

EDUCATION

Ph.D., Johns Hopkins University

BOOKS

Nelson, R.J., Demas, G.E., Klein, S.L., & Kriegsfeld, L.J. (2002). *Seasonal Patterns of Stress, Immune Function, and Disease*. Cambridge University Press: Cambridge, UK.

PUBLICATIONS

1. Moffatt, C.A., Gerber, J.M., Blom, J.M.C., Kriegsfeld, L.J., & Nelson, R.J. (1995). Photoperiodic effects on steroid negative-feedback in female prairie voles (*Microtus ochrogaster*). *General and Comparative Endocrinology*, 100: 92-95.
2. Nelson, R.J., Demas, G.E., Klein, S.L., & Kriegsfeld, L.J. (1995). The influence of season, photoperiod, and pineal melatonin on immune function. *Journal of Pineal Research*, 19:149-165.
3. Burnett, A.L., Nelson, R.J., Calvin, D., Demas, G.E., Klein, S.L., Kriegsfeld, L.J., Dawson, T.M., & Snyder, S.H. (1996). Nitric oxide-dependent penile erection in mice lacking neural nitric oxide synthase. *Molecular Medicine*, 2:288-296.
4. Klein, S.L., Kriegsfeld, L.J., Hairston, J.E., Rao, V., Nelson, R.J., & Yarowsky, P.J. (1996). Characterization of sensorimotor performance, reproductive, and aggressive behaviors in segmental trisomics (Ts[17(16)]65 Dn) mice. *Physiology & Behavior*, 60:1159-1164.
5. Kriegsfeld, L.J. & Nelson, R.J. (1996). Gonadal and photoperiodic influences on body mass regulation in adult male and female prairie voles (*Microtus ochrogaster*). *American Journal of Physiology*, 270:R1013-R1018.
6. Nelson, R.J., Marinovic, A.C., Moffatt, C.A., Kriegsfeld, L.J., & Kim, S. (1997). The effects of photoperiod and food intake on reproductive development in male deer mice (*Peromyscus maniculatus*). *Physiology and Behavior*, 62:945-950.
7. Kriegsfeld, L.J., Dawson, T.M., Dawson, V.L., Nelson, R.J., & Snyder, S.H. (1997). Aggressive behavior in mice lacking the gene for neuronal nitric oxide synthase requires testosterone. *Brain Research*, 769:66-70.
8. Demas, G.E., Eliasson, M.J.L., Dawson, T.M., Dawson, V.L., Kriegsfeld, L.J., Nelson, R.J., & Snyder, S.H. (1997). Inhibitor of neuronal nitric oxide synthase increases aggressive behavior in mice. *Molecular Medicine*, 3:611-617.
9. Nelson, R.J., Kriegsfeld, L.J., Dawson, V.L., Dawson, T.M. (1997). Behavioral and neuroendocrine effects of nitric oxide. *Frontiers in Neuroendocrinology*, 18: 463-491.
10. Burnett, A.L., Johns, D.G., Kriegsfeld, L.J., Klein, S.L., Calvin, D.C., Demas, G.E., Schramm, L.P., Tonegawa, S., Nelson, R.J., Snyder, S.H., & Poss, K.D. (1998). Ejaculatory abnormalities in mice with targeted disruption of the gene for heme oxygenase - 2. *Nature Medicine*, 4:84-87.
11. Kriegsfeld, L.J., & Nelson, R.J. (1998). Short photoperiod affects reproductive function, but not dehydroepiandrosterone concentrations in male deer mice (*Peromyscus maniculatus*). *Journal of Pineal Research*, 25:101-105
12. Kriegsfeld, L.J., Demas, G.E., Dawson, T.M., Dawson, V.L., & Nelson, R.J. (1999). Circadian locomotor analysis of male mice missing the gene for neuronal nitric oxide synthase. *Journal of Biological Rhythms*, 14:20-27.

13. Kriegsfeld, L.J., Eliasson, M.J.L., Blackshaw, S., Demas, G.E., Nelson, R.J., & Snyder, S.H. (1999). Nocturnal motor coordination deficits in neuronal nitric oxide synthase knock-out mice. *Neuroscience*, 89:311-315.
14. Nelson, R.J & Kriegsfeld, L.J. (1999). Targeting aggression in mice. In: *Molecular-Genetic Techniques for Behavioral Neuroscience*. Edited by W.E. Crusio & R. Gerlai. Elsevier: Amsterdam.
15. Kriegsfeld, L.J., & Nelson, R.J. (1999). Photoperiod affects the GnRH neuronal system of male prairie voles (*Microtus ochrogaster*). *Neuroendocrinology*, 69: 238-244.
16. Demas, G.E., Kriegsfeld, L.J., Poss, K.D., Tonegawa, S., & Nelson, R.J. (1999). Undisturbed circadian locomotor rhythms in mice with targeted disruption of the gene for the carbon monoxide synthesizing enzyme, heme oxygenase-2. *Biological Rhythm Research*, 30:282-289.
17. Demas, G.E., Kriegsfeld, L.J., Dawson, T.M., Dawson, V.L., Nelson, R.J., & Snyder, S.H. (1999). Elimination of aggressive behavior in male mice lacking the gene for endothelial nitric oxide synthase. *Journal of Neuroscience*, 19: RC30.
18. Kriegsfeld, L.J., Demas, G.E., Burnett, Huang, P.L., A.L., & Nelson, R.J. (1999). Ejaculatory abnormalities in male mice lacking the gene for endothelial nitric oxide synthase. *Physiology & Behavior*, 67:561-566.
19. Kriegsfeld, L.J., Drazen, D.L., & Nelson, R.J. (1999). Effects of photoperiod and reproductive responsiveness on pituitary sensitivity to gonadotropin-releasing hormone. *General and Comparative Endocrinology*, 116:221-228.
20. Drazen, D.L., Kriegsfeld, L.J., Schneider, J.E., & Nelson, R.J. (2000). Leptin, but not immune function, is linked to reproductive response to photoperiod. *American Journal of Physiology*, 278:R1401-7.
21. Kriegsfeld, L.J., Ranalli, N.J., Bober, M.A. & Nelson, R.J. (2000). Photoperiod and temperature interact to affect the GnRH neuronal system of male prairie voles. *Journal of Biological Rhythms*, 15:306-16.
22. Kriegsfeld, L.J., Trasy, A., & Nelson, R.J. (2000). Temperature and photoperiod interact to affect reproduction and GnRH synthesis in male prairie voles. *Journal of Neuroendocrinology*, 12:553-58.
23. Kriegsfeld, L.J., Drazen, D.L., & Nelson, R.J. (2001). In vitro melatonin treatment enhances cell-mediated immune function in male prairie voles (*Microtus ochrogaster*). *Journal of Pineal Research*, 30:193-198.
24. Kriegsfeld, L.J., Drazen, D.L., & Nelson, R.J. (2001). Circadian organization in male mice lacking the gene for endothelial nitric oxide synthase (eNOS^{-/-}). *Journal of Biological Rhythms*, 16:142-148.
25. Prendergast, B.J., Kriegsfeld, L.J., & Nelson, R.J. (2001). Photoperiodic polyphenisms in rodents: neuroendocrine mechanisms, costs, and functions. *Quarterly Review of Biology*, 76:293-325.
26. Kriegsfeld, L.J., Ranalli, N.J., Trasy, A., & Nelson, R.J. (2001). Food restriction affects the GnRH neuronal system of male prairie voles (*Microtus ochrogaster*). *Journal of Neuroendocrinology*, 13:791-798.
27. Silver, R., & Kriegsfeld, L.J. (2001). Hormones and behaviour. In: *The Encyclopedia of Life Sciences*. Macmillan: London, UK, pp. 1-10.

28. Kriegsfeld, L.J., LeSauter, J., Hamada, T., Pitts, S.M., and Silver, R (2002). Circadian rhythms in the endocrine system. In: *Hormones, Brain and Behavior*. D. Pfaff and A. Etgen, (eds.). Academic Press, NY, pp. 33-91.
29. LeSauter, J., Kriegsfeld, L.J., Hon, J. & Silver, R (2002). Calbindin-D28K-containing cells of the SCN make selective contacts with other SCN neurons. *Neuroscience*, 111:575-585.
30. Kriegsfeld, L.J., Silver, R., Gore, A.C., & Crews, D (2002). Vasoactive intestinal polypeptide contacts on gonadotropin-releasing hormone neurons increase in developing female rats. *Journal of Neuroendocrinology*, 14:685-690.
31. Silver, R. & Kriegsfeld, L.J (2002). Regulation of hormone secretion by external stimuli. In: *Behavioral Endocrinology*. Becker, J.B., Breedlove, S.M., Crews, D., and McCarthy, M. (eds). Massachusetts: MIT Press, pp. 687-722.
32. Kriegsfeld, L.J., Korets, R., & Silver, R. (2003). Expression of the clock gene *Period 1* in neuroendocrine cells: An Investigation Using Mice with a *Per1::GFP* Transgene. *European Journal of Neuroscience*, 17:1-9.
33. Kriegsfeld, L.J., Hotchkiss, A., Demas, G.E., Silver, R., Silverman, A-J., & Nelson, R.J. (2003). Brain mast cells are influenced by chemosensory cues associated with estrus induction in female prairie voles (*Microtus ochrogaster*). *Hormones and Behavior* 44:377-184.
34. Kriegsfeld, L.J., Leak, R., LeSauter, J., Yackulic, C., & Silver, R. (2004). Organization of suprachiasmatic nucleus projections in Syrian hamsters (*Mesocricetus auratus*): an anterograde and retrograde analysis. *Journal of Comparative Neurology*, 468:361-379.
35. Kriegsfeld, L.J. & Silver, R. The skinny on body weight regulation: The role of retinoid signaling in photoperiod-mediated reductions in body weight. Invited commentary, *Endocrinology*, 145:11-12.
36. Kriegsfeld, L.J., LeSauter, J., & Silver, R. Targeted Microlesions Reveal Novel Organization of the Hamster Suprachiasmatic Nucleus. *Journal of Neuroscience* 24:2449-2457.
37. Kriegsfeld, L.J. The organization of the mammalian circadian timing system: Current progress and future directions. In: *Recent Research Developments in Neuroscience*. Pandalai, S.G. (ed.). Research Signpost: Kerala, India (in press).
38. Demas, G.E. & Kriegsfeld, L.J. Biological rhythms. In: *The Encyclopedia of Endocrinology and Disease*. Academic Press, San Diego, CA (in press).
39. Nora Edwards, Lance J. Kriegsfeld, & David Crews. Neural substrates for sexual and thermoregulatory behavior in the male leopard gecko, *Eublepharis macularius* (submitted).
40. Kriegsfeld, L.J., Feng, DF, Yan, L., Hamada, T., & Silver, R. Loss of circadian rhythmicity in mice with a targeted mutation of the calbindin D28k gene (in preparation).
41. Kriegsfeld, L.J., & Silver, R. Circadian control of neuroendocrine function: What only time can tell (review in preparation).

INVITED COLLOQUIA AND CHAIRED SYMPOSIA

1. Johns Hopkins University, Department of Psychology (1999). Proximate factors and mechanisms regulating seasonal adaptations in prairie voles (*Microtus ochrogaster*).
2. Columbia University, Department of Biology (2000). Seasonal modulation of neuroendocrine function and behavior in prairie voles (*Microtus ochrogaster*).

3. Columbia University, Department of Biochemistry and Molecular Biology (2001). Circadian regulation of endocrine rhythms.
4. Michigan State University, Neuroscience Program (2002). Building a biological clock: The Ins and outs of circadian organization.
5. University of Chicago, Department of Psychology (2003). Timing is Everything: The Circadian Regulation of Behavior and Physiology.
6. Indiana University, Department of Biology (2003). The time of your life: The Ins and outs of circadian organization.
7. Program in Neurobiology and Behavior, Columbia University Arden House Retreat (2003). Building a Brain Clock: Identification of a novel SCN network.
8. Society for Neuroscience, New Orleans, LA (2003). Session Chair, 'Circadian Rhythms'.
9. University of California, Berkeley (2004). Coordination of endocrine function and behavior: Time changes everything.

PRESENTATIONS AND PUBLISHED ABSTRACTS

1. Demas, G.E., Klein, S.L., Kriegsfeld, L.J., Huang, P.L., Fishman, M.C., Dawson, V.L., Dawson, T.M., & Snyder, S.H. (1995, July). Increased sexual motivation in male mice lacking the gene for neural nitric oxide synthase. Paper presented at the Conference on Reproductive Behavior, Boston, MA
2. Klein, S.L., Poss, K.D., Kriegsfeld, L.J., Demas, G.E., Dawson, T., Snyder, S.H., Tonegawa, S., & Nelson, R.J. (1995, July). Mating behavior in male mice devoid of Heme-Oxygenase-2. Paper presented at the Conference on Reproductive Behavior, Boston, MA.
3. Kriegsfeld, L.J., Demas, G.E., Klein, S.L., Nelson, R.J., Burnett, A.L., Huang, P.L., Fishman, M.C., Dawson, V.L., Dawson, T.M., & Snyder, S.H. (1995, July). Reproductive behavior in male mice lacking the gene for neural nitric oxide synthase. Paper presented at the Conference on Reproductive Behavior, Boston, MA.
4. Klein, S.L., Demas, G.E., Kriegsfeld, L.J., Nelson, R.J., Burnett, A.L., Huang, P.L., Fishman, N.C., Dawson, V.L., Dawson, T.M., & Snyder, S.H. (1995, November). Mating in male mice lacking the gene for neural nitric oxide (nNOS) synthase. Paper presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
5. Demas, G.E., Kriegsfeld, L.J., Klein, S.L., Nelson, R.J. (1996, May). Reproductive and immune responses to photoperiod and melatonin are linked in *Peromyscus* subspecies. Paper presented at the Biennial Meeting for the Society for Research on Biological Rhythms, Amelia Island, FL.
6. Kriegsfeld, L.J., Demas, G.E., Klein, S.L., Dawson, T.M., Snyder, S.H., & Nelson, R.J. (1996, May). Daily behavioral variation of male mice lacking the gene for neuronal nitric oxide synthase. Paper presented at the Biennial Meeting for the Society for Research on Biological Rhythms, Amelia Island, FL.
7. Kriegsfeld, L.J. & Nelson, R.J. (1996, November). Endocrine status and mast cell numbers in the brains of female prairie voles. Paper presented at the annual meeting of the Society for Neuroscience, Washington, DC.
8. Yarowsky, P.J., Demas, G.E., Klein, S.L., Kriegsfeld, L.J., Krueger, B.K., & Nelson, R.J. (1996, November). Impaired spatial memory and behavioral anomalies in segmental trisomic Ts65Dn Mice. Paper presented at the annual meeting of the Society for Neuroscience, Washington, DC.

9. Kriegsfeld, L.J., & Nelson, R.J. (1996, December). Estrus induction increases mast cell numbers in the brains of female prairie voles (*Microtus ochrogaster*). Paper presented at the annual meeting of the Baltimore Chapter of the Society for Neuroscience, Baltimore, MD.
10. Kriegsfeld, L.J., Dawson, T.M., Snyder, S.H., & Nelson, R.J. (1997, May). Increased aggressive behavior in male mice lacking the gene for neuronal nitric oxide synthase is testosterone-dependent. Paper presented at the annual meeting for the Society for Behavioral Neuroendocrinology, Baltimore, MD.
11. Kriegsfeld, L.J., Eliasson, M.J., Demas, G.E., Blackshaw, S., Nelson, R.J., & Snyder, S.H. (1997, November). Nocturnal deficits in motor coordination in mice lacking neuronal nitric oxide synthase parallel altered citrulline production. Paper presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.
12. Demas, G.E., Eliasson, M.J.L., Kriegsfeld, L.J., Dawson, T.M., Dawson, V.L., Nelson, R.J., & Snyder, S.H. (1997, November). Pharmacological inhibition of neuronal nitric oxide synthase increases aggressive behavior in male mice. Paper presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.
13. Burnett, A.L., Johns, D.G., Kriegsfeld, L.J., Klein, S.L., Calvin, D.C., Demas, G.E., Schramm, L.P., Tonegawa, S., Nelson, R.J., Snyder, S.H., Poss, K.D. (1998, May). Ejaculatory abnormalities in mice with targeted disruption of the gene for the carbon monoxide synthesizing enzyme heme oxygenase-2. Paper presented at the annual meeting of the American Urological Association, San Diego, CA.
14. Kriegsfeld, L.J., & Nelson, R.J. (1998, June). The GnRH neuronal system of male prairie voles (*Microtus ochrogaster*) that vary in reproductive response to photoperiod. Paper presented at the Biennial Meeting for the Society for Research on Biological Rhythms, Amelia Island, FL.
15. Kriegsfeld, L.J., Demas, G.E., Dawson, T.M., Dawson, V.L., Snyder, S.H., & Nelson, R.J. (1998, June). Circadian locomotor analysis of mice lacking the gene for neuronal nitric oxide synthase (nNOS^{-/-}). Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Atlanta, GA.
16. Kriegsfeld, L.J., Drazen, D.L., & Nelson, R.J. (1998, November). Effects of photoperiod on the hypothalamic GnRH system and pituitary of male prairie voles (*Microtus ochrogaster*). Paper presented at the annual meeting of the Society for Neuroscience, Los Angeles, California.
17. Demas, G.E., Kriegsfeld, L.J., Dawson, T.M., Dawson, V.L., Nelson, R.J., & Snyder, S.H. (1998, November). Reduced aggression in male mice lacking the gene for endothelial nitric oxide synthase (eNOS^{-/-}). Paper presented at the annual meeting of the Society for Neuroscience, Los Angeles, California.
18. Kriegsfeld, L.J., Demas, G.E., Huang, P.L., Burnett, A.L., & Nelson, R.J. (1999, June). Ejaculatory abnormalities in mice lacking the gene for endothelial nitric oxide synthase (eNOS^{-/-}). Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Charlottesville, VA.
19. Drazen, D.L., Kriegsfeld, L.J., Schneider, J.E., & Nelson, R.J. (1999, June). Reproductive response to photoperiod affects immune function and leptin concentrations in Siberian hamsters (*Phodopus sungorus*). Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Charlottesville, VA.
20. Christensen, S., Kriegsfeld, L.J., Nelson, R.J., & Breedlove, S.M. (1999, June). Activational effects of androgen on the SNB motoneurons of nitric oxide synthase knock-out mice. Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Charlottesville, VA.
21. Kriegsfeld, L.J., Drazen, D.L., & Nelson, R.J. (1999, August). Circadian analysis of male mice lacking the gene for endothelial nitric oxide synthase (eNOS^{-/-}). Paper presented at the International Congress on Chronobiology, Washington, DC.

22. Kriegsfeld, L.J., Ranalli, N.J., Bober, M.A. & Nelson, R.J. (1999, November). Interaction of photoperiod and temperature on the GnRH system of male prairie voles. Paper presented at the annual meeting of the Society for Neuroscience, Miami, FL.
23. Drazen, D.L., Kriegsfeld, L.J., & Nelson, R.J. (1999, November). Effects of photoperiod, temperature, and torpor on immune function in male Siberian hamsters (*Phodopus sungorus*). Paper presented at the annual meeting of the Society for Neuroscience, Miami, FL.
24. Kriegsfeld, L.J., Drazen, D.L., & Nelson, R.J. (2000, May). In vitro melatonin treatment enhances cell-mediated immune function in male prairie voles (*Microtus ochrogaster*). Paper presented at the Biennial Meeting for the Society for Research on Biological Rhythms, Amelia Island, FL.
25. Kriegsfeld, L.J., LeSauter, J.S., & Silver, R. (2000, November). Regulation of circadian rhythms by a suprachiasmatic nucleus subregion. Paper presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.
26. Kriegsfeld, L.J., LeSauter, J.S., Yackulic, C.Y. & Silver, R. (2001, November). Topographical organization of suprachiasmatic nucleus projections in golden hamsters (*Mesocricetus auratus*). Paper presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
27. Kriegsfeld, L.J., Korets, R., & Silver, R. (2002, May). Localization of the clock gene, *Period 1*, in neuroendocrine cells: A Potential novel mechanism of circadian endocrine rhythm regulation. Paper presented at the Biennial Meeting for the Society for Research on Biological Rhythms, Amelia Island, FL.
28. Kriegsfeld, L.J., Bobek, E., Karatsoreos, I.N., & Silver, R. (2002, November). Inhibition of nitric oxide attenuates light-induced phase advances but differentially affects FOS and mPER1 expression in mice. Paper presented at the annual meeting of the Society for Neuroscience, Orlando, FL.
29. Kriegsfeld, L.J., Mei, D.F., Hamada, T., & Silver, R. (2003, November). Circadian phenotype of mice carrying a targeted mutation of the calbindin-D28K gene. Paper presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.
30. Kriegsfeld, L.J., Feng, D, Bentley, Ukena, Tsutsui, & Silver (2004, October). Evidence for a novel inhibitory peptide in the control of timed gonadotropin secretion. Paper presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

GRANTS

2000 - 2001 - NIH Institutional Training Grant (DK-07328) - Hormones: Biochemistry and Molecular Biology.

2001 - 2004 - NIH Individual National Research Service Award (MH-12408) - Nitric Oxide and Circadian Organization.

HONORS AND AWARDS

- * Psi Chi, The National Honor Society in Psychology, 1989
- * Dean's List, Utica College of Syracuse University, 1989, 1990, 1991, 1992
- * Graduation Honors, Magna Cum Laude, Utica College of Syracuse University, 1992
- * Secretary/Treasurer for Psi Chi, Villanova Chapter, 1992-1994
- * Academic Scholarship, Villanova University, 1992-1994
- * Sigma Xi, The Scientific Research Society, 1994
- * Graduate Fellowship, The Johns Hopkins University, 1994-1999
- * NSF Travel Award for the Society for Research on Biological Rhythms Conference, 1998
- * Sigma Xi, Grants in Aid of Research Award, 1998
- * NIH Travel Award for the Society for Behavioral Neuroendocrinology Conference, 1999
- * NSF Travel Award for the International Congress on Chronobiology Conference, 1999

- * Phi Beta Kappa, Johns Hopkins Chapter, 2000
- * NIH Travel Award for the Society for Behavioral Neuroendocrinology Conference, 2002

PROFESSIONAL MEMBERSHIPS

Society for Research on Biological Rhythms
Society for Neuroscience

Animal Behavior Society
Society for Behavioral Neuroendocrinology
American Association for the Advancement of Science

PROFESSIONAL SERVICE

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Comparative Biochemistry and Physiology
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American Journal of Physiology
Psychoneuroendocrinology
Journal of Neuroscience
Brain Research