

# CURRICULUM VITAE

Lance J. Kriegsfeld

## General Information

**Address:** University of California  
Neurobiology Laboratory  
Department of Psychology and  
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## Education

Bachelor of Arts in Psychology/Minor in Computer Science, *Magna cum laude*  
Syracuse University. Syracuse, NY, USA. 1992

Masters of Science in Experimental Psychology  
Villanova University. Villanova, PA, USA. 1995  
*Thesis: The effects of prenatal alcohol exposure on reproductive capability in female rats.*  
Mentor: Dr. Ingeborg Ward

Masters of Arts in Biological Psychology  
The Johns Hopkins University. Baltimore, MD, USA. 1996  
*Thesis: Endocrine status and mast cell numbers in the brains of female and male prairie voles (Microtus ochrogaster).*  
Mentor: Dr. Randy Nelson

Doctor of Philosophy  
The Johns Hopkins University. Baltimore, MD, USA. 1999  
*Thesis: Proximate factors and mechanisms regulating seasonal adaptations and reproductive physiology in male and female prairie voles (Microtus ochrogaster).*  
Mentor: Dr. Randy Nelson

## Areas of Interest

### **Research Interests:**

Behavioral neuroendocrinology, biological rhythms, neuroimmunology, behavioral genetics, neurobiology/neuroscience, cancer biology

### **Teaching Interests:**

Behavioral endocrinology, biological rhythms, physiology and behavior, behavioral neuroscience, animal behavior

## **Positions**

- 1992-1994** Graduate Student, Dr. Ingeborg L. Ward, Department of Psychology, Villanova University, Villanova, PA  
*Emphasis:* Behavioral endocrinology, reproductive biology
- 1994-1999** Graduate Student, Dr. Randy J. Nelson, Department of Psychology, The Johns Hopkins University, Baltimore, MD  
*Emphasis:* Behavioral neuroendocrinology biological rhythms, behavioral genetics
- 1999-2003** Postdoctoral Research Fellow, Dr. Rae Silver, Department of Psychology, Columbia University, New York, NY  
*Emphasis:* Circadian biology, neuroendocrinology
- 2003-2004** Research Scientist, Columbia University, New York, NY  
*Emphasis:* Neuroendocrinology; circadian biology; reproductive biology
- 2005-2010** Assistant Professor, Psychology and Helen Wills Neuroscience Institute, University of California, Berkeley, CA.
- 2010-** Associate Professor, Psychology and Helen Wills Neuroscience Institute, University of California, Berkeley, CA.

## **Teaching Experience**

### **Instructor**

*Biological Clocks: Physiology and Behavior* (University of California, Berkeley)  
*Behavioral Neuroscience* (University of California, Berkeley)  
*Neural Circuits and Behavior* (University of California, Berkeley)  
*Hormones and Behavior* (University of California, Berkeley)  
*Biological Rhythms* (University of California, Berkeley)  
*Behavioral Endocrinology* (University of California, Berkeley)  
*Research Design and Statistics* (Johns Hopkins University)  
*Senior Research Seminar* (Barnard College)  
*Topics in Neurobiology and Behavior* (Columbia University)

### **Teaching Assistant (Johns Hopkins University)**

*Abnormal Psychology*  
*Introduction to Psychology*  
*Behavioral Medicine*  
*Introduction to Motivation*  
*Animal Behavior*  
*Introduction to Physiological Psychology*  
*Psychology and the Law*  
*Introduction to Behavioral Endocrinology*  
*Neuropsychopharmacology*

## **Funding**

- 1998 Sigma Xi, Grant in Aid of Research – Neural basis of reproductive non-responsiveness.
- 2000 - 2001 NIH Institutional Training Grant (DK-07328) - Hormones: Biochemistry and Molecular Biology
- 2001 - 2003 NIH Individual National Research Service Award (MH-12408) - Nitric Oxide and Circadian Organization. (PI: Kriegsfeld)
- 2005 University of California, Committee on Research Junior Faculty Grant - Role of an inhibitory RFamide peptide in the control of ovulation.  
\$8000 total costs. (PI: Kriegsfeld)
- 2006 University of California, Committee on Research Junior Faculty Grant - Role of kisspeptin in the control of ovulatory function.  
\$10,000 total costs. (PI: Kriegsfeld)
- 2007 - 2012 NIH NICHD R01HD050470 - Control of Reproduction by an Inhibitory RFamide Peptide. (PI: Kriegsfeld)  
\$1,226,640 total costs.
- 2007 University of California, Committee on Research Junior Faculty Grant - Local testicular regulation of spermatogenesis by an Inhibitory RFamide peptide. (PI: Kriegsfeld)  
\$8,000 total costs.
- 2007 - 2008 The Hellman Family Faculty Fund - Impact of Chrono-Neuroendocrine Disruptions on Adult Neurogenesis and Cell Death. (PI: Kriegsfeld)  
\$25,000 total costs.
- 2010 University of California, Committee on Research Junior Faculty Grant for Summer Research. (PI: Kriegsfeld)  
Circadian control of kisspeptin in ovulatory function.  
\$5,649 Total Costs
- 2010 - 2011 UC-Mexus Collaborative Grant (PI: Kriegsfeld; Co PI: Dr. Mario Caba)  
How Does Feeding Synchronize the Circadian Timing System?  
\$25,000 Total Costs
- 2012 – 2017 NIH NICHD R01HD050470B – Control of Reproduction by Two, Complementary RFamide Peptides. (PI: Kriegsfeld)  
\$1,503,193 Total Costs
- 2013 – 2017 National Science Foundation (PI: Kriegsfeld; co-PI: Dr. Jill Schneider)  
Steroid-neuropeptide interactions that optimize reproductive success when energy availability fluctuates.  
\$870,000 (total costs)

2013 – 2014 Fonds France-Berkeley Fund (PI: Kriegsfeld; co-PI: Dr. Matthieu Keller)  
Neuroendocrine Gating of Olfactory Perceptual Processing  
\$9,000 total costs

## **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<sup>-/-</sup>). *Journal of Biological Rhythms*, 16:142-148.
25. Prendergast, B.J., Kriegsfeld, L.J., & Nelson, R.J. (2001). Photoperiod nonresponsiveness in rodents: 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 stimuli involved in 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. (2004). The skinny on body weight regulation: The role of retinoid signaling in photoperiod-mediated weight loss. *Endocrinology*, 145:11-12.

36. Kriegsfeld, L.J., LeSauter, J., & Silver, R. (2004). Targeted microlesions reveal novel organization of the hamster suprachiasmatic nucleus. *Journal of Neuroscience*, 24:2449-2457.
37. Kriegsfeld, L.J. (2004). 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, pp. 113-136.
38. Demas, G.E. & Kriegsfeld, L.J. (2004). Biological rhythms. In: *The Encyclopedia of Endocrinology and Disease*. Academic Press, San Diego, CA, pp 345-352.
39. Edwards, N. Kriegsfeld, L.J. & Crews, D. (2004). Neural substrates for sexual and thermoregulatory behavior in the male leopard gecko, *Eublepharis macularius*. *Brain Research*, 1029:77-83.
40. Antle, M.C., Kriegsfeld, L.J., & Silver, R. (2005). Signaling within the brain's master clock: Localized activation of MAP kinase by gastrin-releasing peptide. *Journal of Neuroscience*, 25:2447-54.
41. Yan, L., Foley, N., Bobula, J. Kriegsfeld, L.J., & Silver, R. (2005). Two Anti Phase Oscillations Occur in Each Suprachiasmatic Nucleus of Behaviorally Split Hamsters. *Journal of Neuroscience*, 28:9017-26.
42. Kriegsfeld, L.J., Feng, DF, Bentley, G.E., Ubuka, K., Mason, A.O., Inouye, K., Ukena, K., Tsutsui, K., & Silver, R. (2006). Identification and characterization of a gonadotropin-inhibitory system in the brain of mammals. *Proceedings of the National Academy of Science, USA*, 103:2410-5.
43. Bentley, G.E., Kriegsfeld, L.J., Ukena, K., Tsutsui, K., & Wingfield, J.C. (2006). Interactions of GnIH and GnRH in birds and mammals. *Journal of Experimental Zoology A, Comparative and Experimental Biology*. 305:807-814.
44. Kriegsfeld, L.J., & Silver, R. (2006). Circadian control of neuroendocrine function: Timing is everything. *Hormones and Behavior*, 49:557-74.
45. Kriegsfeld, L.J. (2006). Driving Reproduction: RFamide peptides behind the wheel. *Hormones and Behavior*, 50:655-66.
46. Grieves, T.J., Mason, A.O., Scotti, M-A, Levine, J., Ketterson, E.D., Kriegsfeld, L.J., & Demas, G.E. (2007). Environmental control of kisspeptin: Implications for seasonal reproduction. *Endocrinology*, 148: 1158-66.
47. Mason, A.O., Grieves, T.J., Scotti, M-A, Levine, J., Ketterson, E.D., Demas, G.E., & Kriegsfeld, L.J. (2007). Environmentally-induced reproductive inhibition is associated with reductions in kisspeptin expression and reduced gonadotropic axis sensitivity. *Hormones and Behavior*, 52: 492-8.
48. Pelz, K., M., Routman, D., Driscoll, J.R., Kriegsfeld, L.J., & Dark, J. (2008). Monosodium glutamate-induced arcuate nucleus damage affects both natural torpor and 2DG-induced torpor-like hypothermia in Siberian hamsters. *American Journal of Physiology* 294:R255-65.

49. Butler, M.P., Paul, M.J., Turner, K.W., Park, J.H., Driscoll, J.R., Kriegsfeld, L.J., & Zucker, I. (2008). Circadian sensitivity to melatonin in photorefractory Siberian hamsters. *Journal of Biological Rhythms* 23:160-169.
50. Gibson, E., Humber, S.A., Jain, S., Williams, W.P., Zhao, S., Bentley, G.E., Tsutsui, K., & Kriegsfeld, L.J. (2008). The proovulatory luteinizing hormone surge is associated with deactivation of the gonadotropin-inhibitory hormone (GnIH) neuronal system. *Endocrinology* 149:4958-4969.
51. Greives, T.J., Kriegsfeld, L.J., Bentley, G.E., Tsutsui, K., & Demas, G.E. (2008). Recent advances in reproductive neuroendocrinology: a role for RFamide peptides in seasonal reproduction? *Proceedings of the Royal Society of London* 275:1943-1959.
52. Greives, T.J., Kriegsfeld, L.J., & Demas, G.E. (2008). Exogenous kisspeptin does not alter photoperiod-induced gonadal regression in Siberian hamsters (*Phodopus sungorus*). *General and Comparative Endocrinology* 156:552-558.
53. Kriegsfeld, L.J., Feng, D.F., Yan, L., Witkovsky, P., LeSauter, J., Hamada, T., & Silver, R. (2008). Targeted Mutation of the Calbindin D28K Gene Disrupts Circadian Function and Entrainment. *European Journal of Neuroscience* 27:2907-2921.
54. Smith, J.T., Coolen, L., Kriegsfeld, L.J., Sari, I.P., Jaafarzadehshirazi, M.R., Goodman, R.L., Tilbrook, A., Bentley, G.E., Clarke, I.J., & Lehman, M.N. (2008). Variation in kisspeptin and gonadotropin-inhibitory hormone expression and terminal connections to GnRH neurons in the brain: possible medium for seasonal breeding in the sheep. *Endocrinology* 149: 5770-5782.
55. Greives, T.J., Humber, S.A., Goldstein, A.N., Scotti, M-A, Demas, G.E., & Kriegsfeld, L.J. (2008). Photoperiod and testosterone interact to drive seasonal changes in kisspeptin expression in Siberian hamsters (*Phodopus sungorus*). *Journal of Neuroendocrinology* 20:1339-1347.
56. Gibson, E., Williams, W.P., & Kriegsfeld, L.J. (2009). Aging in the circadian system: Considerations for health, disease prevention, and longevity. *Experimental Gerontology* 44:51-56.
57. Zhao, S. & Kriegsfeld, L.J. (2009). Circadian changes in GT1-7 cell sensitivity to GnRH secretagogues that trigger ovulation. *Neuroendocrinology*, 89:448-57.
58. Bentley, G.E., Ubuka, T., McGuire, N.L., Calisi, R., Perfito, N., Kriegsfeld, L.J., Wingfield, J.C., Tsutsui, K. (2009). GnIH: A multifunctional neuropeptide. *Journal of Neuroendocrinology*, 21:276-81.
59. Williams, W.P., Gibson, E.M., Wang, C., Tjho, S., Khattar, N., Bentley, G.E., Tsutsui, K., & Kriegsfeld, L.J. (2009). Proximate mechanisms driving circadian control of neuroendocrine function: lessons from the young and old. *Integrative and Comparative Biology*, 49: 519-537.
60. Kriegsfeld, L.J. and Nelson, R.J. Biological rhythms. (2009). In: *Handbook of Neuroscience for the Behavioral Sciences*. Bernston, G.G. and Cacioppo, J.T. (Eds). John Wiley and Sons, Hoboken, NJ (in press)



61. Kriegsfeld, L.J. & Bittman, E.L. (2009). Photoperiodism in mammals: reproduction. In: *Photoperiodism: Biological Calendar*. Nelson, R.J., Denlinger, D. and Sommers, D. (Eds). Oxford University Press: New York (in press).
62. Butler, M.P., Kriegsfeld, L.J., & Silver, R. (2009). Biological clocks in the endocrine system. In: *Hormones, Brain and Behavior, VII*. D. Pfaff and A. Etgen, (Eds.). Academic Press, NY (in press).
63. Zhao, S., Zhu, E., Yang, C., Bentley, G.E., Tsutsui, K. & Kriegsfeld, L.J. (2010). RFamide-Related peptide (RFRP) and mRNA expression in mammalian testis: Association with the spermatogenic cycle. *Endocrinology*, 151:617-27.
64. Tsutsui, K., Bentley, G.E., Bedecarrats, G., Osugi, T., Ubuka, T., & Kriegsfeld, L.J. (2010). Gonadotropin-inhibitory hormones (GnIH) and its control of central and peripheral reproductive function. *Frontiers in Neuroendocrinology*, 31:284-295.
65. Mason, A.O., Duffy, S.P., Bentley, G.E., Ubuka, T., Tsutsui, K., Silver, R., & Kriegsfeld, L.J. (2010). Photoperiod and reproductive condition are associated with changes in RFamide-related peptide (RFRP) expression in Syrian hamsters (*Mesocricetus auratus*). *Journal of Biological Rhythms*, 25:176-85.
66. Tsutsui, K., Bentley, G.E., Kriegsfeld, L.J., Osugi, T., Seong, J.Y., & Vaudry, H. (2010). Discovery and Evolutionary History of GnIH and Kisspeptin: New Key Neuropeptides Controlling Reproduction. *Journal of Neuroendocrinology*, 22:716-27.
67. Kriegsfeld, L.J., Gibson, E.M., Williams, W.P. III, Zhao, S., Mason, A.O., Bentley, G.E., & Tsutsui, K. (2010). The Roles of RFamide-Related Peptide-3 (RFRP-3) in Mammalian Reproductive Function and Behavior. *Journal of Neuroendocrinology*, 22:692-700.
68. Bentley, G.E., Tsutsui, K., & Kriegsfeld, L.J. (2010). Recent studies of Gonadotropin-Inhibitory Hormone (GnIH) in the mammalian hypothalamus, pituitary and gonads. *Brain Research*, 1364:62-71.
69. Gibson, E.M., Wang, C., Tjho, S., Khattar, N., & Kriegsfeld, L.J. (2010). Experimental 'jet lag' inhibits adult neurogenesis and produces long-term cognitive deficits in female hamsters. *PLoS ONE*, 5:e15267.
70. Williams, W.P. III, Jarjisian, S., Mikkelsen, J., & Kriegsfeld. (2011). Circadian control of kisspeptin and a gated GnRH response mediate the preovulatory luteinizing hormone surge. *Endocrinology*, 592:596-605.
71. Mistleberger, R. E., Refinetti, R., & Kriegsfeld, L.J. (2011). Circadian rhythms and physiological processes. In: *Encyclopedia of Sleep* (Smaldon, W., Ed). Elsevier, Oxford, UK.
72. Sakhai, S.A., Kriegsfeld, L.J., & Francis, D.D. (2011). Maternal Programming of Sexual Attractivity in Female Long Evans Rats. *Psychoneuroendocrinology*, 36:1217-25.

73. Klingerman, C.M., Williams, W.P., Simberlund, J., Brahme, N., Prasad, A., Schneider, J.E., & Kriegsfeld, L.J. (2011). Food restriction-induced changes in gonadotropin-inhibiting hormone cells are associated with changes in sexual motivation and food hoarding, but not sexual performance and food intake. *Frontiers in Systems and Translational Endocrinology*, 2: 1-15.
74. Ubuka T., Inoue K., Fukuda Y., Mizuno T., Ukena K., Kriegsfeld L.J., Tsutsui K. (2012). Identification, Expression, and Physiological Functions of Siberian Hamster Gonadotropin-Inhibitory Hormone. *Endocrinology*, 153:373-385.
75. Williams, W.P. & Kriegsfeld, L.J. (2012). Circadian control of neuroendocrine circuits regulating female reproductive function. *Frontiers in Genomic Endocrinology*, 3:1-14.
76. Tsutsui, K., Ubuka, T., Bentley, G.E. & Kriegsfeld, L.J. (2012). Gonadotropin-inhibitory hormone (GnIH): discovery, progress and prospect. *General and Comparative Endocrinology*, 177:305-14.
77. Kriegsfeld, L.J. (2013). Circadian Regulation of Kisspeptin in Female Reproductive Functioning. In: Kisspeptin Signaling in Reproductive Biology (Kauffman, A.S., & Smith, J.T., Eds), Springer, New York, NY.
78. Tsutsui, K., Ubuka, T., Bentley, G.E. & Kriegsfeld, L.J. (2013). Regulatory mechanisms of gonadotropin-inhibitory hormone (GnIH) synthesis and release in photoperiodic animals. *Frontiers in Neuroscience*, 7:60.
79. Bittman, E.L., Kilduff, T., Kriegsfeld, L.J., Szymusiak, R., Toth, L.A., Turek, F.W. (2013). Animal Care Practices in Experiments on Biological Rhythms and Sleep: Report of the Joint Task Force of the Society for Research on Biological Rhythms and the Sleep Research Society. *Journal of the American Association for Laboratory Animal Science*, 52:437-443.
80. Jarjisian, S.G., Piekarski, D.J., Place, N.J., Driscoll, J.R., Paxton, E.G., Kriegsfeld, L.J., & Zucker, I. (2013). Dorsomedial hypothalamic lesions block Syrian hamster testicular regression in short day lengths without diminishing increased testosterone negative feedback sensitivity. *Biology of Reproduction*. 89(2):23, 1-5.
81. Piekarski, D.J., Zhao, S., Jennings, K.J., Iwasa, T., Legan, S., Mikelsen, J., Tsutsui, K., & Kriegsfeld, L.J. (2013). Gonadotropin-Inhibitory Hormone reduces sexual motivation and but not lordosis behavior in female Syrian hamsters (*Mesocricetus auratus*). (in press).
82. Woodruff, J.A., Lacey, E.A., Bentley, G.E., & Kriegsfeld, L.J. (2013). Effects of Social Environment on Baseline Glucocorticoid Levels in a Communally Breeding Rodent, the Colonial Tuco-tuco (*Ctenomys sociabilis*). (in press).

### **Invited Talks and Chaired Sessions**

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. 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, Arden House Retreat (2003). Building a Brain Clock: Identification of a novel SCN network.
8. Organizer and session chair: Society for Neuroscience, New Orleans, LA (2003). 'Circadian Rhythms'.
9. University of California, Berkeley (2004). Coordination of endocrine function and behavior: Time changes everything.
10. University of Massachusetts, Department of Biology (2004). Regulation of neuroendocrine function and behavior: Timing is everything.
11. University of Calgary, Department of Psychology (2006). Circadian control of ovulatory function.
12. Concordia University, Department of Psychology (2007). Neuropeptidergic regulation of entrainment and circadian function.
13. Organizer, speaker and session chair: Experimental Biology Conference - American Association of Anatomists (2007). 'Circadian Function: From retina to neural targets'.
14. University of California, Davis, Department of Psychology (2008). RFamide peptide control of central and peripheral reproductive axis function.
15. Ninth International Symposium on the Neurobiology and Neuroendocrinology of Aging, Bregenz, Austria (2008). Aging in the circadian system: Considerations for health, disease prevention and longevity.
16. Cornell University, Department of Population Medicine & Diagnostic Sciences (2008). Reproductive axis control by the RFamide peptide family.
17. Society for Integrative and Comparative Biology, Boston, MA (2009). Proximate and Ultimate Mechanisms Driving Reproductive Success.

18. Organizer, speaker and session chair: International Congress on Comparative Endocrinology, Hong Kong (2009). ‘Vertebrate Reproductive Endocrinology’.
19. Stanford University School of Medicine, Grand Rounds (2009). Implications for circadian timing in reproductive and mental health.
20. University of California, Davis, Department of Biology (2009). Circadian and RFamide peptide control of central and peripheral reproductive function.
21. International Congress of Neuroendocrinology, Rouen, France (2010). Gonadotropin inhibitory hormone in mammalian brain and reproductive axis.
22. Yale University, Department of Cellular and Molecular Physiology (2012). Circadian and neuroendocrine control of ovulation.
23. Society for Endocrinology, Annual Meeting (2012). Circadian regulation of gonadotropin-inhibitory hormone and the preovulatory luteinizing hormone surge.
24. Organizer and Session Chair, Society for Behavioral Endocrinology Annual Meeting (2012). Kisspeptin in the control of reproduction.
25. Kisspeptin, 2012, Tokyo, Japan. Kisspeptin as a key node in the circadian network driving female reproduction.
26. Washington State University, Department of Veterinary Medicine (2013). Interactions between the circadian and neuroendocrine system in female reproductive health.
27. Lehigh University, Department of Biology (2013). The balance of life: Neuroendocrine regulation of sex and food intake.
28. North American Society for Comparative Endocrinology, Universidad Nacional Autónoma de México (UNAM) Campus Juriquilla, Santiago de Querétaro (2013). Circadian control of kisspeptin and GnIH in female reproductive function.

### **Conference 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. 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

3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.

13. 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.
14. 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<sup>-/-</sup>). Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Atlanta, GA.
15. 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.
16. 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<sup>-/-</sup>). Paper presented at the annual meeting of the Society for Neuroscience, Los Angeles, California.
17. 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<sup>-/-</sup>). Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Charlottesville, VA.
18. 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.
19. 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.
20. 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<sup>-/-</sup>). Paper presented at the International Congress on Chronobiology, Washington, DC.
21. 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.
22. 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.
23. 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.

24. 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.]
25. 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.
26. 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.
27. 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.
28. 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.
29. Kriegsfeld, L.J., Feng, D, Bentley, G.E., Ukena, K., Tsutsui, K., & Silver, R. (2004, November). 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.
30. Edwards, N., Kriegsfeld, L.J. & Crews, D. (2004, November). Neural substrates for sexual and thermoregulatory behavior in the male leopard gecko, *Eublepharis macularius*. Paper presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
31. Bentley, G.E., Kriegsfeld, L.J., Ukena, K., Tsutsui, K., & Wingfield, J.C. (2005, May). Interactions of GnIH and GnRH in birds and mammals. Paper presented at the International Congress on Comparative Endocrinology, Boston, MA.
32. Kriegsfeld, L.J., Feng, D, Bentley, G.E., Ukena, K., Tsutsui, K., & Silver, R. (2005, July) Neural and Genetic Control of Endocrine Timing by the Circadian System. Paper presented at the annual meeting for the Society of the Study of Reproduction, Quebec.
33. Kriegsfeld, L.J., Duffy, S., Bentley, G.E., Ukena, K., Tsutsui, K., & Silver, R. (2005, November). Expression of Gonadotropin-Inhibitory Hormone is Influenced by Reproductive Condition Independently of Photoperiod. Paper presented at the annual meeting of the Society for Neuroscience, Washington, DC.
34. Yan, L., Bobula, J., Kriegsfeld, L.J., & Silver, R. (2006, November). Antiphase oscillations in the core and shell SCN of split hamster. Paper presented at the annual meeting of the Society for Neuroscience, Washington, DC.

35. Mason, A.O., Greives, T.J., Levine, J.H., Scotti, M-A., Demas, G.E., & Kriegsfeld, L.J. (2006, June). Kisspeptin expression is modulated by photoperiod and Reproductive condition. Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Pittsburgh, PA.
36. Greives, T.J., Mason, A.O., Scotti, M-A., Ketterson, E.D., & Kriegsfeld, L.J. (2006, June). Kisspeptin induces gonadotropin release in long- and short-day Siberian hamsters (*phodopus sungorus*). Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Pittsburgh, PA.
37. Jain, S. Humber, S.A. Bentley, G.E., Tsutsui, K., & Kriegsfeld, L.J. (2006, June). Timing of the preovulatory lh surge is associated with deactivation of the gonadotropin-inhibitory hormone system. Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Pittsburgh, PA.
38. Butler, M.P., Paul, M.J., Park, J-H, Turner, K.W., Kriegsfeld, L.J., & Zucker, I. (2006, June). Circadian system responsiveness to melatonin in photorefractory hamsters. Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Pittsburgh, PA.
39. Mason, A.O., Greives, T.J., Levine, J.H., Scotti, M-A., Demas, G.E., & Kriegsfeld, L.J. (2006, October). Environmental control of reproduction: Kisspeptin as an interpretive interface. Paper presented at the annual meeting of the Society for Neuroscience, Atlanta, GA.
40. Kriegsfeld, L.J., Humber, S.A., Jain, S., Bentley, G.E., Tsutsui, K. (2006, October). Timing of the preovulatory LH surge is associated with deactivation of the gonadotropin-inhibitory hormone system. Paper presented at the annual meeting of the Society for Neuroscience, Atlanta, GA.
41. Gibson, E.O., & Kriegsfeld, L.J. (2007, June). Lateralized activation of the gonadotropin-inhibitory hormone (GnIH) system reveals novel circadian control of the preovulatory luteinizing hormone surge. Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Monterey, CA.
42. Zhao, S., & Kriegsfeld, L.J. (2007, June). Circadian regulation of gonadotropin-releasing hormone (GnRH) production in GnRH-secreting neurons responding to Kisspeptin stimulation. Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Monterey, CA.
43. Mason, A.O., Duffy, S.P., Bentley, G.E., Ubuka, T., Zhao, S., Romeo, R.D., Tsutsui, K., & Kriegsfeld, L.J. (2007, June). Puberty is Associated with a Remodeling of the Gonadotropin-Inhibitory Hormone (GnIH) Neuronal Network. Paper presented at the Annual Meeting for the Society for Behavioral Neuroendocrinology, Monterey, CA.
44. Zhao, S., Bentley, G.E., Tsutsui, K. & Kriegsfeld, L.J. (2007, November). Local Regulation of Spermatogenesis by Gonadotropin-Inhibitory Hormone. Paper presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
45. Mason, A.O., Duffy, S.P., Bentley, G.E., Ubuka, T., Tsutsui, K., Silver, R., & Kriegsfeld, L.J. (2007, November). Effects of photoperiod and reproductive condition on the RFRP system in



Syrian hamsters. Paper presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

46. Gibson, E.O., Williams, W.P. III, Mikkelsen, J. & Kriegsfeld, L.J. (2008, November). Circadian alterations in RFamide peptide expression are associated with reproductive decline in aged female Syrian hamsters. Paper presented at the annual meeting of the Society for Neuroscience, Washington, DC.
47. Williams, W.P. III, Mikkelsen, J., & Kriegsfeld (2008, November). Circadian Control Of Kisspeptin In The Regulation of The Preovulatory Luteinizing Hormone Surge. Paper presented at the annual meeting of the Society for Neuroscience, Washington, DC.
48. Sakhai, S., Kriegsfeld, L.J., & Francis, D.D. (2008, November). Early life experiences regulate sexual attractivity variables in the long-evans rat. Paper presented at the annual meeting of the Society for Neuroscience, Washington, DC.
49. Williams, W.P. III, Mikkelsen, J., & Kriegsfeld (2009, June). The preovulatory luteinizing hormone surge: Circadian control of the GnRH system. Paper presented at the annual meeting of The Society of Behavioral Endocrinology, East Lansing, MI.
50. Zhao, S., Bentley G.E., Tsutsui, K. & Kriegsfeld, L.J. (2009, June). RFamide-Related Peptide (RFRP) and mRNA Expression in Mammalian Testis: Association with the Spermatogenic Cycle. Paper presented at the annual meeting of The Society of Behavioral Endocrinology, East Lansing, MI.
51. Liao, J.F., Mason, A.O., Kriegsfeld, L.J., & Smale, L (2009, November). Effect of time of day on Kisspeptin cell activation in a diurnal rodent, *Arvicanthis niloticus*. Paper presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
52. Tsutsui, T., Chowdhury, V.S., Osugi, T., Ubuka, T., Matsuzaki, T., Iwasa, T., Irahara, M., Kriegsfeld, L.J., & Bentley, G.E. (2010, June). Discovery of GnIH: Initial findings in birds and subsequent discovery of its mammalian homolog. Annual Meeting of the Endocrine Society, San Diego, CA.
53. Bentley, G.E., Kriegsfeld, L.J., Kaufer, D., & Tsutsui, K. (2010, June). Mounting Evidence of GnIH Function in Mammals. Annual Meeting of the Endocrine Society, San Diego, CA.
54. Franklin, K., Pillow, C., Legan, S., Kriegsfeld, L.J., & Duncan, M.J. (2010, June). Lack of effect of phenobarbital administration on number or activation of RFRP3 neurons in the DMH of proestrous golden hamsters. Paper presented at the Biennial Meeting for the Society for Research on Biological Rhythms.
55. Gibson, E.M., Wang, C., Tjho, S., Khattar, N., & Kriegsfeld, L.J. (July, 2010). Inhibition of adult neurogenesis and long-term cognitive deficits following repeated jet lag. Paper presented at the annual meeting of The Society of Behavioral Endocrinology, Toronto, CA.
56. Manoogian, E., Mason, A.O., Heideman, P.D., & Kriegsfeld, L.J. (July, 2010). Photoperiod and genetic background interact to affect gonadotropin-inhibitory hormone. Paper presented at the annual meeting of The Society of Behavioral Endocrinology, Toronto, CA.

57. Jouhannau, M., Franceschini, I., Caraty, A., Tillet, Y., Pillon, D., Brennan, P.A., Kriegsfeld, L.J. & Keller, M. (August, 2011). Conference on Chemical Signals in Vertebrates, Berlin, Germany.
58. Keller, M., Jouhannau, M., Franceschini, I., Caraty, A., Tillet, Y., Pillon D., Kriegsfeld, L.J., & Brennan, P.A. (September, 2011). Puberty acceleration in female mice: behavioural effects and neuroendocrine consequences. European Chemoreception Research Organisation, Manchester, UK.
59. Lee, T.S., Dalkara, D., Byrne, L., Jarjisian, S.G., Visel, M., Kriegsfeld, L.J. & Flannery, J.G. (May, 2012). Circadian Rhythm in a Photo-Insensitive Mouse Model with Retinal Expression of Exogenous Light-Gated Ion Channels. Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.
60. Geraghty, A.C., Muroy, S., Krolikoski, M., Kriegsfeld, L.J., Bentley, G.W., Kaufer, D. (June, 2012). Chronic stress induces a long-lasting increase of rfrp expression in adult female rats. Paper presented at the annual meeting of The Society of Behavioral Endocrinology, Madison, WI.
61. Piekarski, D.J., Zhao, S., Jennings, K.J., Iwasa, T., & Kriegsfeld, L.J. (June, 2012). Gonadotropin-inhibitory hormone reduces sexual motivation and paracopulatory behaviors but not copulatory behavior in female Syrian hamsters. Paper presented at the annual meeting of The Society of Behavioral Endocrinology, Madison, WI.
62. Jouhannau, M., Franceschini, I., Tillet, Y., Pillon, D., Brennan, P.A., Kriegsfeld, L.J., Caraty, I., Keller, M. (June, 2012). Male pheromonal exposure enhances the development of kisspeptin network in peripubertal female mice . Paper presented at the annual meeting of The Society of Behavioral Endocrinology, Madison, WI.
63. Geraghty, A.C., Muroy, S.E., Kriegsfeld, L.J., Bentley, G.W., & Kaufer, D. (June, 2013). Chronic stress causes an increase in rfrp expression and leads to reproductive dysfunction in the adult female rat. Paper presented at the annual meeting of The Society of Behavioral Endocrinology, Atlanta, GA.
64. Jouhannau, M., Caraty, I., Franceschini, I., Pillon, D., Tillet, Y., Buatois, B., Ganem, G., Brennan, P.A., Kriegsfeld, L.J., Keller, M. (June, 2013). Olfactory regulation of kisspeptin neurons during exposure to puberty-accelerating male pheromones in female mice. Paper presented at the annual meeting of The Society of Behavioral Endocrinology, Atlanta, GA.
65. Jennings, K.J., Piekarski, D.J., Russo, K.A., Chang, J., Wu, H., Kriegsfeld, L.J. (November, 2013). Outcome of Aggressive Encounters is Associated with Alterations in the Gonadotropin-Inhibitory Hormone (GnIH) Neuronal System. Paper presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

## **Honors and Awards**

- Psi Chi, The National Honor Society in Psychology, 1989

- Dean's List, Syracuse University, 1989, 1990, 1991, 1992
- Graduation Honors, *Magna Cum Laude*, 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
- 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
- Frank A. Beach Award for Outstanding Young Investigator in Behavioral Endocrinology, 2005
- Travel grant, University of California, Berkeley, 2005, 2006, 2007, 2008, 2009
- Golden Key Honor Society, Honorary Faculty Member, 2010
- UC Berkeley Faculty Award for Excellence in Postdoctoral Mentoring, 2013

### **Professional Memberships**

- Society for Behavioral Neuroendocrinology
- Society for Research on Biological Rhythms
- International Society for Chronobiology
- Society for Neuroscience
- American Association of Anatomists
- Society for the Study of Reproduction
- Endocrine Society
- Society for Integrative and Comparative Biology
- North American Society for Comparative Endocrinology

### **Professional Service**

#### **Grant Application Reviewer**

- National Science Foundation:
  - Division of Integrative Biology and Neuroscience
  - Division of Ecological and Evolutionary Physiology
- Natural Sciences and Engineering Research Council of Canada (NSERC)
- Hungarian Scientific Research Fund (OTKA)
- L'Agence nationale de la recherche (ANR - France)
- The Royal Society of New Zealand, Marsden Fund (New Zealand)

**Deputy Receiving Editor**, *European Journal of Neuroscience* (2005 - present)

**Editorial Board**, *Endocrinology* (2010 – present); *Frontiers in Integrative Pharmacology* (2010 - present); *Frontiers in Neuroendocrine Science* (2010 – present); *Dataset Papers in Neuroscience* (2012-present)

**Committee on Animal Issues**, Society for Research on Biological rhythms (2006-2008)

**Advisory Committee**, Society for Behavioral Endocrinology (2007-2011)

**Presidential Selection Committee** - Society for Behavioral Endocrinology (2010)

**Faculty of 1000 (Biology)** – Associate Faculty Member (2010 – present)

**Awards Committee**, Society for Behavioral Endocrinology (2012 - present)

### **Ad hoc Journal Reviewer**

*Journal of Mammalogy*  
*Physiology and Behavior*  
*Hormones and Behavior*  
*Journal of Pineal Research*  
*American Midland Naturalist*  
*Comparative Biochemistry and Physiology*  
*American Journal of Physiology*  
*Journal of Neuroscience*  
*Journal of Comparative Neurology*  
*European Journal of Neuroscience*  
*Peptides*  
*Journal of Endocrinology*  
*Frontiers in Behavioral Neuroscience*  
*International Journal of Endocrinology*  
*Frontiers in Endocrinology*

*Journal of Biological Rhythms*  
*Biology of Reproduction*  
*Canadian Journal of Zoology*  
*Nature*  
*Nature Neuroscience*  
*Journal of Neuroendocrinology*  
*Psychoneuroendocrinology*  
*Brain Research*  
*Endocrinology*  
*Neuroendocrinology*  
*Behavioral Neuroscience*  
*Frontiers in Neuroscience*  
*PNAS*  
*Neuroscience*

### **Graduate Students and Postdoctoral Fellows Supervised**

Alex Mason	Graduate Student	Psychology	2005-2010
Trey Williams	Graduate Student	Psychology	2006-2011
Erin Gibson	Graduate Student	Psychology	2006-2011
Sheng Zhao	Postdoctoral Fellow		2007-2012
Lonnele Ball	Postdoctoral Fellow		2009-2013
Takeshi Iwasa	Postdoctoral Fellow		2011-2012
David Piekarski	Graduate Student	Psychology	2010-2013
Kim Russo	Graduate Student	Psychology	2011-present
Joseph Driscoll	Graduate Student	Neuroscience	2011-present
Kim Jennings	Graduate Student	Psychology	2011-present
Benjamin Smarr	Postdoctoral Fellow		2013-present
Rebecca Calisi-Rodriguez	Postdoctoral Fellow		2013-present

### **University Service**

#### **Member, qualifying exam committees:**

Ruth Constantini – Integrative Biology (2005)  
Lonnele Ball – Endocrinology Program (2006)  
Adriane Sinclair – Integrative Biology (2006)  
Bradley Voyek – Helen Wills Neuroscience Institute (2006)  
Julie Woodroff – Integrative Biology (2007)  
Libby Slawson – Molecular and Cellular Biology (2007)  
Sherrie Gallipeau – Integrative Biology (2007)  
Rebecca Calissi – Integrative Biology (2008)  
Nicolette McGuire – Integrative Biology (2008)  
Matt Reid (Chair) – Psychology (2008)  
Alex Mason – Psychology (2008)  
Lisa Margerum – Integrative Biology (2008)  
Erin Gibson – Psychology (2008)

Steve Jarjisian (Chair) – Psychology (2009)  
Naomi Ondresek – Integrative Biology (2009)  
David Piekarski (Chair) – Psychology (2009)  
Patricia Lopes – Integrative Biology (2009)  
Nataliya Shifrin – Molecular and Cellular Biology (2009)  
Wilbur P. Williams – Psychology (2009)  
Samuel Sakhai (Chair) – Psychology (2009)  
Neha John-Henderson – Psychology (2009)  
Tony Tin – Molecular and Cellular Biology (2010)  
Darcy Kato Earnst – Integrative Biology (2012)  
Xuan (Susan) Luong - Integrative Biology (2012)  
Jeremy Crawford - Integrative Biology (2012)  
Takeshi Morito – Molecular and Cellular Biology (2012)  
Kristina Kangus – Integrative Biology (2013)  
Johnny Do - Molecular and Cellular Biology (2013)  
Kim Jennings - Psychology (2013)  
Kim Russo - Psychology (2013)

**Dissertation committees:**

Megan McCarthy – Psychology (2006)  
Annaliese Beery – Helene Wills Neuroscience Institute (2006 - 2008)  
Rebecca Calissi – Integrative Biology (2008 - 2010)  
Adriane Sinclair – Integrative Biology (2006 - present)  
Nicolette McGuire – Integrative Biology (2008 - 2011)  
Lisa Margerum - Integrative Biology (2008 - present)  
Naomi Ondresek – Integrative Biology (2009 - present)  
Sharon Kidd – Public Health (2009)  
Ellie McGlinchey – Psychology (2010)  
Patricia Lopes – Integrative Biology (2010 – present)  
Alex Mason (Chair) – Psychology (2005 - 2010)  
Matt Reid - Psychology (2005 - present)  
Steve Jarjisian - Psychology (2006 - present)  
David Piekarski - Psychology (2006 - present)  
Trey Williams (Chair) – Psychology (2006 - 2011)  
Erin Gibson (Chair) – Psychology (2006 - 2011)  
Darcy Kato Earnst – Integrative Biology (2010-present)  
Noah Benton – Biology, Lehigh University (2013-present)

**Master's degree committees:**

Ruth Constantini – Integrative Biology (2006)  
Arvin Gouw – Endocrinology Program (2008)  
Mariska Batavia – Integrative Biology (2009)

**Graduate student supervisory committees:**

Rebecca Calissi – Integrative Biology (2006 – 2010)  
Julie Woodroff – Integrative Biology (2006 – present)  
Naomi Ondraek Integrative Biology (2006 - present)  
Nicolette McGuire – Integrative Biology (2006 – present)  
Adrienne Sinclair – Integrative Biology (2006 – present)

Lisa Margerum - Integrative Biology (2006 - present)  
Patricia Lopes – Integrative Biology (2008 - present)  
Xuan (Susan) Luong - Integrative Biology (2010 - present)

**Undergraduate Honor's Thesis Supervisor:**

Ying Jie Sun – Psychology (2009)  
Caitlyn Kelly-Kilgore – Psychology (2009)  
Neera Khattar – Integrative Biology (2009)  
Connie Wang – Molecular and Cellular Biology (2010)  
Stephanie Tjho – Molecular and Cellular Biology (2010)  
Nicole Wright – Psychology (2011)

**Faculty Advisor, *Brain Drain* Magazine (2007)**

**Awards Committee, Department of Psychology (2006, 2007)**

**Committee on Undergraduate Scholarships, Senate Committee Service (2006)**

**Merit Case Review Committee, Department of Psychology (2005sp, 2007sp, 2007f; 2008s, 2013f)**

**Undergraduate Honors Thesis Reader, Department of Psychology (2007, 2008, 2009, 2011, 2012, 2013)**

**Futures Committee, Department of Psychology (2006-2013)**

**Behavioral Neuroscience Area Head, Department of Psychology (2006-present)**

**Job Search Committee (Gene/Environment Interactions), Department of Psychology (2006sp)**

**Job Search Committee ('Open' Search), Department of Psychology (2008sp)**

**Job Search Committee (Molecular Biology), Department of Molecular/Cellular Biology (2011sp)**

**Job Search Chair (Behavioral Neuroscience), Department of Psychology (2011f)**

**Job Search Committee (Integrative Biology), Department of Integrative Biology (2012f)**

**HWNI Executive Committee, Helen Wills Neuroscience Institute (2009 - present)**

**Biology Research Fellows Selection Committee (2010, 2011, 2012, 2013)**

**HWNI Membership Committee, Helen Wills Neuroscience Institute (2010)**

**Institute of Cognitive and Brain Sciences (ICBS) Advisory Committee (2010 – present)**

**Graduate Student Admissions Committee, Helen Wills Neuroscience Institute (2011)**

**Chair, Graduate Student Admissions Committee, Helen Wills Neuroscience Institute (2012-present)**

**Member, UC Berkeley Animal Care and Use Committee (2013-present)**

**Departmental Climate and Equity Committee, Dept of Psychology (2013)**