

CURRICULUM VITAE

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EDUCATIONAL AND PROFESSIONAL HISTORY

1. Higher Education

The University of Chicago, 1983-1988, Biopsychology, M.A., 1987; Ph.D., 1988.

Brandeis University, 1979-1983, Physics, Philosophy, A.B. *cum laude*, May, 1983.

2. Professional and Academic Positions

Professor, The University of Iowa, 2001-present.

Associate Professor, The University of Iowa, 1996-2001.

Assistant Professor, The University of Iowa, 1992-1996.

Research Associate, Indiana University - Bloomington, 1988-1992.

Research Assistant, The University of Chicago, 1983-1988.

3. Honors and Awards

F. Wendell Miller Professor, The University of Iowa, 2009-2014.

Regents Award for Faculty Excellence, The University of Iowa, 2009.

Editor-in-Chief, *Behavioral Neuroscience*, 2008-2013.

Starch Faculty Fellow, The University of Iowa, 2006-2009.

President, International Society for Developmental Psychobiology (ISDP), 2007-2008.

Fellow, American Psychological Association (APA), Division 6 (Behavioral Neuroscience and Comparative Psychology), 2005.

Independent Scientist Award (K02), National Institute of Mental Health, 2002-2012.

Associate Editor, *Behavioral Neuroscience*, 2001-2007.

Faculty Scholar Award, The University of Iowa, 1999-2002.

American Psychological Association (APA) Distinguished Scientific Award for an Early Career Contribution to Psychology in the area of animal learning and behavior, comparative, 1997.

Editorial Board, *Developmental Psychobiology*, 1997-present.

Graduate Fellowship, The University of Chicago, 1983-1988.

4. Memberships

American Psychological Association

International Society for Developmental Psychobiology

Sleep Research Society

Society for Neuroscience

SCHOLARSHIP

1. Publications

a. Journals

Mohns, E. J., & Blumberg, M. S. Neocortical activation of the hippocampus during sleep in newborn rats. Submitted.

Karlsson, K. Æ., Arnardóttir, H., Robinson, S. R., Schwab, M., Nathanielsz, P. W., and Blumberg, M. S. Dynamics of sleep-wake cyclicity across the fetal period in sheep (*Ovis aries*). Submitted.

Todd, W. D., Gibson, J. L., Shaw, C. S., and Blumberg, M. S. Brainstem and hypothalamic regulation of sleep pressure and rebound in newborn rats. Submitted.

Marcano-Reik, A. J., Prasad, T., Weiner, J. A., & Blumberg, M. S. What a difference a day makes: Abrupt developmental disappearance of callosally mediated inhibition of cortical activity in newborn rats. Submitted.

Wasserman, E. A., and Blumberg, M. S. Evolution of the monkey crouch. *Science*, 325: 812 (Aug. 14), 2009.

Spencer, J. P., Samuelson, L. K., Blumberg, M. S., McMurray, R., Robinson, S. R., and Tomblin, J. B. Seeing the world through a third eye: Developmental systems theory looks beyond the nativist-empiricist debate. *Child Development Perspectives*, 3: 103-105, 2009.

Spencer, J. P., Blumberg, M. S., McMurray, R., Robinson, S. R., Samuelson, L. K., and Tomblin, J. B. Short arms and talking eggs: Why we should no longer abide the nativist-empiricist debate. *Child Development Perspectives*, 3: 79-87, 2009.

Gall, A. J., Joshi, B., Best, J., Florang, V. R., Doorn, J. A., & Blumberg, M. S. Developmental emergence of power-law wake behavior depends upon the functional integrity of the locus coeruleus. *Sleep*, 32: 920-926, 2009.

Blumberg, M. S. "Evolution shapes systems, not just genes." *Nature*, 457: 785 (Feb. 12), 2009.

Marcano-Reik, A. J., & Blumberg, M. S. The corpus callosum modulates spindle-burst activity within homotopic regions of somatosensory cortex in newborn rats. *European Journal of Neuroscience*, 28: 1457-1466, 2008.

Mohns, E. J., & Blumberg, M. S. Synchronous bursts of neuronal activity in the developing hippocampus: Modulation by active sleep and association with emerging gamma and theta rhythms. *Journal of Neuroscience*, 28: 10134-10144, 2008.

Selected for Faculty of 1000 Biology

Gall, A. J., Todd, W. D., Ray, B., Coleman, C. M., & Blumberg, M. S. The development of day-night differences in sleep and wakefulness in Norway rats and the effect of bilateral enucleation. *Journal of Biological Rhythms*, 23: 232-241, 2008.

Seelke, A. M. H., & Blumberg, M. S. The microstructure of active and quiet sleep as cortical delta activity emerges in infant rats. *Sleep*, 31: 691-699, 2008.

Mohns, E. J., Karlsson, K. Æ., & Blumberg, M. S. Developmental emergence of transient and persistent hippocampal events and oscillations and their association with infant seizure susceptibility. *European Journal of Neuroscience*, 26: 2719-2730, 2007.

Blumberg, M. S., Karlsson, K. Æ., & Seelke, A. M. H. Sleep, development, and human health. *Sleep*, 30: 549-550, 2007.

Blumberg, M. S. Anthropomorphism and evidence (invited commentary). *Comparative Cognition & Behavior Reviews*, 2: 145-146, 2007.

Gall, A. J., Poremba, A., & Blumberg, M. S. Brainstem cholinergic modulation of sleep and wakefulness in infant rats. *European Journal of Neuroscience*, 25: 3367-3375, 2007.

Blumberg, M. S., Coleman, C., Johnson, E. D., & Shaw, C.. Developmental divergence of sleep-wake patterns in orexin knockout and wild-type mice. *European Journal of Neuroscience*, 25: 512-518, 2007.

Wasserman, E. A., & Blumberg, M. S. Designing minds (commentary). *APS Observer*, 19 (10): 25-26, 2006.

- Karlsson, K. Æ., Mohns, E. J., Vianna di Prisco, G., & Blumberg, M. S. On the co-occurrence of startles and hippocampal sharp waves in newborn rats. *Hippocampus*, 16: 959-965, 2006.
- Mohns, E. J., Karlsson, K. Æ., & Blumberg, M. S. The preoptic hypothalamus and basal forebrain play opposing roles in the descending modulation of sleep and wakefulness in infant rats. *European Journal of Neuroscience*, 23: 1301-1310, 2006.
- Blumberg, M. S., Seelke, A. M. H., Lowen, S. B., & Karlsson, K. Æ. Dynamics of sleep-wake cyclicality in developing rats. *Proceedings of the National Academy of Sciences*, 102: 14860-14864, 2005.
- Middlemis-Brown, J. E., Johnson, E. D., and Blumberg, M. S. Separable brainstem and forebrain contributions to ultrasound production in infant rats. *Behavioral Neuroscience*, 119: 1111-1117, 2005.
- Kreider, J. C., & Blumberg, M. S. Geotaxis and beyond: Commentary on Motz and Alberts (2005). *Neurotoxicology and Teratology*, 27: 535-537, 2005.
- Seelke, A. M. H., Karlsson, K. Æ., Gall, A. J., & Blumberg, M. S. Extraocular muscle activity, rapid eye movements, and the development of active and quiet sleep. *European Journal of Neuroscience*, 22: 911-920, 2005.
- Karlsson, K. Æ., Gall, A. J., Mohns, E. J., Seelke, A. M. H., & Blumberg, M. S. The neural substrates of infant sleep in rats. *PLoS Biology*, 3: 891-901, 2005.
- Blumberg, M. S., Johnson, E. D., and Middlemis-Brown, J. E. Inhibition of ultrasonic vocalizations by beta-adrenoceptor agonists. *Developmental Psychobiology*, 47: 66-76, 2005.
- Seelke, A. H., & Blumberg, M. S. Thermal and nutritional modulation of sleep in infant rats. *Behavioral Neuroscience*, 19: 603-611, 2005.
- Blumberg, M. S., Karlsson, K. Æ., Seelke, A. M. H., & Mohns, E. J. The ontogeny of mammalian sleep: A response to Frank and Heller (2003). *Journal of Sleep Research*, 14: 91-101, 2005.
- Karlsson, K. Æ., & Blumberg, M. S. Active medullary control of atonia in week-old rats. *Neuroscience*, 130: 275-283, 2005.
- Blumberg, M. S., Middlemis-Brown, J. E., and Johnson, E. D. Sleep homeostasis in infant rats. *Behavioral Neuroscience*, 118: 1253-1261, 2004.
- Seelke, A. H., & Blumberg, M. S. Sniffing during sleep and wakefulness in infant rats. *Behavioral Neuroscience*, 118: 267-273, 2004.
- Karlsson, K. Æ., & Blumberg, M. S. Temperature-induced reciprocal activation of infant hippocampal field activity. *Journal of Neurophysiology*, 91: 583-588, 2004.
- Karlsson, K. Æ., Kreider, J. C., & Blumberg, M. S. Hypothalamic contribution to sleep-wake cycle development. *Neuroscience*, 123: 575-582, 2004.
- Blumberg, M. S., & Sokoloff, G. Hard heads and open minds: A reply to Panksepp. *Psychological Review*, 110: 389-394, 2003.

- Karlsson, K. Æ., & Blumberg, M. S. Hippocampal theta in the newborn rat is revealed under conditions that promote REM sleep. *Journal of Neuroscience*, 23: 1114-1118, 2003.
- Karlsson, K. Æ., & Blumberg, M. S. The union of the state: Myoclonic twitching is coupled with nuchal muscle atonia in infant rats. *Behavioral Neuroscience*, 116: 912-917, 2002.
- Sokoloff, G., & Blumberg, M. S. Contributions of endothermy to huddling behavior in infant Norway rats (*Rattus norvegicus*) and Syrian golden hamsters (*Mesocricetus auratus*). *Journal of Comparative Psychology*, 116: 240-246, 2002.
- Sokoloff, G., Blumberg, M. S., Boline, E. A., Johnson, E. D., & Streeper, N. M. Thermoregulatory behavior in infant Norway rats (*Rattus norvegicus*) and Syrian golden hamsters (*Mesocricetus auratus*): Arousal, orientation, and locomotion. *Journal of Comparative Psychology*, 116: 228-239, 2002.
- Blumberg, M. S., Lewis, S. J., & Sokoloff, G. Incubation temperature modulates post-hatching thermoregulatory behavior in the Madagascar ground gecko, *Paroedura pictus*. *Journal of Experimental Biology*, 205: 2777-2784, 2002.
- Blumberg, M. S., Sokoloff, G., Kirby, R. F., Knoot, T. G., & Lewis, S. J. Effects of antihypertensive drugs on ultrasound production and cardiovascular responses in 15-day-old rats. *Behavioural Brain Research*. 131: 37-46, 2002.
- Blumberg, M. S., Knoot, T. G., & Kirby, R. F. Neural and hormonal control of arterial pressure during thermal challenge in unanesthetized infant rats. *American Journal of Physiology*. 281: R1514-R1521, 2001.
- Sokoloff, G., & Blumberg, M. S. Competition and cooperation among huddling infant rats. *Developmental Psychobiology*, 39: 65-75, 2001.
- Blumberg, M. S., & Sokoloff, G. Do infant rats cry? *Psychological Review*, 108: 83-95, 2001.
- Kreider, J. C., & Blumberg, M. S. Mesopontine contribution to the expression of active “twitch” sleep in decerebrate week-old rats. *Brain Research*, 872: 149-159, 2000.
- Sokoloff, G., Blumberg, M. S., & Adams, M. M. A comparative analysis of huddling in infant Norway rats and Syrian golden hamsters: Does endothermy modulate behavior? *Behavioral Neuroscience*, 114: 585-593, 2000.
- Blumberg, M. S., Kreber, L., Sokoloff, G., Kent, K. Cardiovascular mediation of clonidine-induced ultrasound production in infant rats. *Behavioral Neuroscience*: 114: 602-608, 2000.
- Robinson, S. R., Blumberg, M. S., Lane, M., & Kreber, L. Spontaneous motor activity in fetal and infant rats is organized into discrete multilimb bouts. *Behavioral Neuroscience*: 114: 328-336, 2000.
- Blumberg, M. S., Sokoloff, G., & Kent, K. J. A developmental analysis of clonidine's effects on cardiac rate and ultrasound production in infant rats. *Developmental Psychobiology*: 36: 186-193, 2000.
- Blumberg, M. S., & Sokoloff, G., Kirby, R. F., & Kent, K. J. Distress vocalizations in infants: What’s all the fuss about? *Psychological Science*, 11: 78-81, 2000.
- Blumberg, M. S., Sokoloff, G., & Kent, K. J. Cardiovascular concomitants of ultrasound production during cold exposure in infant rats. *Behavioral Neuroscience*, 113: 1274-1282, 1999.

- Kirby, R. F., Sokoloff, G., Perdomo, E., & Blumberg, M. S. Thermoregulatory and cardiac responses of infant spontaneously hypertensive and Wistar-Kyoto rats to cold exposure. *Hypertension*, 33: 1465-1469, 1999.
- Kreider, J. C., & Blumberg, M. S. Geotaxis in two-week-old Norway rats (*Rattus norvegicus*): A reevaluation. *Developmental Psychobiology*, 35: 35-42, 1999.
- Blumberg, M. S., Deaver, K., & Kirby, R. F. Leptin disinhibits BAT thermogenesis in infants after maternal separation. *American Journal of Physiology*, 276: R606-R610, 1999.
- Sokoloff, G., & Blumberg, M. S. Active sleep in cold-exposed infant Norway rats and Syrian golden hamsters: The role of brown adipose tissue thermogenesis. *Behavioral Neuroscience*, 112: 695-706, 1998.
- Sokoloff, G., Kirby, R. F., & Blumberg, M. S. Further evidence that BAT thermogenesis modulates cardiac rate in infant rats. *American Journal of Physiology*, 274: R1712-1717, 1998.
- Blumberg, M. S., & Sokoloff, G. Thermoregulatory competence and behavioral expression in the young of altricial species -- Revisited. *Developmental Psychobiology*, 33: 107-123, 1998.
- Kirby, R. F., & Blumberg, M. S. Maintenance of arterial pressure in infant rats during moderate and extreme thermal challenge. *Developmental Psychobiology*, 32: 169-176, 1998.
- Blumberg, M. S. Ontogeny of cardiac rate regulation and brown fat thermogenesis in golden hamsters (*Mesocricetus auratus*). *Journal of Comparative Physiology B*, 167: 552-557, 1997.
- Blumberg, M. S., & Sokoloff, G. Dynamics of brown fat thermogenesis in week-old rats: Evidence of relative stability during moderate cold exposure. *Physiological Zoology*, 70: 324-330, 1997.
- Blumberg, M. S., Sokoloff, G., & Kirby, R. F. Brown fat thermogenesis and cardiac rate regulation during cold challenge in infant rats. *American Journal of Physiology*, 272: R1308-R1313, 1997.
- Sokoloff, G., & Blumberg, M. S. Thermogenic, respiratory, and ultrasonic responses of week-old rats across the transition from moderate to extreme cold exposure. *Developmental Psychobiology*, 30: 181-194, 1997.
- Blumberg, M. S., & Wasserman, E. A. Animals have minds? *American Psychologist*, 51: 59-60, 1996.
- Blumberg, M. S., & Stolba, M. A. Thermogenesis, myoclonic twitching, and ultrasonic vocalization in neonatal rats during moderate and extreme cold exposure. *Behavioral Neuroscience*, 110: 305-314, 1996.
- Blumberg, M. S., & Lucas, D. E. A developmental and component analysis of active sleep. *Developmental Psychobiology*, 29: 1-22, 1996.
- Blumberg, M. S., Schalk, S. L., & Sokoloff, G. Pontine and basal forebrain transections disinhibit brown fat thermogenesis in neonatal rats. *Brain Research*, 699: 214-220, 1995.
- Gagliardi, J. L., Kirkpatrick-Steger, K. K., Thomas, J., Allen, G. J., & Blumberg, M. S. Seeing and knowing: Knowledge attribution versus stimulus control in adult humans (*Homo sapiens*). *Journal of Comparative Psychology*, 109: 107-114, 1995.

- Blumberg, M. S., & Wasserman, E. A. Animal mind and the argument from design. *American Psychologist*, 50: 133-144, 1995.
- Blumberg, M. S., & Lucas, D. E. Dual mechanisms of twitching during sleep in neonatal rats. *Behavioral Neuroscience*, 108: 1196-1202, 1994.
- Blumberg, M. S., Efimova, I. V., & Alberts, J. R. Thermogenesis during ultrasonic vocalization by rat pups isolated in a warm environment: A thermographic analysis. *Developmental Psychobiology*, 25: 497-510, 1992.
- Blumberg, M. S., Mennella, J. A., McClintock, M. K., & Moltz, H. Facultative sex ratio adjustment in Norway rats: Litters born asynchronously are female-biased. *Behavioral Ecology and Sociobiology*, 31: 401-408, 1992.
- Blumberg, M. S. Rodent ultrasonic short calls: Locomotion, biomechanics, and communication. *Journal of Comparative Psychology*, 106: 360-365, 1992.
- Blumberg, M. S., & Alberts, J. R. Functions and effects in animal communication: Reactions to Guilford & Dawkins. *Animal Behaviour*, 44: 382-383, 1992.
- Blumberg, M. S., Efimova, I. V., & Alberts, J. R. Ultrasonic vocalizations by rat pups: The primary importance of ambient temperature and the thermal significance of contact comfort. *Developmental Psychobiology*, 25: 229-250, 1992.
- Blumberg, M. S., & Alberts, J. R. Both hypoxia and milk deprivation diminish metabolic heat production and ultrasound emission by rat pups during cold exposure. *Behavioral Neuroscience*, 105: 1030-1037, 1991.
- Blumberg, M. S. Prostaglandin E₂ accelerates sexual behavior in male rats. *Physiology and Behavior*, 50: 95-99, 1991.
- Blumberg, M. S., & Alberts, J. R. On the significance of similarities between ultrasonic vocalizations of infant and adult rats. *Neuroscience and Biobehavioral Reviews*, 15: 383-390, 1991.
- Blumberg, M. S., & Alberts, J. R. Ultrasonic vocalizations by rat pups in the cold: An acoustic by-product of laryngeal braking? *Behavioral Neuroscience*, 104: 808-817, 1990.
- Mennella, J. A., Blumberg, M. S., McClintock, M. K., & Moltz, H. Inter-litter competition and communal nursing among Norway rats: advantages of birth synchrony. *Behavioral Ecology and Sociobiology*, 27: 183-190, 1990.
- Blumberg, M. S. An allometric analysis of hippocampal theta: The significance of brain metabolic rate. *Brain, Behavior and Evolution*, 34: 351-356, 1989.
- Blumberg, M. S., & Moltz, H. How the nose cools the brain during copulation in the male rat. *Physiology and Behavior*, 43: 173-176, 1988.
- Blumberg, M. S., & Moltz, H. Hypothalamic temperature and the 22 kHz vocalization of the male rat. *Physiology and Behavior*, 40: 637-640, 1987.

Blumberg, M. S., Mennella, J. A., & Moltz, H. Hypothalamic temperature and deep body temperature during copulation in the male rat. *Physiology and Behavior*, 39: 367-370, 1987.

Wingfield, A., Milstein, G., & Blumberg, M. S. Cerebral specialization and hemispheric performance asymmetries in narrative memory. *Perceptual and Motor Skills*, 59: 39-42, 1984.

b. Chapters

Blumberg, M. S. Phenomenology and function of myoclonic twitching in developing rats. To appear in *Rapid eye movement sleep: Regulation and function*, edited by B. N. Mallick, S. R. Pandi-Perumal, R. W. McCarley, and A. Morrison, Cambridge: Cambridge University Press.

Marcano-Reik, A. J., & Blumberg, M. S. Neuroscience. To appear in: *The Corsini Encyclopedia of Psychology and Behavioral Science*. Hoboken: John Wiley.

Blumberg, M. S., & Seelke, A. M. H. The form and function of infant sleep: From muscle to neocortex. In: *The Oxford Handbook of Developmental Behavioral Neuroscience*, edited by M. S. Blumberg, J. H. Freeman, and S. R. Robinson. New York: Oxford University Press, 2009, pp. 391-423.

Blumberg, M. S., & Freeman, J. H., and Robinson, S. R. Introduction: A new frontier for developmental behavioral neuroscience. In: *The Oxford Handbook of Developmental Behavioral Neuroscience*, edited by M. S. Blumberg, J. H. Freeman, and S. R. Robinson. New York: Oxford University Press, 2009, pp. 1-4.

Blumberg, M. S., & Seelke, A. M. H. The form and function of infant sleep: From muscle to neocortex. To appear in: *The Oxford Handbook of Developmental Behavioral Neuroscience*, edited by M. S. Blumberg, J. H. Freeman, and S. R. Robinson. New York: Oxford University Press, in press.

Mohns, E. J., & Blumberg, M. S. Hippocampal EEG in the neonatal rat: Development of normal and pathological activity. In: *Encyclopedia of Basic Epilepsy Research*, Vol. 2, edited by P. A. Schwartzkroin. Oxford: Academic Press, 2009, pp. 1061-1065.

Sokoloff, G., & Blumberg, M. S. Vocalization. *The Behaviour of the Laboratory Rat: A Handbook With Tests*, edited by B. Kolb and I. Q. Whishaw. Oxford: Oxford University Press. 2004, pp. 371-380.

Blumberg, M. S. Behavioral thermoregulation. In: *Encyclopedia of Animal Behavior*, edited by M. Bekoff. Westport, CT: Greenwood Press, 2004, pp. 104-107.

Blumberg, M. S. The developmental context of thermal homeostasis. *The Handbook of Behavioral Neurobiology, Volume 13, Developmental Psychobiology, Developmental Neurobiology and Behavioral Ecology: Mechanisms and Early Principles*, edited by E. M. Blass. New York: Plenum Press, 2001, pp. 199-228.

Blumberg, M. S., & Alberts, J. R. Incidental emissions, fortuitous effects, and the origins of communication. *Perspectives in Ethology, Volume 12*, edited by D. H. Owings, M. D. Beecher, and N. S. Thompson. New York, Plenum Press, 1997, pp. 225-249.

c. Papers Submitted or In Preparation

Seelke, A. M. H., & Blumberg, M. S. Developmental appearance and disappearance of cortical events and oscillations in infant rats. Submitted.

d. Periodicals

Wasserman, E. A., and Blumberg, M. S. After thought. *Seed Magazine*, in press.

Blumberg, M. S. The animal zealotry that destroyed our lab. *The Washington Post*, Sunday Outlook, July 17, 2005.

Blumberg, M. S. A few degrees of separation. *The Sunday Times* (London), May 26, 2002.

e. Book Reviews

Blumberg, M. S. Review of “Temperature regulation in laboratory rodents,” by C. J. Gordon. *Animal Behaviour*, 48: 996-997, 1994.

f. Books

Blumberg, M. S., Freeman, J. H., and Robinson, S. R. (eds.) *The Oxford Handbook of Developmental Behavioral Neuroscience*. Forthcoming from Oxford University Press.

Blumberg, M. S. *Freaks of nature: What anomalies tell us about development and evolution*. New York: Oxford University Press, 2009.

Reviewed in *Science*, *Nature*, *The Scientist*, *Chronicle of Higher Education*, *Boldtype*, *New Scientist*, *Science News*, *io9*, *Discover*, *Daily Telegraph*, *Financial Times*, *Neurotopia (blog)*, *Evolving Thoughts (blog)*, *The Guardian*, *Choice*, *Skeptical Inquirer*, *Doody’s Health Sciences Review*, *Journal of Clinical Investigation*.

Korean Translation: Alma, Inc.

Blumberg, M. S. *Basic instinct: The genesis of behavior*. New York: Thunder’s Mouth Press, 2005.

Reviewed in *Publisher’s Weekly*, *Science News*, *Developmental Psychobiology*, *The Quarterly Review of Biology*, *Scientific American Mind*, *AAAS Science Books and Films*, *Journal of Behavioral Finance*.

Reprinting of Chapter 2, “Designer Thinking,” in *Annual Editions, Physical Anthropology 07/08*, McGraw-Hill.

Japanese Translation: Hayakawa Publishing, Inc.

Korean Translation: Ludens Book

Blumberg, M. S. *Body heat: Temperature and life on Earth*. Cambridge: Harvard University Press, 2002.

Reviewed in *Publisher’s Weekly*, *The Los Angeles Times*, *The Sunday Telegraph* (London), *New Scientist*, *Natural History*, *Science News*, *American Scientist*, *American Scholar*, *Netsurfer*

Science, JAMA, Choice, 2Think.org, Times Literary Supplement (London), Bulletin of the American Meteorological Society, Developmental Psychobiology, M2 Best Books, Northeastern Naturalist, The Physiologist, Canadian Literature, The Quarterly Review of Biology, Journal of Mammalogy.

g. Guest Editing

Dess, N. K., & Blumberg, M. S., co-editors with introduction of a special section entitled “Speaking up, speaking out: Views on advocating for our science.” *International Journal of Comparative Psychology*, 20: 1-24, 2007.

h. Blogs

Blumberg, M. S. August 8, 2009, URL: http://correspondents.theatlantic.com/david_shenk/

Blumberg, M. S. November, 25, 2008, URL: <http://blog.oup.com/2008/11/bridgeless-gaps/>

2. Grants

a. External

Consultant for grants at the University of Pennsylvania (2) and the University of North Carolina at Chapel Hill.

Pending, Principal Investigator, RO1, National Institute of Child Health and Human Development, entitled “Behavioral state development in infants.” Funding from December 1, 2009 to October 31, 2014. Total direct costs over five years: \$1,250,000.

Principal Investigator, KO2, Independent Scientist Award, National Institute of Mental Health, entitled “Homeostasis and behavioral state organization in infants.” (MH66424; Priority score = 130). Funding from July 1, 2007 to June 30, 2012. Total direct costs over five years: \$537,500.

Principal Investigator, RO1, National Institute of Mental Health, entitled “Behavioral state development in infants.” (MH50701; Priority score = 126; Percentile = 4.1). Funding from January 10, 2005 to December 31, 2009. Total direct costs over five years: \$900,000.

Principal Investigator, KO2, Independent Scientist Award, National Institute of Mental Health, entitled “Homeostasis and behavioral state organization in infants.” (MH66424; Priority score = 161) Funding from September 1, 2002 to June 30, 2007. Total direct costs over five years: \$513,852.

Principal Investigator, RO1, National Institute of Mental Health, entitled “Endothermy and behavioral thermoregulation in infants” (MH50701; Priority score = 158; Percentile = 9.3). Funding from April 1, 2000 to March 31, 2004. Total direct costs over four years: \$600,000.

Principal Investigator, RO1, National Institute of Child Health and Human Development, entitled “Cardiovascular concomitants of ultrasonic vocalizations” (HD38708; Priority score = 134; Percentile = 3.8). Funding from March 21, 2000 to February 28, 2003 (no-cost extension to 2/28/04). Total direct costs over three years: \$405,000.

Minority supplement for Necole M. Streeper, 2001-2003. Total direct costs over two years: \$27,928.

Principal Investigator, R29, FIRST Award, National Institute of Mental Health, entitled "Development of autonomic and behavioral thermoregulation" (MH50701; Priority score = 122; Percentile = 2.1). Funding from May 1, 1994 to April 30, 1999. Total direct costs over five years: \$349,924.

Minority supplement for Joy C. Kreider, 1997-1999. Total direct costs over two years: \$36,187.

Co-Investigator with Dr. Jeffrey Alberts (PI), RO1, National Institute of Child Health and Human Development, entitled "Thermal imaging of perinatal behavior and physiology," 1991-1994. Total direct costs over 3 years = \$133,956.

b. Internal

Iowa Center for Research by Undergraduates (ICRU) Summer Research Fellows Program, \$2500 stipend to support Cassandra Coleman, summer, 2007.

Faculty Scholar Award, 1999-2002, includes a 50% reduction in teaching and service for three consecutive years, as well as modest (\$2,000-\$4,500) support for research from the Office of the Provost.

Old Gold Summer Fellowship, University of Iowa, Summer, 1993.

3. Invited Lectures, Colloquia, and Conference Presentations

a. Invited Lectures, Colloquia

Animal Models of SIDS Workshop, sponsored by the National Institute of Child Health and Human Development, Washington, D.C., October, 1990.

Invited colloquium, Department of Psychology, Duke University, 1991.

Invited colloquium, Department of Psychology, The University of Iowa, 1991.

Invited colloquium at the Center for Developmental Psychobiology, "The squeaky wheel gets the grease, and other deep thoughts on animal communication," State University of New York at Binghamton, February, 1993.

Invited colloquium, "The developmental context of homeostasis," Department of Psychology, The University of Chicago, January 15, 1998.

Invited workshop, "Developmental approaches to the study of REM sleep," Department of Psychology, The University of Chicago, January 16, 1998.

- Invited speaker for the Brain Awareness Week Symposium, “To sleep, perchance to twitch,” The University of Iowa, March 26, 1998.
- Invited symposium discussant, “Emergence of motor organization in the fetus and neonate: Congruent themes in human and animal models,” 11th Biennial International Conference on Infant Studies (ICIS), Atlanta, Georgia, April, 1998.
- Award address, “The developmental context of sleep and homeostasis,” American Psychological Association, San Francisco, California, August, 1998.
- Departmental colloquium with Gregg Oden, “Why is the concept of set point so unsettling?” Department of Psychology, The University of Iowa, Iowa City, Iowa, February 3, 1999.
- Departmental colloquium, “What distinguishes a good department from a great department? An open discussion.” Department of Psychology, The University of Iowa, Iowa City, Iowa, May 5, 1999.
- Departmental colloquium, “Cardiovascular causes and consequences of ultrasonic ‘crying’ in infant rats.” Department of Psychology, The University of Iowa, Iowa City, Iowa, September 8, 1999.
- Invited colloquium, “Cardiovascular causes and consequences of ultrasonic ‘crying’ in infant rats.” Department of Biological Sciences, The University of Iowa, Iowa City, Iowa, March 31, 2000.
- Departmental colloquium, “Leading with your chin: Dissecting the components of behavioral thermoregulation in infant rats and hamsters.” Department of Psychology, The University of Iowa, Iowa City, Iowa, October 11, 2000.
- Invited colloquium, “Do infant rats cry? Recent developments in an ongoing controversy.” Midwestern Psychological Association, May, 2001.
- Invited colloquium, “Do infant rats cry? And why should we care?” Saturday Scholars Program, College of Liberal Arts, The University of Iowa, October 6, 2001.
- Invited colloquium, “Do infant rats cry? And why should we care?” Department of Psychology, University of California at Davis, December 4, 2001.
- Invited colloquium, “The pup who came in from the cold: Explorations in physiological ecology.” Ecology, Evolutionary Biology, and Behavior Program, Michigan State University, February 12, 2003.
- Invited colloquium, “Dissecting the neural substrates of sleep in infant rats.” Neuroscience Program, Michigan State University, February 13, 2003.
- Departmental colloquium, “What can infant rats teach us about sleep, cataplexy, orexin, and the hippocampus?” Department of Psychology, The University of Iowa, Iowa City, Iowa, March 5, 2003.
- Departmental colloquium, “Do infants really sleep? And do they really need it?” Department of Psychology, The University of Iowa, Iowa City, Iowa, Feb. 22, 2004.
- Invited colloquium, “In search of the elemental sleep circuit.” Neuroscience Program, Albert Einstein College of Medicine, Bronx, New York, April 7, 2004.

- Invited participant, Pediatric Epilepsy Workshop, Sponsored by NINDS, Bethesda, Maryland, May 13-14, 2004.
- Invited colloquium, "In search of the elemental sleep circuit." Department of Psychology, University of Tennessee, October 13, 2005.
- Departmental colloquium, "Unraveling the mysteries of infant sleep." Department of Psychology, The University of Iowa, Iowa City, Iowa, Feb. 23, 2005.
- Invited colloquium, "Unraveling the mysteries of infant sleep." Department of Psychology and the Center for the Integrative Study of Animal Behavior, Indiana University, February 25, 2005.
- Invited colloquium, "Unraveling the mysteries of infant sleep." Department of Neurosurgery, University of Iowa Hospitals and Clinics, May 27, 2005.
- APA fellow presentation, "Unraveling the mysteries of infant sleep." Annual Conference of the American Psychological Association, Washington, DC, August, 2005.
- Invited colloquium, "The ontogeny of mammalian sleep: From muscle to neocortex." University of Massachusetts, Amherst, MA, December 6, 2005.
- Invited colloquium, "The form and function of infant sleep: From muscle to neocortex." New York University, New York, NY, December 14, 2005.
- Invited colloquium, "The form and function of infant sleep: From muscle to neocortex." Medical College of Wisconsin, Milwaukee, Wisconsin, March 30, 2006.
- Invited colloquium, "Tracking the developmental dynamics of sleep and wakefulness." Workshop on New Approaches to Modeling Sleep/Wake Dynamics and Cognitive Performance, Mathematical Biosciences Institute, Ohio State University, Columbus, Ohio, October 26-27, 2006.
- Invited participant, Consensus meeting on the development of neocortical rhythms, University of Helsinki, Helsinki, Finland, November 10-11, 2006.
- Invited colloquium, "The form and function of infant sleep: From muscle to neocortex." Department of Biological Sciences, The University of Iowa, Iowa City, Iowa, December 1, 2006.
- Invited colloquium, "The form and function of infant sleep: From muscle to neocortex." Mayo Clinic College of Medicine, Rochester, Minnesota, December 5, 2006.
- Invited keynote speaker. "Nativism, evolutionary psychology, and creationism," for symposium entitled "Reconciling nature and nurture in the study of behavior." Indiana University, Bloomington, Indiana, March 23-25, 2007.
- Invited participant and speaker, Neurobiological Basis of Circadian Rhythms Interaction with Complex Behaviors Workshop, Sponsored by NIMH, Bethesda, Maryland, July 22-23, 2008. Talk entitled "Epigenesis of ultradian and circadian sleep-wake rhythms."
- Invited speaker, "Sleep and the development of body, brain, and behavior," for ICDLS workshop entitled "Neural plasticity across multiple time scales," University of Iowa, October, 2008.

- Invited panelist for colloquium entitled “Writing science at the science university,” University of Iowa, October 8, 2008.
- Invited speaker, “Developing creations and creating development,” for symposium entitled “What is the nature of creativity,” Kyoto University, Kyoto, Japan, October, 2008.
- Presidential address, “Developing creations and creating development: Toward a developmental psychobiology of ‘monsters’” International Society for Developmental Psychobiology, Washington, DC, November, 2008.
- Invited colloquium, “Sleep and the development of body, brain, and behavior.” Department of Psychology, Ohio State University, January, 15, 2009.
- Invited Darwin Day address, “Developing creations and creating development: Why monsters matter.” University of Iowa, February 13, 2009.
- Invited discussant, “Are animals sentient beings?” Olbermann Center Dinner Conversations, University of Iowa, April 16, 2009.
- Invited participant, ANR-NSF Meeting on Cognitive, Behavioural and Social Complexity Cognitive Sciences. Reims, France, April 27-28, 2009.
- Invited speaker, “Spontaneous motor activity during active sleep modulates neocortical and hippocampal events and oscillations in newborn rats.” Spring Hippocampal Research Conference, Verona, Italy, June 14-19, 2009.
- Invited speaker, “Sleep and the development of body, brain, and behavior.” Distinguished Speakers in Behavioral and Brain Sciences Seminar Series, Department of Psychology, Cornell University, Ithaca, NY, September 3-4, 2009.
- Invited colloquium, “Sleep and the development of body, brain, and behavior.” Center for Neurobiology and Behavior, University of Pennsylvania, September 11, 2009.
- Invited speaker, “Developing creations and creating development: Why monsters matter.” Mütter Museum at the College of Physicians of Philadelphia, Philadelphia, Pennsylvania, September 11, 2009.

b. Conference Presentations: Talks

- Blumberg, M. S., & Moltz, H. The 22 kHz vocalization of the male rat: evidence for a role in thermoregulation. Animal Behavior Society, Williamstown, Massachusetts, June, 1987.
- Blumberg, M. S., & Moltz, H. Brain temperature, sexual behavior and the 22 kHz vocalization of the male rat. Conference on Reproductive Behavior, Tlaxcala, Mexico, June, 1987.
- Blumberg, M. S., & Alberts, J. R. Ultrasonic vocalizations by rat pups in the cold are an acoustic by-product of increased oxygen consumption. International Society for Developmental Psychobiology, San Francisco, California, October, 1989.

- Blumberg, M. S., & Alberts, J. R. Is there a physiological connection between the 40 kHz vocalization of rat pups and the 22 kHz vocalization of adult rats? International Society for Developmental Psychobiology, Cambridge, England, July, 1990.
- Alberts, J. R., & Blumberg, M. S. Ultrasonic vocalizations as acoustic by-products of laryngeal braking: An overview. International Society for Developmental Psychobiology, New Orleans, Louisiana, November, 1991.
- Blumberg, M. S., & Alberts, J. R. Ultrasonic vocalizations by rat pups: Isolation, huddling, and air temperature. International Society for Developmental Psychobiology, New Orleans, Louisiana, November, 1991.
- Blumberg, M. S., & Alberts, J. R. Reinterpretation of the physiological and communicatory significance of infant rat ultrasonic vocalizations. Symposium on Perinatal Behavior and Physiology. Midwestern Psychological Association, Chicago, Illinois, April, 1992.
- Blumberg, M. S., Efimova, I. V., & Alberts, J. R. Thermal imaging of brown fat activation during pup transfer to a warm environment. International Society for Developmental Psychobiology, Newport Beach, California, October, 1992.
- Blumberg, M. S. Physiological, biomechanical, and evolutionary issues in rodent ultrasonic communication. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 1993.
- Blumberg, M. S. To sleep, perchance to twitch. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 1994.
- Blumberg, M. S., & Lucas, D. E. A developmental approach to the study of REM sleep. International Society for Developmental Psychobiology, Islamorada, Florida, November, 1994.
- Blumberg, M. S. A sleeping tail. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 1995.
- Blumberg, M. S. Does brown fat thermogenesis protect sleep-related behaviors during cold exposure in neonatal rats? International Society for Developmental Psychobiology, San Diego, California, November, 1995.
- Blumberg, M. S. Beyond homeostasis. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 1996.
- Blumberg, M. S., G. Sokoloff, & Kirby, R. F. Infant rat ultrasound as by-product: Cardiovascular considerations. International Society for Developmental Psychobiology, Washington, D.C., November, 1996.
- Sokoloff, G., & Blumberg, M. S., Mendella, P., & Brown, R. E. Clonidine- and separation-induced ultrasound production in infant rats: Cardiovascular interactions. International Society for Developmental Psychobiology, Washington, D.C., November, 1996.
- Kirby, R. F., Sokoloff, G., & Blumberg, M. S. Thermoregulatory responses to cold challenge in infant spontaneously hypertensive and Wistar-Kyoto rats. International Society for Developmental Psychobiology, Washington, D.C., November, 1996.

- Blumberg, M. S. The union of the state. Winter Conference on Current Issues in Developmental Psychobiology, Anguilla, British West Indies, January, 1997.
- Blumberg, M. S. Matters of the heart. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 1997.
- Sokoloff, G., & Blumberg, M. S. Protection of myoclonic twitching by brown adipose tissue in cold-exposed infant rats and hamsters. International Society for Developmental Psychobiology, New Orleans, October, 1997.
- Blumberg, M. S., Sokoloff, G., & Kirby, R. F. BAT thermogenesis contributes directly to the maintenance of cardiac rate in infant rats and hamsters during cold exposure. International Society for Developmental Psychobiology, New Orleans, October, 1997.
- Kirby, R. F., Perdomo, E., Deaver, K., Sokoloff, G., & Blumberg, M. S. Diminished BAT thermogenesis in infant SHR compared to WKY rats. International Society for Developmental Psychobiology, New Orleans, October, 1997.
- Blumberg, M. S. The P word. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 1998.
- Blumberg, M. S., & Sokoloff, G. Cardiovascular changes accompanying cold exposure and ultrasound production in infant rats. International Society for Developmental Psychobiology, Orleans, France, July, 1998.
- Sokoloff, G., & Blumberg, M. S. Comparative aspects of huddling behavior in infant rats and hamsters: Contributions of endogenous heat production. International Society for Developmental Psychobiology, Orleans, France, July, 1998.
- Sokoloff, G., Blumberg, M. S., Kreber, L. A., & Kent, K. J. Does clonidine induce ultrasound production in infant rats via its effects on the cardiovascular system? International Society for Developmental Psychobiology, Coral Gables, Florida, October, 1999.
- Blumberg, M. S., Sokoloff, G., Kirby, R. F., & Kent, K. J. Cardiovascular causes and consequences of ultrasound production in infant rats. International Society for Developmental Psychobiology, Coral Gables, Florida, October, 1999.
- Robinson, S. R., Blumberg, M. S., Lane, M. S., & Kreber, L. A. Spontaneous motor activity of fetal and neonatal rats is organized into discrete multilimb bouts. International Society for Developmental Psychobiology, Coral Gables, Florida, October, 1999.
- Blumberg, M. S. For crying out loud, blood is thicker than water. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 2000.
- Sokoloff, G., Blumberg, M. S., Gorby, T. A., Lewis, S. J., & Kirby, R. F. Sodium nitroprusside decreases blood pressure and evokes ultrasound production in infant rats. International Society for Developmental Psychobiology, New Orleans, November, 2000.
- Blumberg, M. S., Sokoloff, G., Boline, E. A., & Streeper, N. M. Behavioral thermoregulation in infant rats and hamsters. International Society for Developmental Psychobiology, New Orleans, November, 2000.

- Blumberg, M. S. The epigenesis of behavioral thermoregulation in a lizard. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 2001.
- Karlsson, K. Æ., & Blumberg, M. S. Myoclonic twitching and nuchal muscle EMG in infant rats: Implications for the development of REM sleep. International Society for Developmental Psychobiology, San Diego, November, 2001.
- Sokoloff, G., & Blumberg, M. S. The contributions of endothermy to huddling in altricial infants. International Society for Developmental Psychobiology, San Diego, November, 2001.
- Blumberg, M. S. & Bjelica, M. Venous return increases during ultrasonic vocalizations in adult rats: Implications for infant rat ultrasound production. International Society for Developmental Psychobiology, Orlando, October, 2002.
- Blumberg, M. S. Dissecting the neural substrates of sleep in infant rats. Winter Animal Behavior Conference, Jackson Hole, Wyoming, January, 2003.
- Karlsson, K. Æ., Kreider, J. C., & Blumberg, M. S. Hypothalamic contribution to sleep-wake cycle development. International Society for Developmental Psychobiology, New Orleans, November, 2003.
- Blumberg, M. S., Stough, S. D., Middlemis-Brown, J. E., and Johnson, E. D. Cardiopulmonary and thermal factors influencing ultrasonic vocalizations in infant rats. International Society for Developmental Psychobiology, New Orleans, November, 2003.
- Blumberg, M. S., Middlemis-Brown, J. E., and Johnson, E. D. Infant rats deprived of sleep exhibit increased sleep pressure and homeostasis. Associated Professional Sleep Societies, Philadelphia, June, 2004.
- Karlsson, K. Æ., Kreider, J. C., & Blumberg, M. S. Hypothalamic contribution to sleep-wake cycle development. Associated Professional Sleep Societies, Philadelphia, June, 2004.
- Blumberg, M. S. Infant sleep: Problems and mechanisms. Winter Conference on Current Issues in Developmental Psychobiology, Panama, January, 2005.
- Seelke, A. M. H., Karlsson, K. Æ., Gall, A. J., & Blumberg, M. S. The ontogeny of sleep-related phasic activity in the infant rats. International Society for Developmental Psychobiology, Washington, DC, November, 2005.
- Blumberg, M. S. Progress in the study of infant sleep, its development, and its neural substrates. International Society for Developmental Psychobiology, Washington, DC, November, 2005.
- Blumberg, M. S. Sleeping like a baby. Winter Animal Behavior Conference, Steamboat Springs, Colorado, January, 2006.
- Blumberg, M. S. Nativism, evolutionary psychology, and creationism. Midwestern Psychological Association, Chicago, Illinois, May, 2006.
- Seelke, A. M. H., & Blumberg, M. S. Development of state-dependent neocortical activity in infant rats. Associated Professional Sleep Societies, Salt Lake City, Utah, June, 2006.

- Blumberg, M. S., Johnson, E. D., Shaw, C., & Coleman, C. M. Narcolepsy as the reversion to an infantile state of sleep-wake organization. International Society for Developmental Psychobiology, Atlanta, October, 2006.
- Blumberg, M. S. Nativism and creationism. Society for Research in Child Development, Boston, Massachusetts, April 1, 2007.
- Seelke, A. M. H., & Blumberg, M. S. Three novel waveforms exhibit state-dependent activity before the developmental emergence of delta waves in the infant rat cortex. Associated Professional Sleep Societies, Minneapolis, Minnesota, June, 2007.
- Seelke, A. M. H., Marcano-Reik, A. J., & Blumberg, M. S. The infant rat neocortex exhibits multiple forms of state-dependent activity before the emergence of delta waves. International Society for Developmental Psychobiology, San Diego, October, 2007.
- Grobe, J. L., Grobe, C. L., Gall, A. J., Sakai, K., Rahmouni, K., Blumberg, M. S., Johnson, A. K., & Sigmund, C. D. Increased metabolic rate in transgenic mice overexpressing the central Renin-Angiotensin System. Annual High Blood Pressure Research Conference, American Heart Association, Tucson, Arizona, September, 2007.
- Blumberg, M. S. Carpe diem: The epigenesis of diurnality. Winter Animal Behavior Conference, Steamboat Springs, Colorado, January, 2008.
- Mohns, E. J., & Blumberg, M. S. Synchronous bursts of activity in the developing hippocampus: Modulation by active sleep, and association with emerging gamma and theta rhythms. International Society for Developmental Psychobiology, Washington, DC, 2008.
- Gall, A. J., Todd, W. D., Ray, B., Coleman, C. M., & Blumberg, M. S. The development of circadian sleep-wake rhythms in intact and enucleated Norway rats. International Society for Developmental Psychobiology, Washington, DC, 2008.
- Blumberg, M. S. Freaks and sleep. Winter Animal Behavior Conference, Steamboat Springs, Colorado, January, 2009.

c. Conference Presentations: Posters

- Blumberg, M. S., Mennella, J. A., & Moltz, H. Rapid brain cooling following ejaculation in the male rat. Conference on Reproductive Behavior, Montreal, Canada, June, 1986.
- Alberts, J. R., Blumberg, M.S., & Ronca, A. E. Thermal imaging of brown fat activation in perinatal rats. International Society for Developmental Psychobiology, New Orleans, Louisiana, November, 1991.
- Blumberg, M. S. Effect of mid-thoracic spinal transection on the occurrence and coordination of “REM-related” muscular twitches in neonatal rats. International Society for Developmental Psychobiology, Alexandria, Virginia, November, 1993.
- Schalk, S. L., & Blumberg, M. S. Decerebration and BAT thermogenesis in neonatal rats. International Society for Developmental Psychobiology, Islamorada, Florida, November, 1994.

- Blumberg, M. S., & Lucas, D. E. A developmental and component analysis of active sleep. Society for Neuroscience, San Diego, California, November, 1995.
- Sokoloff, G., & Blumberg, M. S. Dynamics of thermogenesis in neonatal rats. International Society for Developmental Psychobiology, San Diego, California, November, 1995.
- Kosinski, C. J., Sokoloff, G., & Blumberg, M. S. Sensory modulation of myoclonic twitching during active sleep in infant rats. International Society for Developmental Psychobiology, Washington, D.C., November, 1996.
- Karlen, S. J., & Blumberg, M. S. Relations between cardiac rate and active sleep behaviors in developing rats. International Society for Developmental Psychobiology, Orleans, France, July, 1998.
- Kreider, J. C., & Blumberg, M. S. Geotaxis in 2-week-old Norway rats (*Rattus Norvegicus*): A reevaluation. International Society for Developmental Psychobiology, Orleans, France, July, 1998.
- Kreider, J. C., & Blumberg, M. S. Effects of pontine and midbrain transections on myoclonic twitching in week-old rats. International Society for Developmental Psychobiology, Coral Gables, Florida, October, 1999.
- Sokoloff, G., Blumberg, M. S., & Kent, K. J. Do cold exposure and clonidine administration stimulate infant rat ultrasound production through similar effects on the cardiovascular system? Society for Neuroscience, Miami Beach, Florida, October, 1999.
- Blumberg, M. S., Sokoloff, G., Kirby, R. F., & Kent, K. J. Increased venous return accompanying clonidine-induced vocalizations in young rats. Society for Neuroscience, Miami Beach, Florida, October, 1999.
- Sokoloff, G., & Blumberg, M. S. An infrared thermographic study of the thermal advantage gained by huddling in infant rats: Contributions of endothermy and behavior. Experimental Biology, San Diego, California, April, 2000.
- Lewis, S. J., Blumberg, M. S., & Sokoloff, G. Sodium nitroprusside-induced venodilation increases ultrasonic vocalization in infant rats. Experiment Biology, San Diego, California, April, 2000.
- Boline, E. A., Sokoloff, G., & Blumberg, M.S. Behavioral responses to thermal stimulation in infant rats and hamsters. International Society for Developmental Psychobiology, New Orleans, November , 2000.
- Kreider, J. C., & Blumberg, M. S. Mesopontine c-fos immunoreactivity during active sleep in week-old rats. International Society for Developmental Psychobiology, New Orleans, November, 2000.
- Lewis, S. J., Blumberg, M. S., & Sokoloff, G. Incubation temperature modulates posthatching thermoregulatory behavior in the Madagascar ground gecko. International Society for Developmental Psychobiology, New Orleans, November, 2000.
- Sokoloff, G., Blumberg, M. S., Lewis, S. J., & Kirby, R. F. Ultrasonic vocalizations and the autonomic nervous system in infant rats. Society for Neuroscience, New Orleans, November, 2000.
- Kreider, J. C., & Blumberg, M. S. Mesopontine contributions to active 'twitch' sleep in infant rats. Society for Neuroscience, New Orleans, November, 2000.

- Kreider, J. C., & Blumberg, M. S. Mesopontine distribution of c-fos immunoreactivity during active sleep in infant rats. Associated Professional Sleep Societies, Chicago, June, 2001.
- Streeper, N. M., Sokoloff, G., & Blumberg, M. S. Effects of maternal contact on ultrasonic vocalizations in infant rats. International Society for Developmental Psychobiology, San Diego, November, 2001.
- Johnson, E. D., & Blumberg, M. S. Orientation responses toward heat localized to the snout during bodily cooling in infant rats and hamsters. International Society for Developmental Psychobiology, San Diego, November, 2001.
- Kreider, J. C., & Blumberg, M. S. Selective electrolytic lesions in the mesopontine region disrupt active sleep in week-old rats. International Society for Developmental Psychobiology, Orlando, October, 2002.
- Karlsson, K. Æ., & Blumberg, M. S. The ontogeny of the hippocampal theta rhythm and its relation with behavioral state. International Society for Developmental Psychobiology, Orlando, October, 2002.
- Kreider, J. C., Blumberg, M. S., & Spencer, J. P. Selective electrolytic lesions in the mesopontine region disrupt active sleep in week-old rats. Society for Neuroscience, Orlando, November, 2002.
- Karlsson, K. Æ., & Blumberg, M. S. Active sleep or REM sleep? Let's call the whole thing off. Society for Neuroscience, Orlando, November, 2002.
- Karlsson, K. Æ., & Blumberg, M. S. Nuchal atonia and hippocampal theta characterize the sleep of rats as young as two days of age. Associated Professional Sleep Societies, Chicago, June, 2003.
- Seelke, A. M. H., & Blumberg, M. S. Double dissociation between sniffing and arousal in infant rats. Society for Neuroscience, New Orleans, November, 2003.
- Blumberg, M. S., Karlsson, K. Æ., & Kreider, J. C. Hypothalamic contribution to sleep cycle development. Society for Neuroscience, New Orleans, November, 2003.
- Karlsson, K. Æ., & Blumberg, M. S. Effects of brain temperature on spontaneous hippocampal activity in anesthetized infant rats. Society for Neuroscience, New Orleans, November, 2003.
- Seelke, A. M. H., & Blumberg, M. S. Double dissociation between sniffing and arousal in infant rats. International Society for Developmental Psychobiology, New Orleans, November, 2003.
- Seelke, A. M. H., & Blumberg, M. S. Sensory threshold increases during active sleep in infant rats. Associated Professional Sleep Societies, Philadelphia, June, 2004.
- Blumberg, M. S., Middlemis-Brown, J. E., & Johnson, E. D. Sleep homeostasis in infant rats. Society for Neuroscience, San Diego, November, 2004.
- Mohns, E. J., Karlsson, K. Æ., & Blumberg, M. S. Hypothalamic modulation of sleep-wake cyclicity in infant rats. Society for Neuroscience, San Diego, November, 2004.
- Seelke, A. M. H., & Blumberg, M. S. Ontogeny of sleep-related phasic activity during early infancy. Society for Neuroscience, San Diego, November, 2004.

- Karlsson, K. Æ., & Blumberg, M. S. Medullary control of REM sleep atonia in infant rats. Society for Neuroscience, San Diego, November, 2004.
- Mohns, E. J., Karlsson, K. Æ., & Blumberg, M. S. The ventrolateral preoptic area and basal forebrain play opposing roles in the descending modulation of sleep-wake cyclicity in infant rats. Associated Professional Sleep Societies, Denver, June, 2005.
- Seelke, A. M. H., Karlsson, K. Æ., & Blumberg, M. S. The ontogeny of spontaneous sleep-related phasic activity in the rat. Associated Professional Sleep Societies, Denver, June, 2005.
- Blumberg, M. S., Karlsson, K. Æ., Seelke, A. M. H., Gall, A. J., & Mohns, E. J. The neural substrates of infant sleep. Associated Professional Sleep Societies, Denver, June, 2005.
- Karlsson, K. Æ., Mohns, E. J., Vianna di Prisco, G., & Blumberg, M. S. Are hippocampal sharp waves and startles causally linked? Society for Neuroscience, Washington, D.C, November, 2005.
- Mohns, E. J., Karlsson, K. Æ., & Blumberg, M. S. Effects of modafinil on developing sleep patterns in infant rats. Society for Neuroscience, Washington, D.C, November, 2005.
- Vianna Di Prisco, G., & Blumberg, M. S. Effects of serotonin depletion on sleep-related motor activity in infant rats. Society for Neuroscience, Washington, D.C, November, 2005.
- Gall, A. J., Poremba, A., & Blumberg, M. S. Contributions of the dorsolateral pontine tegmentum to the regulation of sleep and wakefulness in early infancy. Society for Neuroscience, Washington, D.C, November, 2005.
- Seelke, A. M. H., Freeman, J. H., Jr., & Blumberg, M. S. State-dependent thalamic activity in infant rats and its developmental relations with slow-wave neocortical activity. Society for Neuroscience, Washington, D.C, November, 2005.
- Mohns, E. J., Karlsson, K. Æ., & Blumberg, M. S. Effects of modafinil on developing sleep patterns in infant rats. International Society for Developmental Psychobiology, Washington, DC, November, 2005.
- Ray, B., Gall, A. J., & Blumberg, M. S. Circadian variations in sleep and wakefulness in developing rats. Associated Professional Sleep Societies, Salt Lake City, Utah, June, 2006.
- Viana di Prisco, G., Mohns, E., & Blumberg, M. S. CRF can evoke seizures in infant rats through its effects on the brainstem. Society for Neuroscience, Atlanta, Georgia, October, 2006.
- Mohns, E., Karlsson, K. Æ., & Blumberg, M. S. Development of ripple and gamma frequency oscillations in the neonatal rat hippocampus *in vivo*. Society for Neuroscience, Atlanta, Georgia, October, 2006.
- Gall, A. J., Ray, B., & Blumberg, M. S. Circadian variations in sleep and wakefulness in developing rats. Society for Neuroscience, Atlanta, Georgia, October, 2006.
- Gall, A. J., Ray, B., & Blumberg, M. S. Circadian variations in sleep and wakefulness in developing rats. Society for Neuroscience, Atlanta, Georgia, October, 2006. International Society for Developmental Psychobiology, Atlanta, October, 2006.

- Seelke, A. M. H., & Blumberg, M. S. State-dependent neocortical activity is present before the onset of delta waves in infant rats. International Society for Developmental Psychobiology, Atlanta, October, 2006.
- Mohns, E., Karlsson, K. Æ., & Blumberg, M. S. Transient co-occurrence of ripple- and gamma-frequency oscillations during a period of hyperexcitability in the neonatal rat hippocampus *in vivo*. International Society for Developmental Psychobiology, Atlanta, October, 2006.
- Gall, A. J., Ray, B., Todd, W. D., Coleman, C. M., & Blumberg, M. S. Circadian rhythmicity in normal and enucleated infant rats: Implications for the development of nocturnality and diurnality. 72nd Cold Spring Harbor Laboratories Symposium: Clocks & Rhythms, Cold Spring Harbor, New York, May 30-June 4, 2007.
- Marcano-Reik, A. J., Todd, W. D., Seelke, A. M. H., & Blumberg, M. S. Development, state dependence, and somatotopic organization of neocortical activity during the early postnatal period in rats. International Society for Developmental Psychobiology, San Diego, October, 2007.
- Todd, W. D., & Blumberg, M. S. Sleep regulation in neonatal rats: A reexamination. International Society for Developmental Psychobiology, San Diego, October, 2007.
- Seelke, A. M. H., Marcano-Reik, A. J., & Blumberg, M. S. The infant rat neocortex exhibits multiple forms of state-dependent activity before the emergence of delta waves. Society for Neuroscience, San Diego, November, 2007.
- Joshi, B. S., Best, J. A., Terman, D. H., Blumberg, M. S. (2007). Developmental dynamics of sleep-wake cycles: a mathematical model. Society for Neuroscience, San Diego, November, 2007.
- Mohns, E. J., & Blumberg, M. S. Synchronous bursts of activity in the developing hippocampus: Modulation by active sleep, and association with emerging gamma and theta rhythms. Society for Neuroscience, Washington, DC, November, 2008.
- Marcano-Reik, A. J., & Blumberg, M. S. The corpus callosum modulates spindle burst activity within homotopic regions of somatosensory cortex in newborn rats. Society for Neuroscience, Washington, DC, November, 2008.
- McMurray, M. S., Zeskind, P. S., Blumberg, M. S., Meiners, S., Cox, E. T., Williams, S. K., Johns, J. M. Gestational cocaine affects rat pup brown adipose tissue thermogenesis, ultrasonic vocalizations, and urine characteristics. Society for Neuroscience, Chicago, IL, October, 2009.

Symposia Organized

- Conflict, Controversy, and Self-Discovery: Three Scientists Tell Their Stories. Mark Blumberg (Chair), Celia Moore, Jerry Rudy, and Douglas Wahlsten. International Society for Developmental Psychobiology, Orlando, October, 2002.
- Sleep Development and Plasticity. Mark Blumberg (Chair), Robert Vertes, James Shaffery. Winter Conference on Current Issues in Developmental Psychobiology, Panama, January, 2005.

TEACHING AT THE UNIVERSITY OF IOWA

1. TEACHING ASSIGNMENTS

UNDERGRADUATE AND GRADUATE TEACHING:

Semester, Year	Courses Taught (Number and Title)	Students Enrolled	Selected Median ACE Summary Scores (Scale from 1 to 6; 6 highest); Analogous SPOT scores reported prior to Fall, 1998					
			This course is well planned and organized	I would recommend a course taught by this instructor to other students	Important points are clarified with good examples	Student questions are encouraged	Help is available outside class if I have questions	This instructor is effective in presenting materials in lecture/ discussion
Spring, 2008	31:190 Psychology Seminar: Sleep	21	5.31	5.97	5.79	6.00	5.86	5.97
Fall, 2006	31:338 Advanced Topics in Behavioral and Cognitive Neuroscience	12						
Spring, 2006	31:234 Developmental Psychobiology	16						
Spring, 2005	31:012 Introduction to Brain and Behavior	240	5.59	5.53	5.50	5.90	5.32	5.62
Spring, 2004	31:190 Psychology Seminar	21	5.91	5.91	5.82	5.97	5.81	5.77
	31:338							

Spring, 2003	Advanced Topics in Behavioral and Cognitive Neuroscience	11						
Spring, 2002	31:012 Introduction to Brain and Behavior	240	5.68	5.59	5.54	5.85	5.45	5.70
Fall, 2001	On Leave (Faculty Scholar Award)							
Spring, 2001	On Leave (Faculty Scholar Award)							
Fall, 2000	31:012 Introduction to Brain and Behavior	240	5.56	5.58	5.57	5.83	5.27	5.70
Spring, 2000	On Leave (Faculty Scholar Award)							
Fall, 1999	31:3 General Psychology	80	5.69	5.73	5.80	5.90	5.52	5.83
Spring, 1999	31:132 Biopsychology of Motivated Behaviors	50	5.80	5.79	5.80	5.97	5.35	5.77
Fall, 1998	31:3 General Psychology	80	5.87	5.80	5.84	5.93	5.48	5.87
Spring, 1998	31:132 Biopsychology of Motivated Behaviors	60	5.70	5.91	5.89		5.73	5.98

Fall, 1997	31:003 General Psychology	52	5.39	5.63	5.64		5.46	5.65
Spring, 1997	31:132 Biopsychology of Motivated Behaviors	50	5.65	5.84	5.77		5.57	5.94
Fall, 1996	31:003 General Psychology	52	5.53	5.61	5.79		5.55	5.82
Spring, 1996	Developmental Leave							
Fall, 1995	31:132 Biopsychology of Motivated Behaviors	42	5.65	5.33	5.41		5.52	5.50
Spring, 1995	31:003 General Psychology	61	5.30	5.63	5.63		5.67	5.56
Spring, 1995	31:234 Developmental Psychobiology	11	5.64	5.82	6.00		5.73	6.00
Fall, 1994	31:132 Motivation	50	5.66	5.59	5.68		5.68	5.71
Spring, 1994	31:003 General Psychology	60	5.17	5.26	5.51		5.28	5.40
Fall, 1993	31:132 Motivation	64	5.16	5.51	5.42		5.62	5.47
Spring, 1993	31:003 General Psychology	48	5.42	5.55	5.58		5.24	5.45
Spring, 1993	31:234 Developmental Psychobiology	16	5.19	5.75	5.38		5.79	5.63
Fall, 1992	31:132 Motivation	61	5.02	5.51	5.32		5.65	5.51

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GRADUATE TEACHING (PRE-2003):

Fall, 2002	31:241	Proseminar in Behavioral and Cognitive Neuroscience (16)
Fall, 2001	31:241	Proseminar in Behavioral and Cognitive Neuroscience (18)
Fall, 2000	31:241	Proseminar in Behavioral and Cognitive Neuroscience (11)
Fall, 1999	31:338	Advanced Topics in Behavioral and Cognitive Neuroscience (16)
Fall, 1998	31:241	Behavioral and Cognitive Neuroscience I (Course coordinator) (12)
Spring, 1998	31:242	Behavioral and Cognitive Neuroscience II (Course coordinator + 10 lectures) (6)
Fall, 1997	31:241	Behavioral and Cognitive Neuroscience I (Course coordinator) (18)
Spring, 1997	31:242	Behavioral and Cognitive Neuroscience II (7 lectures) (8)
	31/338	Advanced Topics in Behavioral and Cognitive Neuroscience (5)
Fall, 1996	31:241	Behavioral and Cognitive Neuroscience I (3 lectures) (10)
Spring, 1994	31:338	Advanced Topics in Neuroscience and Behavior (10)
	31:244	Behavioral Neuroscience (2 lectures) (7)
Spring, 1993	31:244	Behavioral Neuroscience (2 lectures) (4)

OTHER TEACHING:

Summer, 2003 31:185 Research Practicum (Jonathan Mowers)

2. STUDENTS SUPERVISED

Degree Objective	Student Name	Years	Outcome
a. Ph.D. candidates	Amy Jo Marcano-Reik	2006-	Post-comps (joined lab as 3 rd -year grad student)
	William Todd	2006-	Post-comps
	Andrew Gall	2004-	Post-comps
	Ethan Mohns [#]	2003-	Ph.D. granted August, 2009

	Adele Seelke [†]	2001-2007	Ph.D. granted December, 2007
	Karlsson, Karl [†]	2000-2005	Ph.D. granted May, 2005
	Kreider, Joy	1996-2003	Ph.D. granted August, 2003
	Sokoloff, Greta [*]	1996-2001	Ph.D. granted, May, 2001
	Lucas, Dennis	1993-1995	Withdrew for health reasons
	Schalk, Susan	1993-1995	Transferred labs and then withdrew
b. Master's candidates	Lewis, Sean	1999-2001	M.A. degree granted
	Sokoloff, Greta	1996-2001	M.A. degree granted
c. Undergraduate students	SEE COMPLETE LIST BELOW		
d. Honors students	Jessica E Middlemis-Brown	2005	B.S. (Grad. School, Univ. of Michigan)
	Eric D. Johnson	2003	B.S.
	Elizabeth A. Boline	2001	B.S. (Grad. School, Finch Health Sciences Univ.)
	Pleskac, Timothy	2000	B.S. (Grad. School, Univ. of Maryland)
	Kreber, Lisa	1999	B.S. (Grad. School, Univ. of Colorado)
	Karlen, Sarah, J.	1999	B.S. (Grad. School, Univ. of California-Davis)
	Kosinski, Catherine	1997	B.S. (Grad. School, UIC)
	Beenken, Beth Ann	1996	B.S. (Medical School, Univ. of Iowa)
	Bunten, Carol	1995	B.S. (Medical School, Univ. of Iowa)
	Mueller, Thomas	1995	B.S.

* Winner of the Spence and Lewis Awards from the Department of Psychology and the Dissertation Award from the International Society for Developmental Psychobiology (ISDP)

† Winner of the Gormezano Award (for the best student-authored paper in BCN), the Lewis Award from the Department of Psychology, and the Dissertation Award from the International Society for Developmental Psychobiology (ISDP)

Winner of the Simon Award from the Department of Psychology and the Gormezano Award (for the best student-authored paper in BCN)

3. OTHER CONTRIBUTIONS TO INSTRUCTIONAL PROGRAMS

Comprehensive Exam Committees

A. Korthank (1995); G. Sokoloff, (1998); J. Kreider (1998); A. Grippo (2000); Shujing Xu (2000); D. Nicholson (2000); J. Vaidya (2001); A. Grippo (2001); S. J. Lewis (2001); K. Karlsson (2002); Adele Seelke (2003); Imelda Pasley (2004); Michael Morris (2004); Ethan Mohns (2005); Damon Ng (2005); Andy Gall (2006); Amy Jo Marcano-Reik (2006); Dan Brooks (2007).

M.A. Committee Service

M. Henry (Johnson, 1993); M. Cicha (Johnson, 1993); J. Gagliardi (Wasserman, 1994); J. Xu (Johnson, 1995); Edison Perdomo (Johnson, 1996).

Ph.D. Committee Service

Kim Kirkpatrick-Steger (Wasserman, 1995); Jennifer Thomas (Wasserman, 1995); Y. Moon (Gormezano, 1995); A. Eisenberg (Markovsky, Sociology, 2000); Lynn Nietfeld (Gerkin, Education, 2000); Edison Perdomo (Johnson, 2000); Greta Sokoloff (Blumberg, 2001); Joy Kreider (Blumberg, 2003); Dan Nicholson (Freeman, 2003); Gale Kleven (Robinson, 2005); Michele Brumley (Robinson, 2005); Karl Karlsson (Blumberg, 2005); Andrea Frank (Wasserman, 2007); Adele Seelke (Blumberg, 2007); Hunter Halverson (Freeman, 2008).

Research Advisory Committee (RAC) Service

Greta Sokoloff (Blumberg); Joy Kreider (Blumberg); Penney Nichols-Whitehead (Plumert); David Medina (Wasserman); Brenda Donaghy (Gormezano); Maura Stansfield (Robinson), Dan Nicholson (Freeman); Gale Kleven (Robinson); Sean Lewis (Blumberg); Michele Brumley (Robinson); Andrea Frank (Wasserman); Karl Karlsson (Blumberg); Adele Seelke (Blumberg); Ethan Mohns (Blumberg); Chi Wing Ng (Poremba); Amy Jo Marcano (Robinson); Jeffrey Anderson (Blumberg); Andrew Gall (Blumberg); Daniel Brooks (Wasserman); William Todd (Blumberg); Valerie Mendez-Gallardo (Robinson); Katie Devine (Robinson); Jang Jin Kim (Lee); Yongsang Jo (Lee); Mary Levillain (Freeman)

Undergraduate Honors Committees

C. Novak (Johnson, 1993); S. Ulrich (Wasserman, 1993); J. Tremmel (Christensen, 1994); C. Betti (Wasserman, 1994); T. Mueller (Blumberg, 1995); C. Bunten (Blumberg, 1995); S. Pertzborn (Robinson, 1995); B. A. Beenken (Blumberg, 1996); D. Peterson (Robinson, 1996). C. J. Kosinski (Blumberg, 1997); S. Karlen (Blumberg, 1999); L. Kreber (Blumberg, 1999); T. Pleskac (Blumberg, 2000); K. Bennett (Robinson, 2000); O. Bailey (Robinson, 2000); E. Johnson (Blumberg, 2003).

Undergraduates Supervised in the Laboratory (Including Enrollment in 031:185, Research Practicum in Psychology)

Matthew Stolba, Donald Peterson, Robert Hoover, Colin MacMurray, Carol Bunten, Wayne Lance, Tom Mueller, Kristi Kelly, Greta Sokoloff, Nancy Beach, Mary Lou Schneider, Robert Legislador, Tim Hunsicker, Beth Ann Beenken, Catherine Kosinski, Gregory Garner (SROP), Everett Nixon (SREP), Sarah Karlen*, Nigel Kopp, Lisa Kreber, Megan Adams, Jeremy Bertsch, Jayson Eiberg, Elizabeth Boline, Tara Goldader, Necole Streeper (IBA), Eric Johnson; Jessica Middlemis-Brown*†; Lastascia Granger (IBA); Erin Nelson; Cassandra Coleman; James Gibson (IBA); Colorado Reed; Lauren Jones; James Willey.

* Recipient of the Collegiate Scholar Award

† Recipient of the Robbie Prize (Biological Sciences)

SERVICE

1. Department

Faculty search committee, Department of Psychology (BCN), 2004-2005.

Committee for Departmental Self-Study: 2000-2002.

Volunteered as “Departmental Web Czar,” a job that included reorganizing, rewriting, and updating the department’s web pages: 1999-2002.

Renovation Planning Committee: 1998-2003.

Departmental Colloquium Committee: 1998-2002.

Training Area Coordinator (Behavioral and Cognitive Neuroscience): 1996-2002.
(Duties include chairing of BCN faculty recruiting committee, 1996-1997, 1999-2000.)

Committee on Graduate Studies: 1996-2002.

Interim Chair, Animal Care and Use Committee: 1999

Organized and chaired four “Good-to-Great” meetings and prepared three motions arising from those meetings that were eventually passed by the full faculty: Summer, 1999.

Ad-Hoc Graduate Student Recruiting Committee: 1995-1996.

Endowment Committee: 1994-1995.

Professional Concerns Committee: 1994-1995.

Faculty Advisory Committee: 1994-1997 (3-year elected term).

Committee on Undergraduate Studies: 1993-1994.

2. College

Named Chairs and Professorships ad hoc committee, College of Liberal Arts and Sciences, 2009-2012.

Student Appeals Committee, College of Liberal Arts and Sciences, 2005-2006.

Promotion review committee, School of Social Work, 2003-2004.

Elected to Faculty Assembly: 2003-2006

Chair, Dean’s Task Force for the Promotion of Excellence in the College of Liberal Arts and Sciences, 2002.

Internal review committee of the Department of Anthropology: Fall, 2001.

Faculty Evaluation Committee for Semester Assignments, College of Liberal Arts: Fall, 1998.

3. University

Executive Committee, Neuroscience Graduate Program: 2000-2002.

Curriculum Committee, Neuroscience Graduate Program: 1997-1999; Summer, 2000-2001.

Biosciences Advisory Council, Office of the Vice-President for Research: 1997-1999.

Curriculum and Comprehensives Committee, Neuroscience Graduate Program: 1996-1997.

Admissions Committee, Neuroscience Graduate Program: 1993-1994; 1994-1995.

4. Profession

Journals:

Editor-in-Chief, *Behavioral Neuroscience*, 2008-2013.

Consulting Editor, *Behavioral Neuroscience*, 2007.

Associate Editor, *Behavioral Neuroscience*, 2001-2007.

Editorial Board, *Developmental Psychobiology*, 1997-present.

Ad hoc reviewer for:

American Journal of Physiology

Animal Behaviour

Behavioral & Brain Sciences

Behavioral Neuroscience

Behaviour

Behavioural Brain Research

Brain Research

Canadian Journal of Physiology and Pharmacology

Child Development

Current Biology

Developmental Psychobiology

Developmental Psychology

Developmental Reviews

Epilepsia

European Journal of Pharmacology

Infant Behavior and Development

Journal of Comparative Psychology

Journal of Neuroscience

Neuroscience and Biobehavioral Reviews

Neuroscience Letters

Physiology & Behavior

Proceedings of the National Academy of Sciences (PNAS)

Psychological Bulletin

Psychological Review

Psychonomic Bulletin & Review
Sleep

NIH grant review panels:

Ad Hoc Member, Neurobiology of Circadian Rhythm and Sleep (IFCN-D 3), March, 2007; Ad Hoc Member, Biobehavioral and Behavioral Processes-1 (BBBP-1), Center for Scientific Review, National Institutes of Health, June, 2002; June, 2003; October, 2005.
Member of grants review panel, "Animal models of SIDS" RFA, National Institute of Child Health and Human Development, August, 1991.

Other grant reviewing for:

Citizens United for Research in Epilepsy (CURE), Member of Scientific Review Board, 2004-present.
National Science Foundation

Professional Societies:

President, International Society for Developmental Psychobiology (ISDP), 2007-2008.
Executive Committee, International Society for Developmental Psychobiology (ISDP), 2006-2009.
American Psychological Association/Bureau of Scientific Affairs (APA/BSA) liaison to the Society for Neuroscience, 2005-2007.
Program Committee (Division 6), American Psychological Association, 2005-2007 (Chair, 2005-2006).
Member, Committee on Animal Research and Ethics (CARE), American Psychological Association, 2002-2005 (Chair, 2005).
Board Member, International Society for Developmental Psychobiology, 1998-2002.
Co-organizer of the annual Winter Animal Behavior Conference, Jackson, Wyoming, January, 2001.

Invited participant, American Psychological Association's (APA) 3rd annual Science Leadership Conference (SciLC), *Adventures in Advocacy: Training the Civic Scientist*, October 13-15, 2007.

Outside reviewer for promotion evaluations (tenure and full):

Department of Psychology, University of Tennessee, Knoxville, Tennessee
Department of Education, Rutgers University, New Brunswick, New Jersey
Department of Psychology, University of California at Davis, Davis, California
Department of Psychology, Indiana University, Bloomington, Indiana
Department of Psychological Sciences, Purdue University, West Lafayette, Indiana (twice)
Department of Neurology, Medical College of Wisconsin, Milwaukee, Wisconsin

Textbook reviews:

Rosenzweig, M. R., Breedlove, S. M., & Leiman, A. L. *Biological Psychology, Second Edition*, Sinauer Associates, Inc.

External departmental reviews:

Department of Psychology, University of Nebraska at Omaha, February, 1999.

5. Community

Co-organizer of the 2nd Annual Iowa City Darwin Day Celebration, February 15-16, 2008.

Invited speaker, Secular Humanist Group, Iowa City, January 31, 2006.

One of four participants in a panel discussion on Intelligent Design sponsored by the UI Freethinkers, October 19, 2005.

One of several authors “auctioned off” for the Iowa City Public Library’s “Celebrating Iowa Authors” annual fundraiser, May 1, 2005.