

Curriculum Vitae

Walter Wilczynski

Present Address:

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EDUCATION

Lehigh University	1970-1974	B.S., High Honors (Psychology)
		B.A., High Honors (Biology)
University of Michigan	1974-1978	Ph.D. (Neurosciences)

POSITIONS

2008-Present	Professor and Director, Neuroscience Institute, Georgia State University
2005-Present	Professor, Department of Psychology, Georgia State University Co-Director for Research and Academic Programs, Center for Behavioral Neuroscience
	Adjunct Professor of Psychology, University of Texas
1995 - 2005	Professor, Department of Psychology, The University of Texas at Austin (Joint appointment in Div. Biological Science, Sect. of Neurobiology)
1989-1995	Associate Professor, Department of Psychology, The University of Texas at Austin (Joint appointment in Department of Zoology, 1993)
1983-1989	Assistant Professor, Department of Psychology, The University of Texas at Austin
1979-1983	Postdoctoral Fellow, Sect. Neurobiology and Behavior, Cornell University

FELLOWSHIPS AND GRANTS (Does not include internal grants): *CURRENT:*

2013-2018	National Science Foundation (IOS 1256839): RCN: Genetics and Genomics of Social Behavior; \$499,209 total costs
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FELLOWSHIPS AND GRANTS (Does not include internal grants): *PREVIOUS:*

2008-2013	National Science Foundation (IBN 0751573): "The interaction of social experience and hormone changes in modifying aggression"; \$560,000 total costs
2009-2010	Templeton Foundation: "Planning Grant: The neuroscience of positive emotions and social states"; \$94,492 total costs
2003-2007	NIMH Research Grant (2-R01 MH/DC57066): "Acoustic communication and hormone control"; \$884,000 total costs
2001-2005	National Science Foundation (0078150): "Integrated Research Challenges in Environmental Biology: The phylogenetics and functional integration of complex phenotypes regulating social/reproductive interactions" (co-PI with D. Cannetella and M.J. Ryan); \$2,895,532 total costs

2001-2003	National Science Foundation (0090739): “The interaction of social experience and hormone changes in modifying aggression”; \$390,518 total costs
1998-2002	NIMH Research Grant (R01 MH/DC57066): “Acoustic communication and hormone control”; \$489,941 total costs
1999-2000	Minnesota Pollution Control Agency (A01666): “Laryngeal morphology and vanishing/deformed amphibians”
1995-1998	NIMH Research Grant (RO1 MH52696): "Neuroethology of social communication"
1991-1995	NSF Research Grant (BNS 9021185; co-PI with M.J. Ryan): “Microevolution of acoustic communication in <i>Acris</i> ”
1991	NIMH Symposium Grant (R13 MH47289): “Mechanisms of Mate Choice”
1991	NIH Small Instrumentation Grant (1S15AI32174)
1989-1993	NIMH Research Grant (RO1 MH45350): “Coordinating inputs to forebrain control centers”
1987; 1990; 1995	Smithsonian Institution Short Term Visitor Program Grant
1986-1989	NSF Research Grant (BNS-86-06289): “Microevolution of acoustic communication in <i>Acris</i> ” (Co-PI with M. J. Ryan, Department of Zoology, The University of Texas)
1984-1986	NSF Research Grant (BNS-84-06221): “Morphological correlates of binaural auditory processing”
1980-1983	NIH National Research Service Award Postdoctoral Fellowship
1979-1980	National Science Foundation Postdoctoral Fellowship

OTHER: Six postdoctoral NRSAs and three predoctoral NRSAs have been awarded to past students working in my lab.

TEACHING EXPERIENCE

2005-Present	Professor, Georgia State University Physiological Psychology (Undergraduate class) Responsible Conduct of Research (Graduate class)
1983-2005	Assistant to Full Professor, The University of Texas Biopsychology (Undergraduate class) Behavioral Neuroscience (Undergraduate class) Animal Communication (Undergraduate seminar) Functional Neuroanatomy (Graduate class) Principles of Neuroscience II: Systems and Behavior Neuroethology (Graduate seminar) Undergraduate Honors Research I and II
1979-1980	Lecturer in Biology, Cornell University Comparative Vertebrate Neuroanatomy Topics in Developmental Neuroanatomy
1975	Teaching Assistant, University of Michigan Introductory Neuroscience Lab for graduate students
1974	Undergraduate Teaching Assistant, Lehigh University Introductory Psychology

RESEARCH INTERESTS

Neuroethology of Social Behavior; Animal Communication; Behavioral Endocrinology; Comparative Vertebrate Neuroanatomy; Sensory Processing

MEMBERSHIPS

Society for Neuroscience; J. B. Johnston Club (for Comparative Neurobiology); Society for Comparative and Integrative Biology; Society for Behavioral and Neuroendocrinology; American Association for the Advancement of Science; International Society for Neuroethology; Sigma Xi

MAJOR ADMINISTRATION AND SERVICE

Director, Neuroscience Institute, Georgia State University (2008-2014)

Director, Georgia State University Brains & Behavior Area of Focus (2008-2014)

Co-Director for Research and Academic Programs, Center for Behavioral Neuroscience (2005-present)

Chair, Animal Resources Committee (Georgia State University) (2006-2009)

Psychology Department Behavioral Neuroscience Area Head, University of Texas (2001-2005):

Neuroscience Doctoral Program Assistant Graduate Advisor, University of Texas (2000-2003)

Psychology Department Undergraduate Advisor, University of Texas (1990-1996)

National Science Foundation Program Director for Behavioral Neuroscience (Aug. 1996-Aug. 1997): This position was undertaken while on leave from the University of Texas

- NSF member of the federal cross-agency Human Brain Project
- Neuroscience cluster representative on committee developing and implementing NSF's cross-Directorate funding initiative in Learning and Intelligent Systems.

Visiting Scientist, Smithsonian Tropical Research Institute (1987, 1990, 1995)

Editor-in-Chief, *Brain, Behavior and Evolution* (1999-2010)

Editorial Board member, *Journal of Zoology* (2007-2010)

Associate Editor, *Animal Behaviour* (1997-2000)

Member, Nominating committee for officers, J. B. Johnston Club (1983; 1987; 1992; 1995)

Member, Program Committee, J. B. Johnston Club (1998-2000)

Society for Behavioral Endocrinology Awards Committee (2010-2012)

Society for Behavioral Endocrinology Advisory Committee (2011-present)

TEACHING AWARDS and OTHER HONORS

Psychology Club and Psy Chi Teacher of the Year (1994)

Dad's Association Centennial Teaching Fellow (1996)

President's Associates Award for Teaching Excellence (1997)

Nominated for University Graduate Teaching Award (1999)

Nominated for University Academy of Distinguished Teachers (2000)

National Science Foundation's Director's Award for Collaborative Integration for service on the Learning and Intelligent Systems Working Group (1997)

Bloedel Traveling Scholar Award from the Virginia Merrill Bloedel Hearing Research Center, University of Washington (2001)

PUBLICATIONS

Doctoral Thesis: Connections of the Midbrain Auditory Center in the Bullfrog, *Rana catesbeiana* (University of Michigan, 1978); *Thesis Advisor:* Dr. R. Glenn Northcutt

RESEARCH JOURNAL ARTICLES

- Hattori, T., and W. Wilczynski (2014) Differences in forebrain androgen receptor expression in winners and losers of male anole aggressive interactions. *Brain Res.* In press.
- Gall, M. D., and W. Wilczynski (2014) Prior experience with conspecific signals enhances auditory midbrain responsiveness to conspecific vocalizations. *J. Exp. Biol.*, 217: 1977-1982.
- Striedter, G. F., T. G. Belgard, C. C. Chen, F. P. Davis, B. L. Finlay, O. Güntürkün, M. E. Hale, J. A. Harris, E. E. Hecht, P. R. Hof, H. A. Hofmann, L. Z. Holland, A. N. Iwaniuk, E. D. Jarvis, H. J. Karten, P. S. Katz, W. B. Kristan, E. R. Macagno, P. P. Mitra, L. L. Moroz, T. M. Preuss, C. W. Ragsdale, C. C. Sherwood, C. F. Stevens, M. C. Stüttgen, T. Tsumoto, and W. Wilczynski (2014) NSF Workshop Report: Discovering general principles of nervous system organization by comparing brain maps across species. *Brain Behav. Evol.* 83:1–8.
- Creighton, A., and W. Wilczynski (2014) Influence of dopamine D2-type receptors on motor behaviors in the green tree frog, *Hyla cinerea*. *Physiol. Behav.*, 127:71-80.
- Lutterschmidt, D. I., and W. Wilczynski (2012) Sexually dimorphic effects of melatonin on brain arginine vasotocin immunoreactivity in Green Treefrogs (*Hyla cinerea*). *Brain Behav. Evol.*, 80:222–232.
- Almli, L. M., and W. Wilczynski (2012) Socially modulated cell proliferation is independent of gonadal steroid hormones in the brain of the adult green treefrog (*Hyla cinerea*). *Brain Behav. Evol.*, 79:170–180.
- Wilczynski W., and K. S. Lynch (2011) Female sexual arousal in amphibians. *Horm. Behav.* 59: 630-636.
- Wilczynski W., and M.J. Ryan (2010) The behavioral neuroscience of anuran social signal processing. *Curr. Opin. Neurobiol.* 20:754–763.
- Hoke, K. L., M.J. Ryan, and W. Wilczynski (2010) Sexually dimorphic sensory gating drives behavioral differences in túngara frogs. *J. Exp. Biol.*, 213: 3463-3472.
- O’Bryant, E. L., and W. Wilczynski (2010) Changes in plasma testosterone levels and brain AVT cell number during the breeding season. *Brain Behav. Evol.*, 75: 271-281.
- Almli, L. M., and W. Wilczynski (2009) Sex-specific modulation of cell proliferation by socially-relevant stimuli in the adult green treefrog brain (*Hyla cinerea*). *Brain Behav. Evol.*, 74: 143-154.
- Miranda, J.A., and W. Wilczynski (2009) Sex differences and androgen influences on midbrain auditory thresholds in the green treefrog, *Hyla cinerea*. *Hearing Res.*, 252: 79–88.
- Dunham, L. A., D. I. Lutterschmidt, and W. Wilczynski (2009) Kisspeptin-like immunoreactive neuron distribution in the Green Anole (*Anolis carolinensis*). *Brain Behav. Evol.*, 73:129–137.
- Miranda, J.A., and W. Wilczynski (2009) Female reproductive state influences the auditory midbrain response. *J. Comp. Physiol. A*, 195:341–349.
- Hattori, T., and W. Wilczynski (2009) Comparison of arginine vasotocin immunoreactivity differences in dominant and subordinate green anole lizards. *Physiol. Behav.*, 96: 104-107.
- Hoke, K.L., M. J. Ryan, and W. Wilczynski (2008) Candidate neural locus for sex differences in reproductive decisions. *Biol. Lett.*, 4:518-521.
- Lynch, K.S., and W. Wilczynski (2008) Reproductive hormones modify reception of species-typical communication signals in a female anuran. *Brain Behav. Evol.*, 71:143–150.
- Hoke, K.L., M. J. Ryan, and W. Wilczynski (2007) Functional coupling between substantia nigra and basal ganglia homologs in amphibians. *Behav. Neurosci.*, 121:1393-1399.

- Almli, L.M., and W. Wilczynski (2007) Regional distribution and migration of proliferating cell populations in the adult brain of *Hyla cinerea* (Anura, Amphibia). *Brain Res.*, 1159:112 – 118.
- Chu, J., and W. Wilczynski (2007) Apomorphine effects on frog locomotor behavior. *Physiol. Behav.*, 91: 71-76.
- Hoke, K.L., M. J. Ryan, and W. Wilczynski (2007) Integration of sensory and motor processing underlying social behaviour in túngara frogs. *Proc. Royal Soc. Lond.*, 274: 641–649.
- Yang, E.-J., and W. Wilczynski (2007) Social experience organizes parallel networks in sensory and limbic forebrain. *J. Develop. Neurobiol.*, 67: 285–303.
- Lynch, K.S., and W. Wilczynski (2006) Social regulation of plasma estrogen concentration in a female anuran. *Horm. Behav.*, 50: 101-106.
- Farrell, W. J., and W. Wilczynski (2006) Aggressive experience alters place preference in green anole lizards (*Anolis carolinensis*). *Anim. Behav.*, 71: 1155-1164.
- Lynch, K. S., D. Crews, M. J. Ryan and W. Wilczynski (2006) Hormonal state influences aspects of female mate choice in the túngara frog (*Physalaemus pustulosus*). *Horm. Behav.*, 49: 450-457.
- Wilczynski, W., K. S. Lynch, E. L. O’Bryant (2005) Current research in amphibians: Studies integrating endocrinology, behavior, and neurobiology. *Horm. Behav.*, 48: 440-450.
- Hoke, K.L., M. J. Ryan, W. Wilczynski (2005) Social cues shift functional connectivity in the hypothalamus. *Proc. Nat. Acad. Sci. USA*, 102: 10712-10717.
- Singletary, K.G., Y. Delville, W. J. Farrell, W. Wilczynski (2005) Distribution of orexin/hypocretin immunoreactivity in the nervous system of the green treefrog, *Hyla cinerea*. *Brain Res.*, 1041: 231– 236.
- Lynch, K. S., and W. Wilczynski (2005) Gonadal steroid fluctuations in a tropically breeding female anuran. *Gen. Comp. Endocrinol.*, 143: 51-56.
- Witte, K., H. E. Harris, M.J. Ryan, and W. Wilczynski (2005) How cricket frog females deal with a noisy world: evidence for environmental selection on tuning. *Behav. Ecol.*, 16:571–579.
- Burmeister, S., W. Wilczynski (2005) Social signals regulate gonadotropin-releasing hormone neurons in the green treefrog. *Brain Behav. Evol.* 65:26-32.
- Lynch, K. S., A. S. Rand, M. J. Ryan, and W. Wilczynski (2005) The influence of reproductive stage in producing within-individual plasticity in female mate choice. *Anim. Behav.* 69: 689–699.
- Hoke, K. L. S. S. Burmeister, R. D. Fernald, A. S. Rand, M. J. Ryan, and W. Wilczynski (2004) Functional mapping of the auditory midbrain during mate call reception. *J. Neurosci.* 24:11264 -11272.
- Plavicki, J., E.-J. Yang, and W. Wilczynski (2004) Dominance status predicts response to nonsocial exercise stress in the green anole lizard (*Anolis carolinensis*). *Physiol. Behav.*, 80: 547-555.
- Bosch, J., and W. Wilczynski (2003) The auditory tuning of the Iberian midwife toad, *Alytes cisternasii*. *Herpetological J.*, 13: 53-57.
- Yang, E. J., and W. Wilczynski (2003) Interaction effects of corticosterone and experience on aggressive behavior in the green anole lizard. *Horm. Behav.*, 44: 281-292.
- Day, L. B., N. Ishmail, and W. Wilczynski (2003) Use of left/right praxis and features as cues in discrimination learning by the lizard *Cnemidophorus inornatus*. *J. Comp. Psychol.*, 117: 440-448.

- Wilczynski, W., E.-J. Yang, and D. Simmons (2003) Sex differences and hormone influences on tyrosine hydroxylase immunoreactive cells in the leopard frog. *J. Neurobiol.*, 56: 54-65.
- Yang, E. J., and W. Wilczynski (2002) Relationships between hormones and aggressive behavior in green anole lizards: An analysis using structural equation modeling. *Horm. Behav.*, 42: 192-205.
- Burmeister, S., A. G. Ophir, M. J. Ryan, and W. Wilczynski (2002) Information transfer during cricket frog contests. *Anim. Behav.*, 64: 715-725.
- Chu, J.C., and W. Wilczynski. (2002) Androgen effects on tyrosine hydroxylase cells in the forebrain in the Northern leopard frog. *Neuroendocrinology*, 76: 18-27.
- Wilczynski, W., A. S. Rand, and M. J. Ryan (2001) Evolution of calls and auditory tuning in the *Physalaemus pustulosus* species group. *Brain Behav. Evol.*, 58: 137-151.
- Burmeister, S., and W. Wilczynski (2001) Social context influences androgenic effects on calling in the green treefrog (*Hyla cinerea*). *Horm. Behav.*, 40: 550-558.
- Chu, J.C., W. Wilczynski, and R. Wilcox (2001) Pharmacological characterization of the D1 and D2-like dopamine receptors from the brain of the leopard frog, *Rana pipiens*. *Brain Behav. Evol.*, 57: 328-342.
- Yang, E.-J., S. M. Phelps, D. Crews, and W. Wilczynski (2001) The effects of social experience on aggressive behavior in *Anolis carolinensis*. *Ethology*, 107: 777-794.
- Witte, K., M. J. Ryan, and W. Wilczynski (2001) Changes in frequency structure of a mating call decreases its attractiveness to females in the cricket frog *Acris crepitans blanchardi*. *Ethology*, 107: 685-700.
- Burmeister, S., C. Somes, and W. Wilczynski (2001) Behavioral and hormonal consequences of exogenous vasotocin and corticosterone in the green treefrog. *Gen. Comp. Endocrinol.*, 122: 189-197.
- Chu, J., and W. Wilczynski (2001). Social influences on androgen levels in the southern leopard frog, *Rana sphenocephala*. *Gen. Comp. Endocrinol.*, 121: 66-73.
- Day, L. B., D. Crews, and W. Wilczynski (2001). Effects of medial and dorsal cortex lesions on spatial memory in lizards. *Behav. Brain Res.*, 118: 27-42.
- Burmeister, S., and W. Wilczynski (2000). Social signals influence hormones independently of calling behavior in the treefrog (*Hyla cinerea*). *Horm. Behav.*, 38: 201-209.
- Bilbo, S. D., L. B. Day, and W. Wilczynski (2000). Anticholinergic effects in frogs in a Morris water maze analog. *Physiol. Behav.*, 69: 351-357.
- Witte, K., K.-C. Chen, W. Wilczynski, and M. J. Ryan. (2000). The influence of amplexus on phonotaxis in cricket frog *Acris crepitans blanchardi*. *Copeia*, 2000: 257-261.
- Sun, L.-X., W. Wilczynski, A. S. Rand, and M. J. Ryan (2000). Trade-off in short- and long-distance communication in túngara (*Physalaemus pustulosus*) and cricket (*Acris crepitans*) frogs. *Behav. Ecol.*, 11: 102-109.
- Day, L. B., D. Crews, and W. Wilczynski (1999). Relative medial and dorsal cortex volume in relation to foraging ecology in congeneric lizards. *Brain Behav. Evol.*, 54: 314-322.
- Wilczynski, W., A.S. Rand, and M.J. Ryan (1999). Female preferences for temporal order of call components in the túngara frog: A Bayesian analysis. *Anim. Behav.*, 58: 841-851.
- Marler, C.A., S.K. Boyd, and W. Wilczynski (1999) Forebrain neuropeptide correlates of alternative male mating strategies. *Horm. Behav.*, 36: 53-61.
- Burmeister, S., J. Konieczka, and W. Wilczynski (1999). Agonistic encounters in a cricket frog chorus: Behavioral outcomes vary with local competition and within the breeding season. *Ethology*, 105: 335-347.
- Burmeister, S., W. Wilczynski, and M. J. Ryan (1999). Temporal call changes and prior experience affect graded signaling in the cricket frog. *Anim. Behav.*, 57: 611-618.

- Day, L. B., D. Crews, and W. Wilczynski (1999). Spatial and reversal learning in congeneric lizards with different foraging strategies. *Anim. Behav.*, 57: 395-407.
- Chu, J., C. A. Marler, and W. Wilczynski (1998). The effects of arginine vasotocin on the calling behavior of male cricket frogs in changing social contexts. *Horm. Behav.*, 34: 248-261.
- McClelland, B. E., W. Wilczynski, and M. J. Ryan (1997). Intraspecific variation in larynx and ear morphology in male cricket frogs (*Acris crepitans*). *Biol. J. Linn. Soc.*, 63: 51-67.
- McClelland, B. E., W. Wilczynski, and A. S. Rand (1997). Sexual dimorphism and species differences in the neurophysiology and morphology of the acoustic communication system of two neotropical hylids. *J. Comp. Physiol.*, 180: 451-462.
- McClelland, B. E., W. Wilczynski, and M. J. Ryan (1996). Correlations between call characteristics and morphology in male cricket frogs (*Acris crepitans*). *J. Exp Biol.*, 199: 1907-1919.
- Marler, C. A., J. C. Chu, and W. Wilczynski (1995). Arginine vasotocin increases probability of calling but decreases aggressive nature of calls produced in the cricket frog, *Acris crepitans*. *Horm. Behav.*, 29:554-570.
- Wilczynski, W., A. S. Rand, and M. J. Ryan (1995). The processing of spectral cues in the call analysis system of the túngara frog, *Physalaemus pustulosus*. *Anim. Behav.*, 49:911-929.
- Ryan, M. J., K. M. Warkentin, B. E. McClelland, and W. Wilczynski (1994). Fluctuating asymmetries and advertisement call variation in the cricket frog, *Acris crepitans*. *Behav. Ecol.*, 6:124-131.
- Allison, J. D., and W. Wilczynski (1994). Efferents from the suprachiasmatic nucleus to basal forebrain nuclei in the green treefrog (*Hyla cinerea*). *Brain Behav. Evol.*, 43:129-139.
- Wilczynski, W., J. D. Allison, and C. A. Marler (1993). Sensory pathways linking social and environmental cues to endocrine control regions of the amphibian forebrain. *Brain Behav. Evol.*, 42:252-264.
- Wilczynski, W., B. E. McClelland, and A. S. Rand (1993). Acoustic, auditory, and morphological divergence in three species of neotropical frog. *J. Comp. Physiol.*, 172:425-438.
- Wilczynski, W., A. C. Keddy-Hector, and M. J. Ryan (1992). Call patterns and basilar papilla tuning in cricket frogs. I. Differences among populations and between sexes. *Brain Behav. Evol.*, 39:229-237.
- Keddy-Hector, A. C., W. Wilczynski, and M. J. Ryan (1992). Call patterns and basilar papilla tuning in cricket frogs. II. Intrapopulation variation and allometry. *Brain Behav. Evol.*, 39: 238-246.
- Ryan, M. J., S. A. Perrill, and W. Wilczynski (1992). Auditory tuning and call frequency predict population-based mating preferences in the cricket frog, *Acris crepitans*. *Am. Nat.*, 139: 1370-1383.
- Rand, A. S., M. J. Ryan, and W. Wilczynski (1992). Signal redundancy and receiver permissiveness in acoustic mate recognition by the túngara frog, *Physalaemus pustulosus*. *Am. Zool.*, 32:81-90.
- Wilczynski, W. (1992). Auditory and endocrine inputs to forebrain centers in anuran amphibians. *Ethol. Ecol. Evol.*, 4:75-87.
- Allison, J. D., and W. Wilczynski (1991). Thalamic and midbrain auditory projections to the preoptic area and ventral hypothalamus in the green treefrog (*Hyla cinerea*). *Brain Behav. Evol.*, 37:322-331.
- Ryan, M. J., and W. Wilczynski (1991). Evolution of intraspecific variation in the advertisement call of a cricket frog (*Acris crepitans*, Hylidae). *Biol. J. Linn. Soc.*, 43:249-271.

- Ryan, M. J., R. B. Cocroft, and W. Wilczynski (1990). The role of environmental selection in intraspecific divergence of mate recognition signals in the cricket frog, *Acris crepitans*. *Evolution*, 44:1869-1872.
- Crews, D., J. Wade, and W. Wilczynski (1990). Sexually dimorphic nuclei and the bisexual brain. *Brain Behav. Evol.*, 36:262-270.
- Ryan, M. J., J. H. Fox, W. Wilczynski, and A. S. Rand (1990). Sexual selection for sensory exploitation in the frog *Physalaemus pustulosus*. *Nature*, 343:66-67.
- Wilczynski, W., and J. D. Allison (1989). Acoustic modulation of neural activity in the hypothalamus of the leopard frog. *Brain Behav. Evol.*, 33:317-324.
- McClelland, B. E., and W. Wilczynski (1989). Sexually dimorphic laryngeal morphology in *Rana pipiens pipiens*. *J. Morphol.*, 201:293-299.
- Wilczynski, W., M. J. Ryan, and E. A. Brenowitz (1989). The display of the Blue-Black Grassquit: The acoustic advantage of getting high. *Ethology*, 80:218-222.
- McClelland, B. E., and W. Wilczynski (1989). Release call characteristics of male and female *Rana pipiens pipiens*. *Copeia*, 1989:1045-1049.
- Ryan, M. J., and W. Wilczynski (1988). Coevolution of sender and receiver: Effect on local mate preferences in cricket frogs. *Science*, 240:1786-1788.
- Wilczynski, W., and E. A. Brenowitz (1988). Acoustic cues mediate intermale spacing in a neotropical frog. *Anim. Behav.*, 36:1054-1063.
- Ross, K. C., W. Wilczynski, and J. W. Albert (1988). Technical report: A new method for endocranial reconstructions. *Am. J. Physical Anthropol.*, 77:165-168.
- Wilczynski, W., C. Resler, and R. R. Capranica (1987). Tympanic and extratympanic sound transmission in the leopard frog. *J. Comp. Physiol.*, 161:659-669.
- Wilczynski, W. (1986). Sex differences in tuning and their effect on active space. *Brain Behav. Evol.*, 28:83-94.
- Fox, J. H., and W. Wilczynski (1986). The allometry of major CNS divisions: Towards a re-evaluation of somatic brain-body scaling. *Brain Behav. Evol.*, 28:157-169.
- Neary, T. J., and W. Wilczynski (1986). Auditory pathways to the hypothalamus in ranid frogs. *Neurosci. Lett.*, 71:142-146.
- Wilczynski, W. (1984). Central neural systems subserving a homoplaseous periphery. *Am. Zool.*, 24:755-763.
- Wilczynski, W., and R. R. Capranica (1984). The auditory system of anuran amphibians. *Prog. Neurobiol.*, 22:1-38.
- Wilczynski, W., H. Zakon, and E. A. Brenowitz (1984). Acoustic communication in spring peepers: Call characteristics and neurophysiological aspects. *J. Comp. Physiol.*, 155:577-584.
- Brenowitz, E. A., W. Wilczynski, and H. Zakon (1984). Acoustic communication in spring peepers: Environmental and behavioral aspects. *J. Comp. Physiol.*, 155:585-592.
- Rose, G. J., and W. Wilczynski (1984). The anuran superficial reticular nucleus: Evidence for homology with nuclei of the lateral lemniscus. *Brain Res.*, 304:170-172.
- Wilczynski, W., and R. G. Northcutt (1983). Connections of the bullfrog striatum: Afferent organization. *J. Comp. Neurol.*, 214:321-332.
- Wilczynski, W., and R. G. Northcutt (1983). Connections of the bullfrog striatum: Efferent projections. *J. Comp. Neurol.*, 214:333-343.
- Wilczynski, W., and H. Zakon (1982). Transcellular transfer of HRP in the amphibian visual system. *Brain Res.*, 239:29-40.
- Wilczynski, W. (1981). Afferents to the midbrain auditory center in the bullfrog, *Rana catesbeiana*. *J. Comp. Neurol.*, 198:421-434.

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- Wilczynski, W., and R. G. Northcutt (1977). Afferents to the optic tectum of the leopard frog: An HRP study. *J. Comp. Neurol.*, 173:219-230.

OTHER PUBLICATIONS

- Ryan, M.J. and W. Wilczynski (2011) *Introduction to Animal Behavior: An Integrative Approach*. Cold Spring Harbor Press.
- Hoke, K., and W. Wilczynski (2010) Multifunctional neural systems and plasticity in their sensory-motor transformations. In: L. Hermer, ed. *Reciprocal Interactions Among Early Sensory and Motor Areas and Higher Cognitive Networks*. Research Signpost, pp.1-21.
- Wilczynski, W. (2009) Editor's Note. *Brain Behav. Evol.*, 74: 247-248.
- Wilczynski, W. (2009) Evolution, of the Brain: in Amphibians. In: A. B. Butler, ed. *Encyclopedia Reference of Neuroscience*. Springer, Produced as CD.
- Wilczynski, W., and H. Endepols (2007) Central auditory pathways in anuran amphibians: The anatomical basis of hearing and sound communication. In: P. N. Narins , A. S. Feng, R. R. Fay, and A. N. Popper, eds. *Hearing and Sound Communication in Amphibians: Springer Handbook of Auditory Research*. Springer-Verlag, pp. 221-249.
- Wilczynski, W. (2001) Commentary: Allometric links may suggest correlated cytoarchitectonic and neurochemical changes in the brain. *Behav. Brain. Sci.*, 24: 297-298.
- Wilczynski, W. (2001) Meeting report: Unfixed action patterns: Social behavior and the brain. *Trends in Cog. Sci.*, 5: 46-47.
- Wilczynski, W. and J. Chu (2001) Acoustic communication, endocrine control, and the neurochemical systems of the brain. In: M. J. Ryan, ed. *Anuran Communication*. Smithsonian Institution Press, pp.23-35.
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PRESENTATIONS AND POSTERS (2009-present)

- Dunham, L.A., and W. Wilczynski (2014) Arginine vasotocin and social behavior in *Anolis carolinensis*. Society for Integrative and Comparative Biology 3.8.
- Gall, M.D., and W. Wilczynski (2014) Prior experience with conspecific signals enhances auditory midbrain responsiveness to conspecific vocalizations. Society for Integrative and Comparative Biology 61.3.
- Sinkiewicz, D., and W. Wilczynski (2014) Regional expression of *Foxp2* in response to testosterone the brain of the *Hyla cinerea*. Society for Integrative and Comparative Biology P3.193.
- Sinkiewicz, D., and W. Wilczynski (2013) The expression of *foxp2* in the brain of the green treefrog. Society for Neuroscience 584.05.
- Wilczynski, W. (2013) Social and hormonal interactions in the modulation of neural systems underlying reproductive behavior. North American Society for Comparative Endocrinology, S4-1.
- Creighton, A.E., and W. Wilczynski (2013) Dopamine D-2 receptor function in motor behavior in the green treefrog, *Hyla cinerea*. Society for Behavioral Endocrinology, P1.46
- Creighton, A. E., D. M. Sinkiewicz, and W. Wilczynski (2012) Steroid correlations in plasma, tissue, and water samples. Society for Integrative and Comparative Biology, P1.31.
- Dunham, L. A., and W. Wilczynski (2012) Influence of AVT on corticosterone and aggression in lizards. Society for Integrative and Comparative Biology, P1.42.
- Lutterschmidt, D. I., A. R. Maine, and W. Wilczynski (2011) Melatonin and seasonal variation in GnRH: Lessons for interpreting changes in immunoreactive cell number. Society for Integrative and Comparative Biology, P2.121A.
- Lutterschmidt, D. I., S. McHenry, and W. Wilczynski (2011) Inhibition of corticosterone synthesis induces the transition from courtship to feeding behavior in red-sided garter snakes. International Symposium on Amphibian and Reptile Endocrinology and Neurobiology, P.30.
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- Dunham, L. A., and W. Wilczynski (2010) The effects of arginine vasotocin administration on social behavior in the green anole lizard *Anolis carolinensis*. Society for Neuroscience, 513.10.

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- Black, M.P., C. B. Ezeoke, S. J. Salem, M. J. Sabula, and W. Wilczynski (2010) *Anolis carolinensis* male-male agonistic encounters: a three year study of the best predictors for determining dominant/subordinate status. Society for Integrative and Comparative Biology, P1.3.
- Lutterschmidt, D. I., and Wilczynski, W. (2009) Influence of melatonin on arginine vasotocin immunoreactivity in green treefrogs (*Hyla cinerea*). Society for Neuroscience, 684.20.
- Creighton, A. E., Lutterschmidt, D. I., and Wilczynski, W. (2009) Effects of melatonin on tyrosine hydroxylase labeling in the green treefrog (*Hyla cinerea*). Society for Neuroscience, 684.19.
- Dunham, L. A., Lutterschmidt, D. I., and Wilczynski, W. (2009) Kisspeptin-like immunoreactive neuron distribution in the Green Anole (*Anolis carolinensis*). Society for Neuroscience, 684.18.
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