assistant, Laboratory of Dr. George Pollak
1993-94. Cornell U. Technician, Laboratory of Dr. Cole Gilbert

Teaching Experience:

2003 U.W. Guest lecturer: Graduate auditory neuroscience training course
1999 U.T. Guest lecturer: Vertebrate Physiology

1995-96. U.T. Teaching Assistant: Vertebrate Physiology
1992-93 Ithaca College. Teaching Assistant: Experimental Psychology

Professional Assignments, Honors and Awards:

Alexander von Humboldt Foundation Postdoctoral Fellowship, 2005-2006
Grant Proposal Referee, National Science Foundation, 2004
National Research Service Award, National Institutes of Health, 2000-2003
Cold Spring Harbor Laboratories Course Scholarship, 2001
Zoology Scholarship Endowment for Excellence, UT Dept. of Zoology
Professional Development Award, UT Graduate School
Grass Foundation Scholarship, Cornell University (SML) 1993
Psi Chi: Psychology Honors Society, Ithaca College, 1992
Cum Laude: Ithaca College, 1993

Professional Societies:

Society for Neuroscience
Association for Research in Otolaryngology
American Association for the Advancement of Science

Book Chapters:

Burger, R. M. and Rubel, E. W. *Encoding of interaural timing for sound localization.*
Handbook of the Senses: Audition. Eds. Dallos, P. and Oertel, D., Elsevier, *In preparation.*

Publications:

Burger, R.M., Pfeiffer, J.D., Westrum, L.E., Bernard, A., and Rubel, E.W, Expression of GABA_B receptor in the avian auditory brainstem: ontogeny, afferent deprivation, and ultrastructure. In Press: *Journal of Comparative Neurology*, 2005

Lu, Y., Burger, R.M., and Rubel, E.W. GABA_B Receptor Activation Modulates GABA_A Receptor-mediated Inhibition in Chicken Nucleus Magnocellularis Neurons. *Journal of Neurophysiology*, 93:1429-38, 2005.

Burger, R.M., Cramer, K.S., Pfeiffer, J.D., and Rubel, E.W, The avian superior olivary nucleus provides divergent inhibitory input to parallel auditory pathways. *Journal of Comparative Neurology*. 481(1): 6-18. 2005.

Pollak G.D., Burger, R.M., Klug A. Dissecting the circuitry of the auditory system. *Trends in Neurosciences*. 26(1): 33-9. 2003.

Pollak G.D., Burger, R.M., Park T.J., Klug A., Bauer E.E. Roles of inhibition for transforming binaural properties in the brainstem auditory system. *Hearing Research*. 168(1-2): 60-78. 2002.

Burger, R.M. and Pollak, G. D. Reversible inactivation of the dorsal nucleus of the lateral lemniscus reveals its role for processing multiple sound sources in the inferior colliculus. *Journal of Neuroscience*. 21(13): 4830-4843. 2001.

Klug, A.K., Khan, A., Burger, R.M., Bauer, E.E., Hurley, L.M., Yang, L., Grothe, B., Halvorsen, M.B., and Park T.J. Latency as a function of intensity in auditory neurons: transformations along the neuraxis. *Hearing Research*, 148:107-123. 2000.

Burger, R.M. and Pollak, G.D. Analysis of the role of inhibition in shaping responses to sinusoidally amplitude-modulated signals in the inferior colliculus. *Journal of Neurophysiology* 80: 1686-1701. 1998.

Recent Abstracts:

Burger, R. M., Rubsamen, R., and Rubel, E. W. Inhibition shapes monaural response properties in avian Nucleus Magnocellularis neurons. Submitted: *Abstracts of the 28th Midwinter Research Meeting of the Association for Research in Otolaryngology*, New Orleans, LA, Feb. 2005.

Howard, M.A., Burger, R.M., and Rubel, E.W. Development of GABAergic Inputs and Inhibition in Chicken Nucleus Magnocellularis. Submitted: *Abstracts of the 28th Midwinter Research Meeting of the Association for Research in Otolaryngology*, New Orleans, LA, Feb. 2005.

Burger, R. M., E.E. Bauer, Rubel, E.W Possible Contribution of the Contralateral Superior Olivary Nucleus Input to Avian Nucleus Magnocellularis Response Properties. *Abstracts of the 27th Midwinter Research Meeting of the Association for Research in Otolaryngology*, Daytona, FL, Feb. 2004.