

## CURRICULUM VITAE

**Kim L. Huhman, Ph.D.**  
**Professor**  
**Neuroscience Institute**  
**Department of Psychology**

### I. EDUCATION

B.S. Zoology, 1982  
B.S. Psychology, 1982  
Duke University  
Durham, North Carolina 27706

M.S. Biopsychology, 1986  
Ph.D. Biopsychology, 1988  
University of Georgia  
Athens, Georgia 30602

### II. PROFESSIONAL CREDENTIALS

Assistant Professor (November, 1995-2001) Georgia State University (tenure track in Fall, 1997)  
Associate Professor (August 2001-2006) Georgia State University  
Professor (August 2006-present) Georgia State University

### III. TEACHING EXPERIENCE (ACADEMIC)

Teaching Assistantship, Department of Psychology, University of Georgia, 1987-1988  
Assistant Professor, November 1995-August 2001, Department of Psychology, Georgia State University  
Associate Professor, August 2001-2006, Department of Psychology, Georgia State University  
Professor, August 2006-Present, Department of Psychology, Georgia State University  
Professor, July 2008 – Present, Neuroscience Institute, Georgia State University

### IV. ADMINISTRATIVE EXPERIENCE (ACADEMIC)

Chair, Neuropsychology and Behavioral Neuroscience Program,  
Department of Psychology, Georgia State University, August 1998-  
August 2003  
Deputy Director for Research, Center for Behavioral Neuroscience, November 1999 – October, 2002 and Fall 2005- present; committee membership within the Center for Behavioral Neuroscience includes Management Team (2000 –

present), Executive Committee (2000-present), Undergraduate Program Committee (1999-2002), Graduate Program Committee (1999-present), Venture Grant Review Committee (2001-present), Site Visit Team (2001-present)

Acting Director for Research, Center for Behavioral Neuroscience, October, 2002 – August 2005

Aggression Collaboratory Head; Center for Behavioral Neuroscience, August 2004-present

Center for Brain Sciences and Health, Executive Committee, 1997 – present

University Senate Member, Georgia State University, 2004-present

University Senate Research Committee, 2004-present

Senate Research Integrity Subcommittee, 2004-present

Senate Research Subcommittee on Electronic Research Administration, 2005 - present

Senate Committee for Review of the Research Office, 2005-present

University Senate Student Life Committee, 2005-present

Promotions and Tenure Committee, Department of Psychology, 2002-present

Clinical Search Committee, Department of Psychology, 2003 and 2004

Curriculum Committee, Georgia Psychological Association, 1997-1998

Department of Psychology, Executive Committee, 1998-2000

Chair, Neuropsychology and Behavioral Neuroscience Search Committee, 2000 (hired Dr. Marise Parent) and 2002 (hired Dr. Aras Petruilis)

Graduate Student Admissions Committee, yearly 1997-2004, 2007

Executive Committee, Atlanta Chapter for the Society for Neuroscience, 2001-2004

Managed renovations to laboratory and office space in Kell Hall, 2002-2003

Brains and Behavior Search Committee, 2006-2007

Executive Committee, Neuroscience Institute, Georgia State University, 2008-present

Chair, Animal Resource Committee, Georgia State University, 2008-present

Executive Committee, College of Arts and Sciences, Georgia State University, 2009- present

President, Atlanta Chapter of the Society for Neuroscience, 2011-2013

Working Group Member, NIMH Research Domain Criteria (RDoC), Systems for Social Processes Workshop, 2012

V. **BUSINESS AND PROFESSIONAL EXPERIENCE**

Not applicable

VI. **COURSES TAUGHT**

Psychopharmacology (Psyc 480/680): Winter 1997, 1998

Introduction to Basic Psychological Processes: (Psyc 203), Spring 1998 and 1999

Honors Seminar (Psyc 326H) on Animal Rights/Welfare, Winter 1997

Drugs, Behavior and Society (Psyc 2050), Fall 1998, 2010, 2011

Behavioral Neuroscience (Psyc 8610/Biol 8060) Spring 2000, 2002, 2004, 2006, 2008

Drugs and the Nervous System (Neur 4150/Psyc 4050) Spring 2012

Psychopharmacology (Neur 8230/Psyc 8640) Spring 2001, 2003, 2005, 2007, 2009, 2011, 2013

Animal Behavior (Psyc 4560) Fall 2003

## VII. INTELLECTUAL CONTRIBUTIONS

### A. PUBLICATIONS – JOURNAL ARTICLES (refereed)

1. Huhman, K. L.; Bunnell, B. N.; Mougey, E. H.; Meyerhoff, J. L. Effects of social conflict on POMC-derived peptides and glucocorticoids in male golden hamsters. Physiology & Behavior, 47, 949-956, 1990.
2. Huhman, K. L.; Herbert, M.; Meyerhoff, J. L.; Bunnell, B. N. Plasma cyclic AMP increases in golden hamsters following exposure to a graded footshock stressor. Psychoneuroendocrinology, 16, 559-563, 1991.
3. Huhman, K. L.; Moore, T. O.; Mougey, E. H.; Ferris, C. F.; Meyerhoff, J. L. Acute and repeated exposure to social conflict in male golden hamsters: Increases in plasma POMC-peptides and cortisol and decreases in plasma testosterone. Hormones and Behavior, 25, 206-216, 1991.
4. Huhman, K. L.; Mougey, E. H.; Meyerhoff, J. L. Hormonal response to fighting in submissive hamsters: Separation of physical and psychological effects. Physiology & Behavior, 51, 1083-1086, 1992.
5. Potegal, M.; Huhman, K. L.; Moore, T. O.; Meyerhoff, J. L. Conditioned defeat in the Syrian golden hamster (*Mesocricetus auratus*). Behavioral and Neural Biology, 60, 92-102, 1993.
6. Huhman, K. L.; Albers, H. E. Estradiol alters the behavioral response to arginine vasopressin in the medial preoptic-anterior hypothalamus. Peptides, 14, 1049-1054, 1993.
7. Hennessey, A. C.; Huhman, K. L.; Albers, H. E. Vasopressin and sex differences in hamster flank marking. Physiology & Behavior, 55, 905-911, 1994.
8. Huhman, K. L.; Albers, H. E. Neuropeptide Y microinjected into the suprachiasmatic region phase shifts circadian rhythms in constant darkness. Peptides, 15, 1475-1478, 1994.
9. Huhman, K. L.; Babagbemi, T. O.; Albers, H. E. Bicuculline blocks neuropeptide Y-induced phase advances when microinjected in the

- suprachiasmatic nucleus of Syrian hamsters. Brain Research, 675, 333-336, 1995.
10. Huhman, K. L.; Mougey, E. H.; Moore, T. O.; Meyerhoff, J. L. Stressors, including social conflict, decrease plasma prolactin in male golden hamsters. Hormones and Behavior, 29, 581-592, 1995.
  11. Albers, H. E.; Gillespie, C. F.; Babagbemi, T. O.; Huhman, K. L. Analysis of the phase shifting effects of gastrin releasing peptide when microinjected into the suprachiasmatic region. Neuroscience Letters, 191, 1-4, 1995.
  12. Gillespie, C. F.; Huhman, K. L.; Babagbemi, T. O.; Albers, H. E. Bicuculline increases and muscimol reduces the phase-delaying effects of light and VIP/PHI/GRP in the suprachiasmatic region. Journal of Biological Rhythms, 11, 137-144, 1996.
  13. Huhman, K. L.; Hennessey, A. C.; Albers, H. E. Rhythms of glutamic acid decarboxylase mRNA in the suprachiasmatic nucleus. Journal of Biological Rhythms, 11, 311-316, 1996.
  14. Huhman, K. L.; Gillespie, C. F.; Marvel, C. L.; Albers, H. E. Neuropeptide Y phase shifts circadian rhythms in vivo via a Y2 receptor. NeuroReport, 7, 1249-1252, 1996.
  15. Huhman, K. L.; Gillespie, C. F.; Marvel, C. L.; Albers, H. E. Peptidergic mechanisms of action in the suprachiasmatic nucleus. Annals of the New York Academy of Science, 814, 300-304, 1997.
  16. Yuan, P. Q.; Granas, C.; Kallstrom, L.; Yu, J.; Huhman, K.; Larhammar, D.; Albers, H. E.; Johnson, A. E. Differential distribution of glutamic acid decarboxylase-65 and glutamic acid decarboxylase-67 messenger RNAs in the entopeduncular nucleus of the rat. Neuroscience, 78, 87-97, 1997.
  17. Mintz, E. M.; Gillespie, C. F.; Marvel, C. L.; Huhman, K. L.; Albers, H. E. Serotonergic regulation of circadian rhythms in Syrian hamsters. Neuroscience, 79, 563-569, 1997.
  18. Gillespie, C. F.; Mintz, E. M.; Marvel, C. L.; Huhman, K. L.; Albers, H. E. GABA(A) and GABA(B) agonists and antagonists alter the phase-shifting effects of light when microinjected into the suprachiasmatic region. Brain Research, 759, 181-189, 1997.
  19. Huhman, K. L.; Marvel, C. L.; Gillespie, C. F.; Mintz, E. M.; Albers, H. E. Tetrodotoxin blocks NPY- but not muscimol-induced phase advances of wheel-running activity in Syrian hamsters. Brain Research, 772, 176-180, 1997.

20. Gillespie, C. F.; Van Der Beek, E. M.; Mintz, E. M.; Mickley, N. C.; Jasnow, A. M.; Huhman, K. L.; Albers, H. E. GABAergic regulation of light-induced c-Fos immunoreactivity within the suprachiasmatic nucleus. Journal of Comparative Neurology, 411, 683-692, 1999.
21. Huhman, K. L.; Jasnow, A. M.; Sisitsky, A. K.; Albers, H. E. Glutamic acid decarboxylase mRNA in the suprachiasmatic nucleus of rats housed in constant darkness. Brain Research, 851, 266-269, 1999.
22. Jasnow, A. M.; Banks, M. C.; Owens, E. C.; Huhman, K. L. Differential effects of two corticotropin-releasing factor antagonists on conditioned defeat in male Syrian hamsters (*Mesocricetus auratus*). Brain Research, 846, 122-128, 1999.
23. Jasnow, A. M.; Huhman, K. L.; Bartness, T. J.; Demas, G. E. Short-day increases in aggression are inversely related to circulating testosterone concentrations in male Siberian hamsters (*Phodopus sungorus*). Hormones and Behavior, 38, 102-110, 2000.
24. Whitten, R. D.; Jasnow, A. M.; Albers, H. E.; Martin-Schild, S.; Zadina, J. E.; Huhman, K. L. The effects of endomorphin-1 on conditioned defeat in Syrian hamsters (*Mesocricetus auratus*). Brain Research, 914, 74-80, 2001.
25. Jasnow, A. M.; Drazen, D. L.; Huhman, K. L.; Nelson, R. J.; Demas, G. E. Acute and chronic social defeat suppresses humoral immunity of male Syrian hamsters (*Mesocricetus auratus*). Hormones and Behavior, 40, 428-433, 2001.
26. Jasnow, A. M.; Huhman, K. L. Activation of GABA(A) receptors in the amygdala blocks the acquisition and expression of conditioned defeat in Syrian hamsters. Brain Research, 920, 142-150, 2001.
27. Harmon, A. C.; Moore, T. O.; Huhman, K. L.; Albers, H. E. Social experience and social context alter the behavioral response to centrally administered oxytocin in female Syrian hamsters. Neuroscience, 109, 767-772, 2002.
28. Mintz, E. M.; Jasnow, A. M.; Gillespie, C. F.; Huhman, K. L.; Albers, H. E. GABA interacts with photic signaling in the suprachiasmatic nucleus to regulate circadian phase shifts. Neuroscience, 109, 773-778, 2002.
29. Jasnow, A. M., Huhman, K. L., Bartness, T. J., Demas, G. E. Short days and exogenous melatonin increase aggression of male Syrian hamsters (*Mesocricetus auratus*). Hormones and Behavior, 42, 13-20, 2002.
30. Harmon, A. C.; Huhman, K. L.; Moore, T. O.; Albers, H. E. Oxytocin inhibits aggression in female Syrian hamsters. Journal of Neuroendocrinology, 14, 963-969, 2002.
31. Huhman, K. L.; Solomon, M. B.; Janicki, M.; Harmon, A. C.; Lin, S. M.; Israel, J. E. Jasnow, A. M. Conditioned defeat in male and female Syrian hamsters. Hormones

and Behavior, 44, 293-299, 2003.

32. Jasnow, A. M.; Cooper, M. A.; Huhman, K. L. N-methyl-D-aspartate receptors in the amygdala are necessary for the acquisition and expression of conditioned defeat. Neuroscience, 123, 625-634, 2004.
33. Jasnow, A. M.; Davis, M.; Huhman, K. L. Involvement of central amygdalar and bed nucleus of the stria terminalis corticotropin-releasing factor in behavioral responses to social defeat. Behavioral Neuroscience, 118, 1052-1061, 2004.
34. Novak, C. M.; Ehlen, C.; Huhman, K. L.; Albers, H. E. GABA(B) receptor activation in the suprachiasmatic nucleus of diurnal and nocturnal rodents. Brain Research Bulletin, 63, 531-535, 2004.
35. Faruzzi, A. N.; Solomon, M. B.; Demas, G. E.; Huhman, K. L. Gonadal hormones modulate the display of submissive behavior in socially defeated female Syrian hamsters. Hormones and Behavior, 47, 569-575, 2005.
36. Cooper, M. A.; Huhman, K. L. Corticotropin-releasing factor type II (CRF<sub>2</sub>) receptors in the bed nucleus of the stria terminalis modulate conditioned defeat in Syrian hamsters (*Mesocricetus auratus*). Behavioral Neuroscience, 119, 1042-1051, 2005.
37. Jasnow, A. M.; Shi, C.; Israel, J. E.; Davis, M.; Huhman, K. L. Memory of social defeat is facilitated by cAMP response element-binding protein overexpression in the amygdala. Behavioral Neuroscience, 119, 1125-1130, 2005.
38. Cooper, M. A.; Karom, M.; Huhman, K. L.; Albers, H. E. Repeated agonistic encounters in hamsters modulate AVP V1a receptor binding. Hormones and Behavior, 48, 545-551, 2005.
39. Albers, H. E.; Dean, A.; Karom, M. C.; Smith, D.; Huhman, K. L. Role of V1a vasopressin receptors in the control of aggression in Syrian hamsters. Brain Research, 1073-1074, 425-430, 2006.
40. Foster, M. T.; Solomon, M. B.; Huhman, K. L.; Bartness, T. J. Social defeat increases food intake, body mass and adiposity in Syrian hamsters. American Journal of Physiology - Regulatory, Integrative and Comparative Physiology, 290, R1284-1293, 2006
41. Huhman, K. L. Social conflict models: Can they inform us about human psychopathology? Hormones and Behavior, 50, 640-646, 2006.
42. Solomon, M. B.; Foster, M. T.; Bartness, T. J.; Huhman, K. L. Social defeat and footshock increase body mass and adiposity in male Syrian hamsters. American Journal of Physiology - Regulatory, Integrative and Comparative Physiology, 292, R283-290, 2007.

43. Solomon, M. B.; Huhman, K. L. Agonistic behavior in previously defeated and non-defeated female hamsters over the estrous cycle. Hormones and Behavior, 52, 211-219, 2007.
44. Cooper, M. A.; Huhman, K. L. Corticotropin-releasing factor receptors in the dorsal raphe nucleus modulate social behavior in Syrian hamsters. Psychopharmacology, 194, 297-307, 2007.
45. Markham, C. M.; Huhman, K. L. Is the medial amygdala part of the neural circuitry modulating conditioned defeat in Syrian hamsters? Learning and Memory, 15, 6-12, 2008.
46. Cooper, M. A.; McIntyre, K. E.; Huhman, K. L. Activation of 5-HT1A autoreceptors in the dorsal raphe nucleus reduces the behavioral consequences of social defeat. Psychoneuroendocrinology, 33, 1236-1247, 2008.
47. Markham, C. M.; Norvelle, A.; Huhman, K. L. Role of the bed nucleus of the stria terminalis in the acquisition and expression of conditioned defeat in Syrian hamsters. Behavioral Brain Research, 198, 69-73, 2009.
48. Cooper, M. A.; Grober, M. S.; Nicholas, C. R.; Huhman, K. L. Aggressive encounters alter the activation of serotonergic neurons and the expression of 5-HT1A mRNA in the hamster dorsal raphe nucleus. Neuroscience, 161, 680-690, 2009.
49. Solomon, M. B.; Karom, M. A.; Norvelle, A.; Markham, C. A.; Erwin, W. D.; Huhman, K. L. Gonadal hormones modulate the display of conditioned defeat in male Syrian hamsters. Hormones and Behavior, 56, 423-428, 2009.
50. Markham, C. M.; Taylor, S. L.; Huhman, K. L. Role of amygdala and hippocampus in the neural circuit subserving conditioned defeat in Syrian hamsters. Learning and Memory, 17, 109-116, 2010.
51. Cooper, M. A.; Huhman, K. L. Blocking corticotropin-releasing factor-2, but not corticotropin-releasing factor-1 receptors or glucocorticoid feedback, disrupts the development of conditioned defeat. Physiology and Behavior, 101, 527-532, 2010.
52. Day, D.; Cooper, M. A.; Markham, C. M.; Huhman, K. L. NR2B subunit of the NMDA receptor in the basolateral amygdala is necessary for the acquisition of conditioned defeat in Syrian hamsters. Behavioral Brain Research, 217, 55-59, 2011.
53. Markham, C. M.; Luckett, C. A.; Huhman, K. L. The medial prefrontal cortex is both necessary and sufficient for the acquisition of conditioned defeat. Neuropharmacology, in press, 2011.

54. Taylor, S. L.; Stanek, L. M.; Ressler, K. J.; Huhman, K. L. Differential brain-derived neurotrophic factor expression in limbic brain regions following social defeat or territorial aggression. Behavioral Neuroscience, 125, 911-920, 2011.
55. Luckett, C.; Norvelle, A.; Huhman, K. The role of the nucleus accumbens in the acquisition and expression of conditioned defeat. Behavioral Brain Research, 227, 208-214, 2012.
56. McCann, K. E.; Huhman, K. L. The effect of escapable versus inescapable social defeat on conditioned defeat and social recognition in Syrian hamsters. Physiology and Behavior, 105, 493-497, 2012.
57. Markham, C. M.; Luckett, C. A.; Huhman, K. L. The medial prefrontal cortex is both necessary and sufficient for the acquisition of conditioned defeat. Neuropharmacology, 62, 933-939, 2012.
58. McDonald, M. M.; Markham, C. M.; Norvelle, A.; Albers, H. E.; Huhman, K. L. GABAA receptor activation in the lateral septum reduces the expression of conditioned defeat and increases aggression in Syrian hamsters. Brain Research, 1439, 27-33, 2013.
59. Jeffress, E.; Huhman, K. L. Copulatory and agonistic behavior in Syrian hamsters following social defeat. Aggressive Behavior, 39, 239-245 2012.

#### B. PUBLICATIONS – BOOK CHAPTERS

1. Albers, H. E.; Zoeller, R. T.; Huhman, K. L. Application of *in situ* hybridization to the study of rhythmic neural systems, In: *Molecular Regulation of Arousal States*, Lydic, R. (Ed.), CRC Press, Inc., pp. 1-10, 1997.
2. Meyerhoff, J. L.; Hebert, M. A.; Huhman, K. L.; Mougey, E. H.; Oleshansky, M. A.; Potegal, M.; Saviolakis, G. A.; Yourick, D. L.; Bunnell, B. N. Operational stress and combat stress reaction: Neurobiological approaches toward improving risk assessment and enhancing treatment. In: *Counter Measures for Battlefield Stressors*, Bray, G. A. and Ryan, D. H. (Eds.) Louisiana State University Press, Baton Rouge, pp. 26-87, 2000.
3. Albers, H. E.; Huhman, K. L.; Meisel, R. L. Hormonal basis of social conflict and communication. In: *Hormones, Brain and Behavior*, Pfaff, D. W.; Arnold, A. P.; Etgen, A. M.; Fahrbach, S. E.; Moss, R. L. and Rubin, R. R. (Eds.) Academic Press, San Diego, pp. 393-433, 2002.
4. Huhman, K. L.; Jasnow, A. M. Conditioned defeat. In: *Biology of Aggression*, Nelson, R. J. (Ed.) Oxford University Press, Inc., pp. 295-326, 2005.



5. Huhman, K. L. Social stress as a formative experience: Neurobiology of conditioned defeat. In: *Formative Experiences: The Interaction of Caregiving, Culture, and Developmental Psychobiology*, Worthman, C.; Plotsky, P.; Schechter, D. (Eds.) pp. 432-442, 2010.

#### C. PROCEEDINGS – NOT APPLICABLE

#### D. PROFESSIONAL PRESENTATIONS

1. Bunnell, B. N.; Levy, K. M.; Gilchrist, S. M.; Granberry, A. A.; Mougey, E. H.; Gamble, W. L.; Meyerhoff, J. L. Neuroendocrine response to stress in Syrian golden hamsters. Neuroscience Abstracts, 11, 1266, 1985.
2. Levy, K. M.; Bunnell, B. N.; Mougey, E. H.; Oleshansky, M. A.; Meyerhoff, J. L. Stress increases plasma cyclic AMP levels in golden hamsters. Neuroscience Abstracts, 13, 1296, 1987.
3. Levy, K. M.; Bunnell, B. N. Mougey, E. H.; Meyerhoff, J. L. Neuroendocrine correlates of aggressive behavior in male golden hamsters. Neuroscience Abstracts, 14, 99, 1988.
4. Huhman, K. L.; Lambe, L. M.; Mougey, E. H.; Meyerhoff, J. L. Neuroendocrine response to, and recovery from, agonistic encounters in male golden hamsters. Neuroscience Abstracts, 15, 380, 1989.
5. Mougey, E. H.; Huhman, K. L.; Kant, G. J.; Meyerhoff, J. L.; Marazzi, M. A. Species differences in plasma beta-endorphin/beta-lipotropin ratios. Neuroscience Abstracts, 15, 1080, 1989.
6. Huhman, K. L.; Moore, T. O.; Meyerhoff, J. L. Repeated exposure to social conflict increases plasma POMC-peptides and cortisol and decreases plasma testosterone. Paper presented at the American Psychological Society meeting in June, 1990.
7. Huhman, K. L.; Moore, T. O.; Meyerhoff, J. L. Behavioral consequences of repeated exposure to defeat in male golden hamsters. Paper presented at the International Society for Research on Aggression meeting in June, 1990. Aggressive Behavior, 17, 106-107, 1991.
8. Meyerhoff, J. L.; Mougey, E. H.; Moore, T. O.; Ferris, C. F.; Huhman, K. L. Pituitary, adrenocortical, and gonadal responses to acute and repeated agonistic encounters in male golden hamsters. Paper presented at the International Society for Research on Aggression meeting in June, 1990. Aggressive Behavior, 17, 85-86, 1991.

9. Huhman, K. L.; Moore, T. O.; Ferris, C. F.; Mougey, E. H.; Bernton, E. W.; Meyerhoff, J. L. Chronic fighting is followed by increases in plasma pituitary-adrenocortical hormones and decreases in testosterone and immune responsiveness in submissive male hamsters. Neuroscience Abstracts, 16, 741, 1990.
10. Sessions, G. R.; Huhman, K. L.; Meyerhoff, J. L. Corticotropin releasing factor augments acoustic startle responsiveness in hamsters. Presented at the 11th Annual Neuropeptide Conference. Breckenridge, CO. January, 1991.
11. Huhman, K. L.; Moore, T. O.; Mougey, E. H.; Meyerhoff, J. L. Hormonal responses to fighting in hamsters: Separation of physical and psychological causes. Paper presented at the American Psychological Society meeting in June, 1991.
12. Huhman, K. L.; Mougey, E. H.; Meyerhoff, J. L. Both footshock stress and defeat decrease plasma prolactin in male hamsters. Neuroscience Abstracts, 17, 1195, 1991.
13. Moore, T. O.; Huhman, K. L.; Mougey, E. H.; Meyerhoff, J. L. Prolactin release in golden hamsters is under dopaminergic inhibition. Neuroscience Abstracts, 17, 1195, 1991.
14. Huhman, K. L. The hypothalamic-pituitary-adrenocortical axis and agonistic behavior in male golden hamsters. Aggressive Behavior, 19, 22, 1993.
15. Hennessey, A. C.; Huhman, K. L.; Albers, H. E. Are sex differences in hamster flank marking mediated by vasopressin (AVP) within the medial preoptic-anterior hypothalamus (MPOA-AH)? Neuroscience Abstracts, 18, 357, 1992.
16. Huhman, K. L.; Albers, H. E. Estradiol alters the behavioral response of the MPOA-AH to arginine vasopressin (AVP) in Syrian hamsters. Neuroscience Abstracts, 18, 357, 1992.
17. Albers, H. E.; Hennessey, A. C.; Huhman, K. L.; Whitman, D. C. The medial preoptic-anterior hypothalamus as a site of integration for hormonal and social stimulation. Presented at the Conference for Reproductive Behavior, June, 1993.
18. Huhman, K. L.; Albers, H. E. Neuropeptide Y (NPY) phase shifts circadian rhythms in golden hamsters housed in constant darkness. Neuroscience Abstracts, 19, 1813, 1993.
19. Huhman, K. L.; Babagbemi, T. O.; Albers, H.E. Bicuculline blocks neuropeptide Y-induced phase advances when microinjected into the suprachiasmatic region. Presented at the Society for Research on Biological Rhythms meeting, May, 1994.

20. Huhman, K. L.; Babagbemi, T. O.; Gillespie, C. F.; Albers, H. E. Microinjection of the GABA<sub>A</sub> antagonist, phaclofen, into the suprachiasmatic region blocks neuropeptide Y-induced phase advances. Neuroscience Abstracts, 20, 1601, 1994.
21. Gillespie, C. F.; Babagbemi, T. O.; Huhman, K. L.; Albers, H. E. Muscimol reduces phase delays produced by coadministration of vasoactive intestinal peptide (VIP), peptide histidine isoleucine (PHI), and gastrin releasing peptide (GRP) into the suprachiasmatic nucleus (SCN). Neuroscience Abstracts, 20, 1600, 1994.
22. Gillespie, C. F.; Huhman, K. L.; Albers, H. E. Muscimol attenuates and bicuculline enhances the phase-delaying effects of light when injected into the suprachiasmatic nucleus (SCN). FASEB Journal, A376, 1995.
23. Huhman, K. L.; Albers, H. E. Alterations in glutamic acid decarboxylase gene expression within the suprachiasmatic nucleus during the light:dark cycle. FASEB Journal, A376, 1995.
24. Albers, H. E.; Johnson, A. E.; Huhman, K. L.; Barberis, C. Gonadal hormones influence the behavioral response to vasopressin and vasopressin receptor binding in the hamster hypothalamus. Presented at the Winter Neuropeptide Conference, 1995.
25. Huhman, K. L.; Gillespie, C. F.; Marvel, C. L.; Albers, H. E. Neuropeptide Y actions in the SCN: Effects of Y<sub>1</sub> and Y<sub>2</sub> agonists, gabaergic drugs and tetrodotoxin. Presented at the 19th International Summer School of Brain Research, "Hypothalamic Integration of Circadian Rhythms", 1995.
26. Huhman, K. L.; Albers, H. E. Cellular analysis of GAD<sub>65</sub> gene expression throughout the light-dark cycle in the dorsomedial and ventrolateral suprachiasmatic nucleus (SCN). Neuroscience Abstracts, 21, 449, 1995.
27. Albers, H. E.; Gillespie, C. F.; Marvel, C. L.; Huhman, K. L. Mechanisms of action of neuropeptide Y (NPY) in the suprachiasmatic nucleus. Neuroscience Abstracts, 21, 454, 1995.
28. Harmon, A. C.; Huhman, K. L.; Moore, T. O.; Albers, H. E. Microinjection of norepinephrine (NE) into the medial preoptic-anterior hypothalamus (MPOA-AH) regulates agonistic behavior in female Syrian hamsters. Neuroscience Abstracts, 21, 2091, 1995.
29. Albers, H. E.; Gillespie, C. F.; Huhman, K. L. Peptidergic control of circadian timing: Role of vasoactive intestinal peptide (VIP), peptide histidine isoleucine

(PHI) and gastrin releasing peptide (GRP). Presented at the Winter Neuropeptide Conference, 1996.

30. Huhman, K. L.; Gillespie, C. F.; Marvel, C. L.; Albers, H. E. Peptidergic control of circadian timing: Role of neuropeptide Y (NPY). Presented at the Winter Neuropeptide Conference, 1996.
31. Huhman, K. L.; Gillespie, C. F.; Marvel, C. L.; Mintz, E. M.; Albers, H. E. The phase shifting effects of NPY, but not muscimol, require sodium-dependent synaptic transmission in the SCN. Presented at the Society for Research on Biological Rhythms meeting, May, 1996.
32. Mintz, E. M.; Huhman, K. L.; Gillespie, C. F.; Albers, H. E. Microinjections of bicuculline into the SCN block the phase shifting effects of systemic injections of 8-OH-DPAT at CT 7. Presented at the Society for Research on Biological Rhythms meeting, May, 1996.
33. Gillespie, C. F.; Mintz, E. M.; Marvel, C. L.; Huhman, K. L.; Albers, H. E. A GABA<sub>B</sub> agonist reduces and a GABA<sub>B</sub> antagonist increases the phase-delaying effects of light when injected into the suprachiasmatic nucleus (SCN). Presented at the Society for Research on Biological Rhythms meeting, May, 1996.
34. Harmon, A. C.; Huhman, K. L.; Lee, K. N.; Albers, H. E. Social relationships alter the ability of oxytocin (OXT) to stimulate flank marking in female Syrian hamsters. Neuroscience Abstracts, 22, 2070, 1996.
35. Albers, H. E.; Mintz, E. M.; Gillespie, C. F.; Marvel, C. L.; Huhman, K. L. Microinjection of 8-OH-DPAT into the dorsal and median raphe phase shifts circadian rhythms. Neuroscience Abstracts, 22, 2052, 1996.
36. Gillespie, C. F.; Mintz, E. M.; Marvel, C. L.; Huhman, K. L.; Albers, H. E. Effects of GABA<sub>B</sub> agonists and antagonists on the phase-advancing effects of light following their injection into the suprachiasmatic nucleus (SCN). Neuroscience Abstracts, 22, 2051, 1996.
37. Johnson, A. E.; Yuan, P.-Q.; Granas, C.; Kallstrom, L.; Yu, J.; Huhman, K. L.; Larhammar, D.; Albers, H. E.; Weisel, F.-A. Differential distribution of GAD<sub>65</sub> and GAD<sub>67</sub> mRNA in the entopeduncular nucleus of the rat. Neuroscience Abstracts, 22, 891, 1996.
38. Huhman, K. L.; van der Beek, E. M. Peptidergic innervation of GnRH neurons in female Syrian hamsters. Neuroscience Abstracts, 22, 1141, 1996.
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42. GABA and the entrainment of circadian rhythms, Invited paper presented at the Society for Behavioral Neuroendocrinology, June 11, 1998.
43. *In vivo* function of NPY receptors and interaction with GABA, Invited paper presented at the FASEB Summer Conference entitled, "Neurobiology of Vertebrate Circadian Rhythm Entrainment", July 12, 1998.
44. Jasnow, A. M.; Janicki, M. M.; Banks, M. C.; Gillespie, C. F.; Huhman, K. L. Antalarmin (CP154,526), a CRF<sub>1</sub> receptor antagonist, does not block conditioned defeat in male, Syrian hamsters. Neuroscience Abstracts, 24, 1194, 1998.
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- American Society for Neurochemistry meeting, March, 2000.
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73. Solomon, M. B.; Askew, J. A.; Cooper, M. A.; Huhman, K. L. Blunted stress response in previously defeated female hamsters. Hormones and Behavior, 44, 78, 2003.
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83. Cooper, M. A.; Huhman, K. L. Corticotropin releasing factor (CRF) receptors in the dorsal raphe nucleus modulate conditioned defeat in Syrian hamsters. Neuroscience Abstracts, 30, 2004.
84. Solomon, M. B.; Foster, M. T.; Bartness, T. J.; Huhman, K. L. Social defeat and footshock increases body mass in male Syrian hamsters. Presented at the Society for the Study of Ingestive Behavior, July, 2005.
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86. Krebs, D. L.; Solomon, M. B.; Parent, M. B.; Huhman, K. L. Post-defeat injection of the beta adrenergic antagonist propranolol impairs the formation of conditioned defeat in Syrian hamsters. Presented at the American Neuroendocrine Society, June, 2005.



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88. Lin, S. M.; Huhman, K. L. Infusion of K252A blocks the acquisition of conditioned defeat in male Syrian hamsters (*Mesocricetus auratus*). Neuroscience Abstracts, 31, 2005.
89. Lin, S. M.; Krebs-Kraft, D. L.; Huhman, K. L. Temporary inactivation of the anterior dorsal hippocampus does not alter the behavioral effects of social defeat in male Syrian hamsters. Neuroscience Abstracts, 32, 2006.
90. Markham, C. M.; Huhman, K. L. The role of the medial amygdala in the acquisition and expression of conditioned defeat in Syrian hamsters. Neuroscience Abstracts, 32, 2006.
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94. Cooper, M. A.; Grober, M. S.; Nicholas, C.; Huhman, K. L. Aggressive encounters reduce 5-HT<sub>1A</sub> receptor mRNA expression in hamster dorsal raphe nucleus. Neuroscience Abstracts, 33, 2007.
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96. Markham, C. M.; Taylor, S. L.; Lockett, C. A.; Larocca, S. A.; Norvelle, A.; Huhman, K. L. Role of basolateral amygdala-ventral hippocampus interactions in the acquisition of conditioned defeat. Neuroscience Abstracts, 34, 2008.
97. Larocca, S. A.; Markham, C. M.; Norvelle, A.; Huhman, K. L. Role of the bed nucleus of the stria terminalis in the acquisition and expression of conditioned defeat. Neuroscience Abstracts, 34, 2008.
98. Lockett, C. A.; Markham, C. M.; Norvelle, A.; Huhman, K. L. Does protein synthesis inhibition in the VHA block the acquisition of conditioned defeat? Neuroscience Abstracts, 34, 2008.

99. Markham, C. M.; Taylor, S. L.; Huhman, K. L. Neural circuit mediating social stress-induced behavioral changes. Presented at Stress, Coping and Disease, November, 2008.
100. Luckett, C. A.; Ehlen, J. C.; Paul, K. N.; Huhman, K. L. Behavioral responses to social defeat: A novel model for human psychiatric disorders? Presented at Stress, Coping and Disease, November, 2008.
101. Larocca, S. A.; Markham, C. M.; Faruzzi, A. N.; Huhman, K. L. Behavioral responses to social defeat: A novel model for mood or anxiety disorders? Presented at Stress, Coping and Disease, November, 2008.
102. Markham, C. M.; Taylor, S. L.; Huhman, K. L. Role of amygdala and hippocampus in the neural circuit subserving conditioned defeat in Syrian hamsters. Neuroscience Abstracts, 35, 2009.
103. Markham, C. M.; Huhman, K. L. Potentiation of conditioned defeat via inactivation of the ventromedial prefrontal cortex in Syrian hamsters. Neuroscience Abstracts, 36, 2010.
104. McDonald, M. M.; Markham, C. M.; Norvelle, A.; Albers, H. E.; Huhman, K. L. The effects of GABA-A activation in the lateral septum on the expression of conditioned defeat in Syrian hamsters. Neuroscience Abstracts, 36, 2010.
105. Luckett, C. A.; Huhman, K. L. The role of the nucleus accumbens in the acquisition and expression of conditioned defeat in Syrian hamsters. Neuroscience Abstracts, 36, 2010.
106. Markham, C. M.; Luckett, C. A.; Huhman, K. L. Necessity vs. sufficiency of the basolateral amygdala and medial prefrontal cortex in conditioned defeat I. Neuroscience Abstracts, 37, 2011.
107. Luckett, C. A.; Markham, C. M.; Huhman, K. L. Necessity vs. sufficiency of the basolateral amygdala and medial prefrontal cortex in conditioned defeat II. Neuroscience Abstracts, 37, 2011.
108. Jeffress, E. J.; Norvelle, A.; Huhman, K. L. 7,8-Dihydroxyflavone, a TrkB receptor agonist, decreases submission levels following social defeat in Syrian hamsters. Neuroscience Abstracts, 37, 2011.
109. Markham, C. E.; Huhman, K. L. Infusion of neuropeptide Y into the basolateral amygdala reduces the behavioral effect of social defeat stress. Neuroscience Abstracts, 38, 2012.
110. Song, Z.; McCann, K.; McNeill, J.; Huhman, K. L.; Albers, H. E. Oxytocin: Role in

reward and “prosocial” behavior. Neuroscience Abstracts, 38, 2012.

111. Jeffress, E. C.; Markham, C. M.; Norvelle, A.; Huhman, K. L. Brain derived neurotrophic factor in the basolateral amygdala decreases submission following social defeat in Syrian hamsters. Neuroscience Abstracts, 38, 2012.
112. McCann, K.; Keifer, O. P.; Ressler, K. J.; Huhman, K. L. Voxel-based morphometry reveals differences between brains of defeated versus novel cage controls in hamsters. Neuroscience Abstracts, 38, 2012.

#### D. PROFESSIONAL PRESENTATIONS (CONT.): INVITED ADDRESSES

1. Aggressive behavior in male golden hamsters: Neuroendocrine and immune concomitants. National Research Council Associate Day, Walter Reed Army Institute of Research, April 13, 1990.
2. Physiological basis of agonistic behavior. Neurobiology Student Association, Randolph Macon College, May 4, 1990.
3. Winning is everything: Neuroendocrine responses to social stress. Neuroscience Student Association and Department of Psychology, University of Georgia, April 16, 1993.
4. Neuroendocrine responses to social stress. Neuropsychology and Behavioral Neuroscience Group, Georgia State University, January 14, 1994.
5. Neuropharmacology of circadian rhythms: Role of GABA and neuropeptides. Department of Pharmacology and Toxicology, University of Georgia, June 4, 1996.
6. Introduction to Psychopharmacology. Short course offered at the Georgia Psychological Association meeting, May 18, 1997.
7. Psychopharmacology Workshop, Augusta Veterans Administration Medical Center, October 10, 1997.
8. Psychopharmacology Workshop, Georgia State University Department of Psychology Alumni Weekend, May 1, 1998.
9. GABA and the entrainment of circadian rhythms, Society for Behavioral Neuroendocrinology, Atlanta, GA, June 11, 1998.
10. *In vivo* function of NPY receptors and interaction with GABA, FASEB Summer Conference, “Neurobiology of Vertebrate Circadian Rhythm Entrainment”, Snowmass, CO, July 12, 1998.

11. Psychopharmacology of Depression, Georgia State University Psychology Clinic, November 12, 1999.
12. Neurobiology of Social Stress, University of Georgia Neuroscience Student Association and Department of Psychology, February 23, 2000.
13. Role of Corticotropin Releasing Factor in Conditioned Defeat, Emory University Neurobiology and Behavior Program, September 19, 2000.
14. Neurobiology of Agonistic Behavior: What does Conditioned Defeat Tell Us?, Society for Behavioral Endocrinology, June 26, 2002.
15. Animal Models of Human Disorders, Morris Brown College Psychology Department Faculty Development Workshop, July 24, 2002.
16. Pharmacological Treatment of Anxiety, Georgia Psychological Association, October 18, 2002.
17. Pharmacological Treatment of Anxiety, Georgia State University, December 6, 2002.
18. Neurobiology of Conditioned Defeat, Emory University Neurobiology and Behavior Program, September 4, 2003.
19. Neurobiological Basis and Psychopharmacological Treatment of ADHD, Georgia State University, April 2, 2004.
20. Sex Differences in the Behavioral Response to Social Defeat in Syrian Hamsters, Society for Behavioral Neuroendocrinology Annual Meeting, Lisbon, Portugal, July 30, 2004.
21. Neuropharmacology of Depression, Georgia Psychological Association, October 15, 2004.
22. Neurobiological Basis and Psychopharmacological Treatment of ADHD, Georgia State University, November 5, 2004.
23. Aggression and Submission in Hamsters, Spelman College, November 8, 2004.
24. Social Conflict and the Acquisition and Expression of Conditioned Defeat, Foundation for Psychocultural Research, UCLA, February 12, 2005.
25. Hormones and Aggression, Behavioral Neuroendocrinology, Emory University, November 17, 2005.

26. Social Conflict and the Acquisition and Expression of Conditioned Defeat. Cold Spring Harbor Laboratories, Cold Spring Harbor, NY, July 18, 2006.
27. Conditioned Defeat in Hamsters. International Society for Research on Aggression, Minneapolis, MN, July 27, 2006.
28. Winners and Losers: Neurobiology of Conditioned Defeat. Michigan State University, East Lansing, MI, Oct 5, 2006.
29. Is Winning Everything? Keynote Address for opening luncheon for BRAIN program. Emory University, Atlanta, GA, May 29, 2009.
30. Social Stress-Induced Changes in Brain and Behavior. Social modulation of hormones, brain and behaviour: integrating mechanisms and function. Instituto Gulbenkian de Ciência, Oeiras, Portugal, June 7, 2009.
31. Winners and Losers: Social Stress-Induced Changes in Brain and Behavior. University of Georgia Neuroscience Student Association and Department of Psychology. March, 31, 2010.
32. Neurobiology of Conditioned Defeat. Biology of Social Cognition Course, Cold Spring Harbor, New York, July 18, 2010.
33. Winners and Losers: Effects of Social Stress on Brain and Behavior. The Neurobiology of Aggression and the Social Brain meeting, Ellison Medical Foundation, Palo Alto, CA, Nov 2, 2010.
34. Winners and Losers: Neurobiology of Behavioral Responses to Social Stress. Clayton State University, Nov 2, 2012.
35. Winning is Everything: Brain and Behavioral Responses to Social Stress. Emory University, Jan 17, 2013.

#### E. EDITORIAL/REVIEWER PROJECTS

##### Ad Hoc Reviewer:

Journal of Neuroscience  
 Physiology and Behavior  
 Peptides  
 Journal of Biological Rhythms  
 American Journal of Physiology  
 Neuroscience Letters  
 Prentice-Hall (book review)  
 Behavioural Brain Research  
 Behavioral Neuroscience  
 Brain Research

Brain Research Bulletin  
Neuroscience  
Neuroscience Letters  
Hormones and Behavior  
Biological Psychiatry  
Neuropsychopharmacology  
Neuroscience and Biobehavioral Reviews  
Lancet Neurology  
Cognitive, Affective, and Behavioral Neuroscience  
Genes, Brain and Behavior  
Journal of Psychiatric Research  
Cerebral Cortex  
Stress  
European Neuropsychopharmacology

Ad Hoc Grant Reviewer: National Science Foundation, 2003, 2004, 2005, 2006, 2007, 2008

Grant Reviewer (Study Section): National Institutes of Health Conte Centers, January, 2005

Grant Reviewer (NMB Study Section): National Institutes of Health, January, 2008

Grant Reviewer (BRLE Study Section): National Institutes of Health, June, 2008

Grant Reviewer (NMB Study Section): National Institutes of Health, February, 2009

Grant Reviewer, United States-Israel Binational Science Foundation, 2012

Grant Reviewer, Barrow Neurological Institute, Phoenix, Arizona, 2012-2013

Member, Neuroendocrinology, Neuroimmunology, and Rhythms Study Section (NNRS), Center for Scientific Review, National Institutes of Health, July, 2009-June 2013.

Grant Reviewer (SNNA Study Section): National Institutes of Health, July, 2013.

Grant Reviewer (ITVA Study Section): National Institutes of Health, October, 2013.

## F. GRANTS AND EXTERNAL FUNDING

National Research Council Resident Research Associateship, "Neuroendocrine Correlates of Aggressive Behavior: Effects of Behavioral, Physiological and Pharmacological Manipulations," 1988-1990, \$62,200 (direct costs).

National Institutes of Health, National Research Service Award, "Circadian Rhythms: Role of GABA in the SCN," 1992-1995, \$97,500 (direct costs).

PI, National Institutes of Health, First Independent Research Support and Transition Award NS34896, "Organization of Circadian Systems," 1995-2000, \$349,659 (direct costs).

National Institutes of Health, Initiative For Underrepresented Minorities, "Organization of Circadian Systems," 1996, \$3,255 (direct costs).

National Institutes of Health, Initiative For Underrepresented Minorities, "Organization of Circadian Systems," 1997-1998, \$4,780 (direct costs).

PI, National Institute of Neurological Disorders and Stroke Supplemental Infrastructure Grant, 1999, \$50,000 (direct costs).

National Science Foundation, Science and Technology Center Venture Grant, "Neurobiology of Conditioned Defeat", 2000-2001, \$29,020 (direct costs).

National Science Foundation, Science and Technology Center Venture Grant, "Neurobiology of Conditioned Defeat", 2001-2002, \$30,000 (direct costs).

Mentor for Ruth L. Kirschstein National Research Service Award (predoctoral) awarded to Aaron Jasnow, National Institutes of Health. "Mechanisms of stress-induced changes in behavior". 2001-2003, \$63,000 (total direct costs).

Consultant, National Institute of Mental Health, RO1, "Mechanisms of Time Discrimination", 2002-2005, PI: Jonathon D. Crystal.

PI, National Institutes of Health, RO1 MH62044, "Neurobiology of Social Behavior", 2001-2006, \$650,000 (direct costs).

National Science Foundation, Science and Technology Center Venture Grant, "Role of BDNF and Its Receptor TrkB in Mediating Conditioned Defeat in Hamsters", 2003-2004, \$29,982 (direct costs).

Co-PI (Principal Investigator: Barbara Rothbaum); National Institute of Mental Health, 1R24MH067314-10A1, "Translational Research on Extinction and PTSD", 7/1/2003-6/30/2006, \$1,210,173 (total direct costs).

Mentor for Ruth L. Kirschstein National Research Service Award (postdoctoral) awarded to Matthew A. Cooper, Ph.D., National Institutes of Health.

"Mechanisms of stress-induced changes in behavior". 2004-2007, \$163,380 (direct costs).

National Science Foundation, Science and Technology Center Venture Grant, "Gene expression changes following agonistic encounters in Syrian hamsters". 2006-2007, \$28,455 (direct costs) PI: Chris Markham; Co-PI: Kim Huhman,

PI, National Institutes of Health, RO1 MH62044, "Neurobiology of Social Behavior", 2013-2017, \$1,250,000 (direct costs).

## VIII. PROFESSIONAL AND HONOR ORGANIZATIONAL ACTIVITIES

### A. Membership

Society for Neuroscience  
International Society for Psychoneuroendocrinology  
American Psychological Society  
International Society for Research on Aggression  
Society for Research on Biological Rhythms  
Society for Behavioral Neuroendocrinology

### B. Offices/Committees

International Society for Research on Aggression  
Council Member, 1995-1996  
Nominating Committee, 2004-2005  
President, Atlanta Chapter of the Society for Neuroscience, 2011-2013

## IX. HONORS, AWARDS AND RECOGNITION

Outstanding Educator Award, Georgia Psychological Association, 1998

### Mentees earning travel awards:

Aaron Jasnow, Society for Behavioral Neuroendocrinology, 2003  
Alicia Faruzzi, Society for Behavioral Neuroendocrinology, 2004  
Matia B. Solomon, Neuroendocrine Workshop, 2005

### Other Mentee awards:

Matia B. Solomon, New Investigator Award, Organization for the Study of Sex Differences, 2008  
Cloe Luckett, Brains and Behavior Fellow, 2011-present;  
Kenneth W. and Georganne F. Honeycutt Fellowship, 2012-present.  
Katherine McCann, Brains and Behavior Fellow, 2013-present.