Kelly Gurley Lambert, PHD | CV

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EDUCATION

1988	***Ph.D***., Biopsychology, University of Georgia, Athens, Georgia
1986	***M.S***., Biopsychology, University of Georgia, Athens, Georgia
1984	***B.A***., Psychology and Biology, Samford University, Birmingham, Alabama

PROFESSIONAL EXPERIENCE

2019-present	***MacEldin Trawick Chair of Behavioral Neuroscience***, University of Richmond
2017-present	***Professor of Behavioral Neuroscience***, Dept of Psychology, University of Richmond
2008-2016	***Macon and Joan Brock Professor of Psychology***, Randolph-Macon College
2009-2011	***President***, International Behavioral Neuroscience Society
2001-2016	***Co-Director of Undergraduate Research***, Randolph-Macon College
2000-2016	***Professor and Chair,*** Department of Psychology, Randolph-Macon College
1999-2000	***Associate Professor and Chair***, Department of Psychology, Randolph-Macon College
1995-1999	***Associate Professor***, Department of Psychology, Randolph-Macon College
1989-1995	***Assistant Professor***, Department of Psychology, Randolph-Macon College
1988-1989	***Visiting Assistant Professor***, Department of Psychology, Auburn University
1986-1987	***Instructor***, University of Georgia
1985- 1986	***Histologist*** for the Department of Psychology, University of Georgia

HONORS AND AWARDS

2023	Recognized as one of three finalists for the 2024 Robert Foster Cherry National Award for Great Teaching; winner will be announced Spring, 2024
2023	Selected for the 2024-25 Phi Beta Kappa National Visiting Scholar Program (current list for 2023-24 scholars can be viewed here)
2021	Outstanding Mentor Award, University of Richmond Distinguished Scholar Award, University of Richmond

2018	International Behavioral Neuroscience Society Career Achievement Award
2017	Installation of the *Kelly Lambert Undergraduate Research Award*, Randolph-Macon College
2013	VFIC Hiter Harris Memorial Award for Excellence in Undergraduate Teaching
2010	Mary Erskine Award for Mentoring in Behavioral Neuroscience
2009	Presented with Resolution for exemplary teaching by the Virginia House of Delegates
2008	2008 ***Virginia Professor of the Year*** (awarded by the Council for Advancement and Support of Education (CASE) and the Carnegie Foundation for the Advancement of Teaching)
2008	Awarded the Macon and Joan Brock Professorship
2007	Samuel Nelson Gray Distinguished Professor Award (Randolph-Macon College)
2001	Recipient of the ***State Council of Higher Education for Virginia (SCHEV***) Outstanding Faculty Award
1995	Served as Psychology Program Chair for the 1995 meeting of the Southern Society for Philosophy and Psychology
1993	Elected to serve on the Council of the Southern Society for Philosophy and Psychology
1991	Richard M. Griffith Memorial Award, Southern Society for Philosophy and Psychology
1986	Zimmer Graduate Student Research Award for Biopsychology, University of Georgia
1986-87	President, Psi-Chi, University of Georgia Chapter
1987-88	University-Wide Non-Teaching Assistantship
1984	Magna Cum Laude graduate, Samford University, Birmingham, AL

1984 Mary E. Forman Psychology Award, Phi Kappa Phi National Honor Society
Samford University

PUBLICATIONS

Journal Articles and Book Chapters

Highlighted names indicate undergraduate students:

1. *Gurley, K.R., Peacock, L.J. & Hill, D.W. (1987). The effect of a training program and induced cognitive stress on heart rate, blood pressure, and skin conductance level. ***Journal of Sports Medicine and Physical Fitness****, 27(3),* 318-326. (*Kelly Lambert's maiden name)

2. Lambert, K.G. & Peacock, L.J. (1989). Feeding regime affects activity-stress ulcer production. ***Physiology and Behavior****, 46(4),* 743-746.

3. Lambert, K.G., Neal, T., Noyes, J., Parker, C. & Worrel, P. (1992). Food-related stimuli increase desire to eat in hungry and satiated human subjects. ***Current Psychology: Research and Reviews***, *10(4),* 297-303.

4. Lambert, K.G. & Porter, J.H. (1992). Pimozide mitigates excessive running in the activity-stress paradigm. ***Physiology and Behavior****,52,* 299-304.

5. Lambert, K.G. (1993). The activity-stress paradigm: Possible mechanisms and applications. ***Journal of General Psychology****, 120(1),* 21-32.

6. Lambert, K.G. & Kinsley, C.H. (1993). Sex differences and gonadal hormones influence susceptibility to the activity-stress paradigm. ***Physiology and Behavior****, 53(6),* 1085-1090.

7. Klein, S.L., Lambert, K.G., Durr, D., Schaefer, T. & Waring, B. (1994). The influence of environmental enrichment and sex on predator-stress response in rats. ***Physiology and Behavior****, 56,* 291-297.

8. Lambert, K.G., Kinsley, C.H., Jones, H.E., Klein, S.L., Peretti, S.N. & Stewart, K.M. (1995). Prenatal stress attenuates ulceration in the activity-stress paradigm. ***Physiology and Behavior****, 57(5)*, 989-994.

9. Humm, J.L., Lambert, K.G. & Kinsley, C.H. (1995). Reductions in c-fos activity in the medial preoptic area of prenatally-stressed male rats following exposure to sexually-receptive females. ***Brain Research Bulletin****, 37(4)*, 363-368.

10. Jones, H.E., Rowe, R., Billack, B., Hancock, C., Ruscio, M., Gonzales, C., Lambert, K. & Kinsley, C.H. (1997). Prenatal stress alters the size of the rostral anterior commissure in the rats**.** ***Brain Research Bulletin****, 42,* 341-346.

11. Kinsley, C.H., Lambert, K.G. & Jones, H.E. (1997). Experimental alterations of prenatal determinants of sexual orientation and sex-typical behavior in non-human mammals. In: Ellis, L. & Ebertz, L. (Eds)., ***Sexual Orientation: Toward a Biological Understanding***. New York: Praeger Press, 21-40.

12. Stafisso-Sandoz, G., Polley, D., Holt, E., Lambert, K.G. & Kinsley, C.H. (1998). Opiate Disruption of maternal behavior: Morphine reduction, and naloxone antagonism, of c-fos activity in the medial preoptic area of lactating rats. ***Brain Research Bulletin****, 45*, 307-313.

13. Lambert, K.G., Buckelew, S.K., Stafisso-Sandoz, G., Gaffga, S., Carpenter, W., Fisher, J. & Kinsley, C.H. (1998). Activity stress induces atrophy of apical dendrites of hippocampal pyramidal neurons in male rats. ***Physiology and Behavior****,65(1),* 43-49.

14. Lambert, K.G., Quadros, P. Aurentz, C., Lowry, C. & Kinsley, C.H. (1998). Does chronic activity-stress produce hippocampal atrophy and basal forebrain lesions? A preliminary analysis. In: ***Advancing from the Ventral Striatum to the Extended Amygdala: Implications for Neuropsychiatry and Drug Abuse***. New York: New York Academy of Sciences.

15. Kinsley, C.H., Madonia, L., Gifford, G.W., Tureski, K., Griffin, G.R., Lowry, C., Williams, J., Collins, J., McLearie, H. & Lambert, K.G. (1999). Motherhood improves learning and memory. ***Nature***, 402,137.

16. Lambert, K.G., Gerecke, K.M., Quadros, P.S., Doudera, E., Jasnow, A.M. & Kinsley, C.H. (2000). Activity-Stress increases density of GFAP-immunoreactive astrocytes in the at Hippocampus. ***Stress***, 34, 275-285.

17. Keyser-Marcus, L., Stafisso-Sandoz, G., Gerecke, K., Jasnow, A., Nightingale, L., Lambert, K.G., Gatewood, J. & Kinsely, C.H. (2001). Alterations of medial preoptic area neurons following pregnancy and pregnancy-like steroidal treatment in the rat. ***Brain Research Bulletin***, 55 (6), 737-745.

18. Lambert, K.G. (2003). The life and career of Paul Maclean: A journey toward social and neurobiological harmony. ***Physiology and Behavior***, 79, 343-349.

19. Wartella, J., Amory, E., Hoffmann, A., McNamara, I., Stevens, L., Lambert, K.G. & Kinsley, C.H. (2003). Single or multiple reproductive experiences attenuate neurobehavioral stress and fear responses in the female rat. ***Physiology and Behavior***, 79, 373-381.

20. Campbell, T., Lin, S., DeVries, C. & Lambert, K.G.(2003). Coping strategies in male and female rats exposed to multiple stressors. ***Physiology and Behavior***, 78, 495-504.

21. Lambert, K.G. & Gerlai, R. (2003). Preface: The neurobiological relevance of social behavior: Paul MacLean's legacy. ***Physiology & Behavior***, 79, 341-342.

22. Lambert, K.G. & Gerlai, R. (2003). Preface: The neurobiological relevance of social behavior: Paul MacLean's legacy. ***Physiology & Behavior***, 79, 341-342.

23. Love, G., Torrey, N., McNamara, I., Morgan, M., Banks, M., Wightman, N., Glasper, E.R., DeVries, A.C., Kinsley, C.H. & Lambert, K.G. (2005). Maternal experience produces long-lasting behavioral modifications in the rat. ***Behavioral Neuroscience***, 119, 1084-1096.

24. Lambert, K.G., Berry, A.E., Amory, E., Madonia, E., Griffin, G. & Kinsley, C.H. (2005). Pup exposure differentially enhances foraging ability in primiparous and nulliparous rats. ***Physiology and Behavior*****,** 84, 799-806.

25. Gatewood, J.D., Morgan, M.D., Eaton, M., McNamara, I.M., Stevens, L.F., Macbeth, A.H., Meyer, E.a., Lomas, L.M., Kozub, F.J., Lambert, K.G. & Kinsley, C.H. (2005). Motherhood mitigates aging-related decrements in learning and memory and positively affects brain aging in the rat. ***Brain Research Bulletin***, 66 (2), 91-98.

26. Lambert, K.G. (2005). The Clinical Neuroscience Course: Viewing mental health from neurobiological perspectives. ***Journal of Undergraduate Neuroscience Education***, 3(2), online journal; http://www.funjournal.org/downloads/Lambert.pdf

27. Lambert, K.G. (2006). Rising rates of depression in today's society: Consideration for the roles of effort-based rewards and enhanced resilience in day to day functioning. ***Neuroscience and Biobehavioral Reviews*****,** 30(4), 497-510.

28. Kinsley, C.H., Trainer, R., Stafisso-Sandoz, G., Quadros, P., Marcus, L.K., Hearon, C., Meyer, E.A., Hester, N., Morgan, M., Kozub, F.J. & Lambert, K.G. (2006). Motherhood and the hormones of pregnancy modify concentrations of hippocampal neuronal dendritic spines. ***Hormones and Behavior****,* 49(2), 131-142.

29. Lambert, K.G. (2006). Book Review for Jerome Kagan's *An Argument for Mind*. ***Journal of the American Medical Association***, 296(8), 2002-2003.

30. Lambert, K.G., Tu, K., Everette, A., Love, G., McNamara, I., Bardi, M. & Kinsley, C.H. (2007). Explorations of coping strategies, learned persistence, and resilience in Long-Evans rats: Innate vs. acquired characteristics. In: ***Resilience in Children***, New York City: New York Academy of Sciences. 1094, 319-324.

31. Lambert, K.G. (2007). Book Review for James Gross' *Handbook of Emotion Regulation*. ***Journal of the American Medical Association***, 298, 1808-1809.

32. Lambert, K. G. & Kinsley, C.H. (2008). The neuroeconomics of motherhood: Costs and Benefits of maternal investment. In: Bridges, R., Ed. (2008) ***The Parental Brain***. New York: Elsevier.

33. Kinsley, C.H., & Lambert, K.G. (2008). Reproduction-Induced Neuroplasticity: Natural behavioral and neuronal alterations associated with the production and care of offspring. ***Journal of Neuroendocrinology***, 20, 515-525.

34. Rima, B.N., Bardi, M., Friedenberg, J.M., Christon, L.M., Karelina, E., Lambert, K.G. & Kinsley, C.H. (2009). Reproductive experience and the female Sprague-Dawley rat's response to learned fear. ***Comparative Medicine***, 59, 437-443.

35. Hawley, D.F., Bardi, M., Everette, A.M., Higgins, T.J., Tu, K.M., Kinsley, C.H. & Lambert, K.G. (2010). Neurobiological constituents of active, passive and variable coping strategies in rats: Integration of neuropeptide Y and cardiovascular responses. ***Stress***, *13*, 172-183.

36. Bardi, M., Hampton, J.E., & Lambert, K.G. (2010). Fecal Dehydroepiandrosterone (DHEA) immunoreactivity as a noninvasive index of functional DHEA activity in male laboratory rats. ***Comparative Medicine,*** *60,* 455-460***.***

37. Bardi, M., Franssen, C.L., Hampton, J.E., Shea, E.A., Fanean, A. P. & Lambert, K.G., (2011). Paternal experience and stress responses in the California mouse (*Peromyscus californicus*). ***Comparative Medicine***, *60*, 20-30.

38. Lambert, K.G., Franssen, C.L., Bardi, M., Hampton, J.E., Hainley, L., Karsner, S., Tu, E.B., Hyer, M.M., Crockett, A., Baranova, A., Ferguson, T., Ferguson, G. & Kinsley, C.H. (2011). Characteristic and distinct neurobiological patterns differentiate paternal responsiveness in two Peromyscus species. ***Brain, Behavior, and Evolution***, *77*, 159-175.

39. Franssen, C.L., Bardi, M., Lambert, K.G. (2011). Using a comparative species approach to investigate the neurobiology of paternal responses. ***Journal of Visualized Experiments***, 55, e3173

40. Franssen C.L., Bardi M., ***Shea E.A., Hampton, J.E.***, Franssen R.A., Kinsley, C.H., Lambert K.G. (2011). Fatherhood Enhances Learning and Associated Neural Responsiveness. ***Journal of Neuroendocrinology***, 23, 1177-87.

41. Lambert, K.G. & Franssen, C.L. (2011). The Plastic Brain of the Mammalian Parent: Evidence from the Animals. Invited chapter in edited book ***Gender and Parenting***, Columbia University Press.

42. Lambert, K.G. & Kinsley, C.H. (2012). Neurobiological modifications at the onset of parenthood. ***Parenting: Science and Practice,*** 54, 16-27.

43. Gerecke, K.M., Kishore, R., Jasnow, A., Quadros-Menella, P., Parker, S., Koob, F.J., Kinsley, C.H., & Lambert, K.G. (2012). Alterations of sex-typical microanatomy: Prenatal stress modifies the structure of medial preoptic area neurons in rats. ***Developmental Psychobiology***, 54, 16-27.

44. Franssen, R.A., Rzucidlo, A.M., Franssen, C.L., Hampton, J.E., Benkovic, S.A., Bardi, M., Kinsley, C.H. & Lambert, K.G. (2012). Reproductive experience facilitates recovery from kainic acid-induced neural insult in female Long Evans rats. ***Brain Research***, 1454, 80-89.

45. Lambert, K.G. (2012). The parental brain: Transformations and adaptations. ***Physiology and Behavior***, 107, 792-800.

46. Blakeslee, S., DiChristina, M., Raeburn, P. & Lambert, K. (2012). Behavioral Neuroscience and the media. ***Physiology and Behavior***, 107, 617-622**.**

47. Bardi, M., Rhone, A.P., Franssen, C.L, Hampton, J.E., Shea, E.A., Hyer, M.M., Huber, J. & Lambert, K.G. (2012). Behavioral training and predisposed coping strategies interact to influence resilience in Long-Evans rats: Implications for depression. ***Stress***, 15, 306-317.

48. Bardi, M., True, M., Franssen, C.L., Kaufman, C., Rzucidlo, A. & Lambert, K.G. (2013). Effort-Based Reward (EBR) training enhances neurobiological efficiency in a problem-solving task: Insights for depression therapies. ***Brain Research***, 1490, 101-110.

49. Lambert, K.G., & Franssen, C. L. (2013). The dynamic nature of the parental brain. In: Wilcox, W.B., & Kline, K.K. (Eds). ***Gender and Parenthood: Biological and Social Scientific Perspectives***, pp. 19-39. New York: Columbia University Press.

50. Lambert, K.G., Franssen, C.L., Hampton, J.E., Rzucidlo, A.M., Hyer, M.M., True, M., Kaufman, C., & Bardi, M. (2013). Modeling Paternal Attentiveness: Distressed Pups Evoke Differential Neurobiological and Behavioral Responses in Paternal and Nonpaternal Mice. ***Neuroscience*****, 234,** 1-12.

51. Lambert, K.G., Hyer, M.M., Rzucidlo, A., Bergeron, T., Landis, T. & Bardi, B. (2014). Contingency-based emotional resilience: Effort-based reward training and flexible coping lead to adaptive responses to uncertainty in male rats. ***Frontiers in Behavioral Neuroscience***, DOI:10.3389/fnbeh.2014.00124

52. Bardi, M., Eckles, M., Kirk, E., Landis, T., Evans, S. & Lambert, K.G. (2014). Parity modifies endocrine hormones in urine and problem-solving strategies of captive owl monkeys (Aotus spp.). ***Comparative Medicine***, 64, 486-95.

53. Kinsley C.H., Blair J.C., Karp N.E., Hester N.W., McNamara I.M., Orthmeyer A.L., McSweeney, M.C., Bardi M., Karelina K., Christon L.M., Sirkin M.R., Victoria L.W., Skurka D.J., Fyfe C.R., Hudepohl M.B., Felicio L.F., Franssen R.A., Meyer E.E., da Silva I.S. & Lambert K.G. (2014). The mother as hunter: Significant reduction in foraging costs through enhancements of predation in maternal rats. ***Hormones and Beha*vior**, 66:649-654.

54. Lambert, K., Nelson, R.J., Jovanovic, T., & Cerda, M. (2015). Brains in the City: Neurobiological effects of urbanization. ***Neuroscience and Biobehavioral Reviews***, 58, 107-122.

55. Pawluski, J.L., Kinsley, C.H., & Lambert, K. (2016). Neuroplasticity in the maternal hippocampus: Relation to cognition and effects of repeated stress. ***Hormones and Behavior***, 77, 86-97.

56. Bardi, M., Kaufman, C., Franssen, C., Hyer, M.M., Rzucidlo, A., Brown, M., Tschirhart, M. & Lambert, K.G. (2016). Paper or plastic? Exploring the effects of natural enrichment on behavioral and neuroendocrine responses in Long-Evans rats. ***Journal of Neuroendocrinology***, doi:10.1111/jne.12383.

57. Kinsley, C.H., Bardi, M., Lambert, K.G., & Neigh, G. (2016). Development and Endocrinology. In: Neigh, G. (ed.). ***Sex Differences in Physiology***. New York: Elsevier.

58. Lambert, K., Hyer, M., Bardi, M., Rzucidlo, A., Scott, S., Terhune-Cotter, B., Hazelgrove, A., Silva, I. & Kinsley, C. (2016). Natural-enriched environments lead to enhanced environmental engagement and altered neurobiological resilience. ***Neuroscience***, 330, 386-394.

59. Svare, B., Bridges, R., & Lambert, K. (2016). Craig Kinsley: In Memoriam. ***Hormones and Behavior***, 84, 156-158.

60. Kent, M., Bardi, M., Hazelgrove, A., Sewell, K., Kirk, E., Thompson, B., Trexler, K., Terhune-Cotter, B. & Lambert, K. (2017). Profiling coping strategies in male and female rats: Potential neurobehavioral markers of increased resilience to depressive symptoms. ***Hormones and Behavior***, 95, 33-43.

61. Bardi, M., Prugh, Adrianna, Eubanks, B., Trexler, K., Bowden, R., Evans, S., Lambert, K.G.,

Huffman, M. (2017). The emergence of alloparental behavior: Male-immature interactions in long-tailed macaques (*Macaca fascicularis*). ***Journal of the American Association for Laboratory Animal Science***, 56, 218-228.

62. Messeder, D.J., Lambert, K., Noctor, S., Pestana, F.M., de Castro Leal, M.E., Bertelsen, M.F., Alagaili, A.N., Mohammad, O.B., Manger, P.R. & Herculano-Houzel, S. (2017). Dogs have the most neurons though not the largest brain: Trade-off between body mass and number of neurons in the cerebral cortex of large carnivoran species. ***Frontiers in Neuroanatomy***, https://doi.org/10.3389/fnana.2017.00118

63. Kent, M., Scott, S., Lambert, S., Kirk, E., Terhune-Cotter, B., Thompson, B., Neal, S., Dozier, B. Bardi, M. & Lambert, K (2018). Contingency training alters neurobiological components of emotional resilience in male and female rats. ***Neuroscience***, *386*, 121-136.

64. Neal, S., Kent, M., Bardi, M. & Lambert, K.G. (2018). Enriched environment exposure enhances social interactions and oxytocin responsiveness in male Long-Evans rats. ***Frontiers in Behavioral Neuroscience***, https://doi.org/10.3389/fnbeh.2018.00198

65. Sullivan, E., Kent, M., Thompson, B., Bardi, M. & Lambert, K. (2019). Maternal-induced shifts in allostatic demands: Reproductive experience alters emotional and cognitive biobehavioral responses in rats (Rattus norvegicus). ***Neuroscience Letters***, *701*, 1-7.

66. Kentner, A., Lambert, K., Hannah, A.J., Donaldson, S.T. (2019). Environmental enrichment: Enhancing neural plasticity, resilience and repair. ***Frontiers in Behavioral Neuroscience***, 10.3389/fnbeh.2019.00075.

67. Lambert, K., & Byrnes, E. C. (2019). Challenges to the Parental Brain: Neuroethological and Translational Considerations. ***Frontiers in Neuroendocrinology***, https://doi.org/10.1016/j.yfrne.2019.04.004).

68. Mota, B., Dos Santos, S.E., Ventura-Antunes, L., Jardim-Messeder, D., Neves, K., Kazu, R.S., Noctor, S., Lambert, K., Bertelsen, M.F., manger, P.R., Sherwood, C.C., Kaas, J.H., & Herculano-Houzel, S. (2019). White matter volume and white/gray matter ratio in mammalian species as a consequence of the universal scaling of cortical folding. ***Proceedings of the National Academy of Sciences***, 116, 15253-15261.

69. Lambert, K., Eisch, A.J., Galea, L.A.M., Kempermann, G., & Merzenich, M. (2019). Optimizing Brain Performance: Identifying mechanisms of adaptive neurobiological plasticity. ***Neuroscience and Biobehavioral Reviews***, 105, 60-71.

70. Lambert, K., Vavra, D., Kent, M. (2019). Avoiding Beach's Boojum Effect: Enhancing *bench to bedside* translation with *field to laboratory* considerations in optimal animal models. ***Neuroscience and Biobehavioral Reviews****, 104*, 191-196.

71. Crawford, L.E., Knouse, L.E., Kent, M., Vavra, D., Harding, O., LeServe, D., Fox, N., Hu, X., Li, P., Glory, C., & Lambert, K.G. (2019). Enriched environment exposure accelerates rodent driving skills. ***Behavioural Brain Research****, 378*, https://doi.org/10.1016/j.bbr.2019.112309.

72. Lambert, K., Hunter, R.G., Bartlett, A.A., Lapp, H.E., & Kent, M. (2019). In search of optimal resilience ratios: Differential influences of neurobehavioral factors contributing to stress-resilience spectra. ***Frontiers in Neuroendocrinology***,. doi: 10.1016/j.yfrne.2019.100802

73. Scarola, S., Kent, M., Neal, S., Perdoma Trejoa, J., Bardi, M., Lambert, K. (2020). Postpartum environmental challenges alter maternal responsiveness and offspring development. ***Hormones and Behavior****, 122*; 104761. doi: 10.1016/j.yhbeh.2020.104761.

74. Jacob, J., Kent, M., Benson-Amram, S., Herculano-Houzel, S., Raghanti, M.A., Ploppert, E., Drake, J., Hindi, B., Natale, N.R., Daniels, S., Fanelli, R., Miller, A., Landis, T., Gilbert, A., Johnson, S., Lai, A., Hyer, M., Rzucidlo, A., Anchor, C., Gehrt, S., & Lambert, K. (2021). Cytoarchitectural Characteristics Associated with Cognitive Flexibility in Raccoons. ***Journal of Comparative Neurology***, 529(14):3375-3388.

75. Natale, N.R., Kent, M., Fox, N., Vavra, D., & Lambert, K. (2021). Neurobiological effects of a probiotic-supplemented diet in chronically stressed male Long-Evans rats: Evidence of enhanced resilience. ***IBRO***, 11: 207-215.

76. Cruz, G. B., Vasquez, M. A., Cabañas, E., Joseph, J. N., Skeen, J. C., Lynch, K. P., Ahmed, I., Khairi, E. B., Bonitto, J. R., Clarke, E. G., Rubi, S., Hameed, N., Kaur, S., Mathew, N., Dacius, T. F., Jose, T. J., Handford, G., Wolfe, S., Feher, A., Tidwell, K., Tobin, J., Ugalde, E., Fee, S., Choe, A., Gillenwater, K., Hindi, B., Pilout, S., Natale, N.R., Domahoski, N., Kent, M.H, Jacob, J.C., Lambert, K.G., Neuwirth, L. S. (2022). Developmental Lead Exposure in Rats Causes Sex-Dependent Changes in Neurobiological and Anxiety-Like Behaviors that Are Improved by Taurine Co-treatment. ***Advances in experimental medicine and biology***, *1370*, 461–479. https://doi.org/10.1007/978-3-030-93337-1_43

77. Jacob, J., Watanabe, S., Richardson, J., Gonzales, N., Ploppert, E., Lahvis, G., Shiels, A., Wenger, S., Saverino, K., Bhalerao, J., Crockett, B., Burns, E., Harding, O., Fischer-Stenger, K., & Lambert, K. (2022). Divergent neural and endocrine responses in wild-caught and laboratory-bred Rattus norvegicus. ***Behavioural brain research***, *432*, 113978. https://doi.org/10.1016/j.bbr.2022.113978

78. Kent, M., Kovalev, D., Hart, B., Leserve, D., Handford, G., Vavra, D., & Lambert, K. (2022). The emotional impact of disrupted environmental contexts: Enrichment loss and coping profiles influence stress response recovery in Long-Evans rats. ***Journal of neuroendocrinology***, *34*(7), e13179. https://doi.org/10.1111/jne.13179

79. Kent MH, Jacob JC, Bowen G, Bhalerao J, Desinor S, Vavra D, Leserve D, Ott KR, Angeles B, Martis M, Sciandra K, Gillenwater K, Glory C, Meisel E, Choe A, Olivares-Navarrete R, Puetzer JL, Lambert K. (2022). Disrupted development from head to tail: Pervasive effects of postnatal restricted resources on neurobiological, behavioral, and morphometric outcomes. ***Frontiers in Behavioral Neuroscience*** 16:910056. doi: 10.3389/fnbeh.2022.910056.

80. E. Ploppert, J. Jacob, A. Deutsch, S. Watanabe, K. Gillenwater, A. Choe, G.B. Cruz, E. Cabañas, M.A. Vasquez, Z. Ayaz, L.S. Neuwirth, K. Lambert (2022). Influence of effort-based reward training on neuroadaptive cognitive responses: Implications for preclinical behavioral approaches for depressive symptoms, ***Neuroscience.*** doi: https://doi.org/10.1016/j.neuroscience.2022.08.002

81. Lambert, K. Wild Brains: The value of neuroethological approaches in preclinical behavioral neuroscience animal models (2023). ***Neuroscience and Biobehavioral Reviews***, 11;146:105044. doi: 10.1016/j.neubiorev.2023.105044. Epub ahead of print. PMID: 36641013.

82. Lambert, K., & Lambert, G. (2023). Biology of Leadership. IN: G.R. Goethals, S. T. Allison, G. J. Sorenson. *SAGE Encyclopedia of Leadership* https://doi.org/10.4135/9781071840801

Edited Volumes, Textbooks, and Mainstream Books

Lambert, K. (2017, 2024). ***Biological Psychology***. New York City: Oxford University Press. (Second edition is currently in press, expected publication is May 2024 with new title: *Biological Psychology, Brain in Context*).

Lambert, K. (in progress). ***Wild Brains: From Bush to Bedside.*** Princeton, NJ: Princeton University Press (expected publication, summer 2024).

Lambert, K. & Phillips, K. (in progress). *Introduction to Neuroscience*, Princeton, NJ: Princeton Univ. Press.

Lambert, K. (2018) ***Well-Grounded: The neurobiology of rational decisions***. New Haven: Yale University Press.

Lambert, K. (2011). ***The Lab Rat Chronicles: A neuroscientist reveals life lessons from the planet's most successful mammals***. New York City: Perigee Books. German translation published in 2013.

Lambert, K.G. (2008). ***Lifting Depression: A neuroscientist's hands-on approach to activating your brain's healing power***. New York City: Basic Books. Paperback released January 4, 2010. Japanese translation published in 2012.

Lambert, K., & Kinsley, C.H. (2005; 2011). ***Clinical Neuroscience: The neurobiological foundations of mental health.*** New York City: Worth. Second edition was published with Oxford University Press, Spring 2011.

I co-guest edited (with Robert Gerlai) an issue of ***Physiology and Behavior*** entitled: *A tribute to Paul MacLean: The neurobiological relevance of social behavior (2004).*

Mainstream/Popular Articles:

1. Kinsley, C.H. & Lambert, K.G. (2006). The maternal brain. ***Scientific American***, 294, 72-79.

2. Lambert, K.G. & Lilienfeld, S. (2007/ October/November). Brain Stains: Traumatic therapies can have long-lasting effects on mental health. ***Scientific American Mind***, 46-53.

3. Lambert, K.G. (2008/August/Sept issue). Depressingly Easy. ***Scientific American Mind***, 21-37

4. Lambert, K.G. (November 8, 2009). What my research students did over the summer vacation. ***Chronicle of Higher Education***, http://chronicle.com/article/What-My-Research-Students-Did/49038/

5. Lambert, K. G. (Sept/Oct 2011). A tale of two rodents: Rats teach a neuroscientist lessons of love or at least sex. ***Scientific American Mind***.

6. Lambert, K. (May 13, 2012). Nature's Madison Avenue Markets Motherhood. Op/Ed piece for ***Richmond Times-Dispatch***.

7. Lambert, K. (Dec. 21, 2013). Santa on the Brain. ***The New York Times.***

8. Lambert, K. (2015). Do or DIY. ***Royal Society for Arts (RSA) Journal***, Issue I, 20-23.

9. Lambert, K. (2019). A neuroscientist's tips for a New Year's tuneup for your brain. *The Conversation* https://theconversation.com/a-neuroscientists-tips-for-a-new-year-tuneup-for-your-brain-106977

10. Lambert, K. (2019). The neuroscience of good decision making: Lessons from lab rats. *Management Today* https://www.managementtoday.co.uk/neuroscience-good-decision-making-lessons-lab-rats/your-career/article/1588333

11. Lambert, K. (2020). Can a cartoon raccoon keep school kids safe from Covid-19? *Scientific American* (Opinion) https://www.scientificamerican.com/article/can-a-cartoon-raccoon-keep-schoolkids-safe-from-covid-19/

CONFERENCE PRESENTATIONS (K.G. Lambert is K.R. Gurley's married name):

Gurley, K.R., Peacock, L.J., & Hill, D.W. (1986). The effect of a fitness training program and induced cognitive stress on heart rate, blood pressure, and skin conductance level. Paper presented at the annual meeting of the *Southern Society for Philosophy and Psychology*, Knoxville, TN.

Gurley, K.R., Walters, P.A., & Peacock, L.J. (1987). The effect of nalmefene and the activity-stress ulcer paradigm on food consumption, body weight, ulceration, and activity. Paper presented at the *Southern Society for Philosophy and Psychology*, Atlanta, GA.

Gurley, K.R., Walters, P.A. & Peacock, L.J. (1987). The activity-stress ulcer paradigm: The effect of nalmefene on food intake, body weight, ulceration, and activity. Paper presented at the *Psi-Chi Convention for Behavioral Sciences*, University of Georgia, Athens, GA.

Gurley, K.R., & Peacock, L.J. (1988). Feeding regime affects activity-stress ulcer production. Paper presented at the *Southern Society for Philosophy and Psychology*, Miami, FL.

Lambert, K.G., & Peacock, L.J. (1989). The effect of a tryptophan-supplemented diet on activity-stress ulcer production. Paper presented at the *Southern Society for Philosophy and Psychology*, New Orleans, LA.

Lambert, K. G., & Hanrahan, L. (1990). The effect of ambient temperature on the activity-stress ulcer paradigm. Paper presented at the *Southern Society for Philosophy and Psychology*, Louisville, KY.

Lambert, K. G. (1990). A trip to monkey jungle. Paper presented at an undergraduate teaching symposium at the *Southern Society for Philosophy and Psychology*, Louisville, KY.

Jackson, D. & Lambert, K. G. (1990). Franz Gall: His life and contributions. Paper presented at the *Southern Society for Philosophy and Psychology*, Louisville, KY.

Lambert, K.G., Neal, T., Noyes, J., Parker, C. & Worrel, P. (1990). Food-related stimuli increase desire to eat in hungry and satiated human subjects. Poster presented at the *American Psychological Society*, Dallas, TX.

Lambert, K.G. (1991). The activity-stress ulcer paradigm: Possible applications and mechanisms. Paper presented at the *Southern Society for Philosophy and Psychology*, Atlanta, GA.

Lambert, K.G., & Kinsley, C.H. (1991). Sex differences and gonadal hormones influence susceptibility to the activity-stress paradigm. Poster presented at the *International Society for Developmental Psychobiology,* New Orleans, LA.

Carr, D., Wellman, J., Graham, A., Lambert, K.G. & Kinsley, C.H. (1991). Prenatal stress alters lateralization of behavior, and neuroanantomy (region brain weights) in rats. Poster presented at the *International Society for Developmental Psychobiology*, New Orleans, LA.

Lambert, K.G., Kinsley, C.H., Jones, H.E., Klein, S.L. & Peretti, S. (1992). The role of prenatal stress in the activity-stress paradigm. Paper presented at the *Southern Society for Philosophy and Psychology*, Memphis, TN.

Klein, S.L., Lambert, K.G. & Schermerhorn, N. (1992). Naturalistic observations of Llamas (Lama glama). Paper presented at the *Southern Society for Philosophy and Psychology*, Memphis, TN.

Lambert, K.G., & Porter, J.H. (1992). Pimozide mitigates excessive running in the activity-stress paradigm. Poster presented at the *International Behavioral Neuroscience Society*, San Antonio, TX.

Lambert, K.G., Kinsley, C.H., Jones, H.E., Klein, S.L., Peretti, S.N. & Stewart, K.H. (1992). The influence of prenatal stress in the activity-stress paradigm. Paper presented at the *Virginia Academy of Science*, University of Richmond, Richmond, VA.

Stewart, K.M. & Lambert, K.G. (1993). The effect of prenatal alcohol exposure, environmental enrichment, and gender on social competition in rats. Poster presented at the *International Behavioral Neuroscience Society*, Clearwater, FL.

Jones, H. E., Lambert, K.G. & Kinsley, C.H. (1993). An investigation the role of Corticotropin-Releasing Factor in the activity-stress paradigm. Paper presented at the *Southern Society for Philosophy and Psychology*, New Orleans, LA.

Klein, S.L, Lambert, K.G., Durr, D., Schaefer, T. & Waring, B. (1993). The influence of environmental enrichment and gender on predator-stress response in rats. Paper presented at the *Southern Society for Philosophy and Psychology*, New Orleans, LA.

Humm, J.L., Lambert, K.G., Kinsley, C.H. (1993). Sexual behavior in prenatally stressed (P-S) males: Evidence for concomitant reductions in c-fos activity in the medial preoptic area (MPOA). Poster presented at the *International Society for Developmental Psychobiology*, Alexandria, VA.

Jones, H., Kinsley, C.H. & Lambert, K.G. (1993). Prenatal stress disrupts the sexual motivation of females. Paper presented at the annual meeting for *The International Society for Developmental Psychobiology*, Alexandria, VA.

Jones, H., Rowe,R., Billack, B., Hancock, C., Ruscio, M., Gonzalez, C., Lambert, K.G. & Kinsley, C.H. (1993). Prenatal stress alters the size of the anterior commissure in the rat brain. Poster presented at the annual meeting for the *Society for Neuroscience*, Washington, D.C.

Kinsley, C.H., Lambert, K.G. & Jones, H. (1993). Bridging the brain gap: Involving college students in an educational program aimed at elementary neuroscience instruction. Poster presented at the annual meeting for the *Society for Neuroscience*, Washington, D.C.

Lambert, K.G., Stewart, K.M., Jones, H.E., Humm, L. & Kinsley, C.H. (1994). The effect of postnatal stress on the activity-stress paradigm. Paper presented at the *Southern Society for Philosophy and Psychology,* Atlanta, GA.

Cook, C.D., Jones, H.E., DeBus, S.D., Gonzalez, C., Ruscio, M., Billack, B., Humm, L., Kinsley, C. & Lambert, K.G. (1994). The effect of environmental enrichment on problem-solving ability and cortex development in fetal alcohol exposed (FAE) rats. Poster presented at the *International Behavioral Neuroscience Society*, Clearwater Beach, FL.

DeBus, S.J., Cook, C.D. & Lambert, K.G. (1994). Physostigmine reduces number of distractions in fetal alcohol exposed (FAE) rats' performance in the sawdust digging task. Poster presented at the *International Behavioral Neuroscience Society*, Clearwater Beach, FL.

Lambert, K.G. & Hughes, A.T. (1994). Senior Research Projects at Randolph-Macon College. Poster presented at the *Council of Undergraduate Research* meeting in Lewiston, ME.

Lambert, K.G. (1995). Sex-specific effects of physostigmine on attentional deficits in fetal alcohol exposed (FAE) rats. Paper presented at the *Southern Society for Philosophy and Psychology*, Virginia Beach, VA.

Lambert, K.G. (1995). Teaching psychology of learning: Beyond Skinner Boxes and dignity. Paper presented at the *Southern Society for Philosophy and Psychology*, Virginia Beach, VA.

Lambert, K.G. (1995). Sex and age-specific effects of physostigmine on problem solving ability and attentional deficits in fetal alcohol exposed (FAE) rats. Poster presented at the *American Psychological Society* in New York City, NY.

Polley, D., Stafisso-Sandoz, G., Holt, B., Carpenter, W., Jones, N., Lambert, K.G. & C.H. Kinsley (1995). Does depressed c-fos expression regulate morphine disruption of maternal behavior in rats? Poster presented at the *International Society for Developmental Psychobiology*, San Diego, CA.

Lambert, K.G., Kinsley, C.H. Buckelew, S. McCarty, R., Stafisso-Sandoz, G., Carpenter, W. & Fisher, J. (1996). The effect of activity-stress on dendritic morphology of pyramidal neurons in the rat hippocampal CA3 area. Paper presented at the *Southern Society for Philosophy and Psychology*, Nashville, TN.

Lambert, K.G., Kinsley, C., Buckelew, S., Stafiso-Sandoz, G., Gaffga, S. (1996). Activity-stress induces atrophy of apical dendrites of hippocampal pyramidal neurons in male rats. Poster presented at the *International Behavioral Neuroscience Society*, Cancun, Mexico.

Buckelew, S., Lambert, K.G., Stafiso-Sandoz, G. & Kinsley, C. (1996). The effect of pup-sensitization on medial preoptic area neurons in virgin rats. Poster presented at the *International Behavioral Neuroscience Society*, Cancun, Mexico.

Stafisso-Sandoz, G., Polley, D., Holt, B., Carpenter, W., Jones, N., Lambert, K.G. & Kinsley, C.H. (1996). Does depressed c-fos expression regulate morphine disruption of maternal behavior in rats? Poster presented at the *International Society for Developmental Psychobiology*, Washington, D.C.

Stafisso-Sandoz, G., Gerecke, K., Keyser, L., Lambert, K.G. & Kinsley, C.H. (1996). Modifications in somal size in medial preoptic (mPOA) neurons after pregnancy, pregnancy-like steroidal treatment and lactation in the rat. Poster presented at the *International Behavioral Neuroscience Society*, Cancun, Mexico.

Stafisso-Sandoz, G., Polley, D., Hearon, C., Lambert, K.G. & Kinsley, C.H. (1996). Morphine-disruption of maternal behavior: Mediation through reductions of c-fos activation. Paper presented at the *Virginia Academy of Science*, Richmond, VA.

Lambert, K.G., Doudera, E., Kishore, R. & Kinsley, C.H. (1997). Increased somal size in the Nucleus Accumbens Shell of rats exposed to activity-stress: Potential role in maintenance of excessive running. Paper presented at the *Southern Society of Philosophy and Psychology*, Atlanta, GA.

Lambert, K.G., Doudera, E., Kant, G.J., Bauman, R.A. & Kinsley, C.H. (1997). Does control over stress mitigate hippocampal dendritic atrophy? Poster presented at the *International Behavioral Neuroscience Society*, San Diego, CA.

Jasnow, A., Gerecke, K, Meuller, E., Quadros, P., MeElroy, M., Esterhai, G., Trainer, R. (1997). Possible modifications of nitric oxide synthase activity in medial preoptic area (mPOA) of activity-stressed male rats. Paper presented at the annual meeting of the *Virginia Academy of Science*, Virginia Tech, Blacksburg, VA.

Lambert, K.G. (1998). Focusing (at 400 and 1600x) on nerve cells: This is your brain—this is your brain on stress. Paper presented at the *Southern Society for Philosophy and Psychology*, New Orleans, LA.

Diehl, R.L., Harrell,A., Lambert, K.G., Quadros, P., Esterhi, G., McElroy, M., Muller, E., Trainer, R. & Kinsley, C.H. (1998). Influence of activity-stress on c-fos density in nucleus accumbens. Poster presented at the *American Psychological Society*, Washington, D.C.

Lambert, K.G., Quadros, P., DeVries, C., Kishore, R., Gerecke, K. & Kinsley, C. (1998). Effects of pair-bonding on prairie voles' response to chronic unpredictable stress. Poster presented at the *International Behavioral Neuroscience Society*, Richmond, VA.

Bachrach, E., Wright, M.E., Doudera, E., Quadros, P., Kishore, R., Gerecke, K., Kinsley, & Lambert, K.G. (1998). Reduced complexity of CA3 hippocampal neurons in male and female rats exposed to chronic unpredictable stress. Poster presented at the *International Behavioral Neuroscience Society*, Richmond, VA.

Lambert, K.G. (1998). Teaching in Graduate School: A distraction from research or preparation for your real career? Panel discussant at the *International Behavioral Neuroscience Society*, Richmond, VA.

Lambert, K.G., Quadros, P., Aurentz,C., Lowry, C. & Kinsley, C.H (1998). Does chronic activity-stress produce hippocampal atrophy and basal forebrain lesions? A preliminary analysis. Poster presented at the *New York Academy of Sciences* conference on: Advancing from the ventral striatum to the extended amygdala: Implications for neuropsychiatry and drug abuse. Charlottesville, VA.

Kinsley, C.H., Madonia, L., Trainer, R., Gifford, G.W. Miller, S., Tureski, K. & Lambert, K.G. (1998). Motherhood enhances learning and memory: Accompanying alterations in neuronal and glial morphology. Poster presented at the *Society for Neuroscience*, Los Angeles, CA.

Williams, J.J., Aurentz, C.A., Gifford, G.W., Wartella, J.E., Miller, S.D., Amory, E.A., Kinsley, C.H. & Lambert, K.G. (1999). Maternal experience enhances behavioral responsiveness to a predator

odor but decreases c-fos activity in the extended amygdala of rats. Poster presented at the *International Behavioral Neuroscience Society*, Nancy, France.

Lowry, C.A., Lambert, K.G., Aurentz, C.A., Felts, P.T., DeVries, A.C., Sundstrum, A.C., Amory, E.A., Wartella, J.E., Gifford, G.W., Miller, S.D., Kinsley, C.H. (1999). An investigation of sex differences in the rat's neurochemical and behavioral responses to ecologically relevant stressors. Poster presented at the *International Behavioral Neuroscience Society*, Nancy, France.

Aurentz, C.A., Felts, P.T., Lowry, C.A., Wartella, J.E., Miller, S.D., Amory, E.A., Gifford, G.W., Kinsley, C.H. & Lambert, K.G. (1999). Increased c-fos and tyrosine hydroxylase activity in the extended amygdala of rats displaying compulsive-like running. Poster presented at the *International Behavioral Neuroscience Society*, Nancy, France.

Lowry, C., Williams, J., Collins, J., McLearie, H. & Lambert, K.G. (1999). Maternal experience enhances spatial learning ability in rats. Poster presented at the *Society for Behavioral Neuroendocrinology* in Charlottesville, VA.

Amory, E.A., Wartella, J.E., Plozsay, A., Williams, A., Dillon, A., Griffin, G., Beresik, M., Lambert, K.G. & Kinsley, C.H. (1999). Potential alterations of neurogenesis following the transition from virgin to maternal/lactating female. Poster presented at the *Society for Behavioral Neuroendocrinology* in Charlottesville, VA.

Wartella, J.E., Amory, E.A., Plozsay, A., Belinsky, E., Lambert, K.G. & Kinsley, C.H. (1999). Differences in reproductive/maternal experience may alter behavioral and neural responsiveness to a stressor in the female rat. Poster presented at the *Society for Behavioral Neuroendocrinology* in Charlottesville, VA.

Lambert, K.G., Gerecke, K.M., Quadros, P.S., Doudera, E., Jasnow, A.M. & Kinsley, C.H. (1999). Chronic stress increases density of GFAP-immunoreactive astrocytes in the rat hippocampus. Poster presented at the *Society for Neuroscience*, Miami, FL.

Amory, E.A., Wartella, J.E., Williams, A., Dillon, A., Ploszay, A., Griffin, G. Madonia, L., Graber, A., Babcock, S.G., Lambert, K.G. & Kinsley, C.H. (1999). Motherhood modifies neurogenesis in hippocampus. Poster presented at the *Society for Neuroscience*, Miami, FL.

Berry, A.M. & Lambert, K.G. (1999). Vocalizations and tail-flapping in free-ranging tree squirrels. Poster presented at the Animal Behavior Society, Bucknell University.

Berry, A.M., Wright, M.E., Yarett, P., Amory, E.A., Canetti, D.J.C., DeVries, A.C., Kinsley, C.H., Fischer-Stenger, K. & Lambert, K.G. (2000). An investigation of the effects of social contact on glucocorticoid and immunological responses to chronic stress in male rats. Paper presented (by

K.Lambert) at the *International Behavioral Neuroscience Society* meeting in Denver, CO.

Glasper, E.R., Lambert, K.G., Aurentz, C., Amory, E., Griffin, G., Graber, A. & Kinsley, C.R. (2000). An investigation of the neurobiological mechanisms of withdrawal in activity-stress rats. Poster presented at the *American Psychological Society*, Miami, FL.

Lambert, K.G. & Kinsley, C.H. (2000). Maternal Experience Enhances Spatial Learning in Rats. Paper presented at the *American Psychological Society*, Miami, FL.

Amory, E.A., Madonia, L., Wartella, J.E., Babcock, S.G., Hogan, D. & Lambert, K.G.(2000). Neurogenesis (NG) and neural and behavioral stress responsiveness are altered by motherhood and repeated parity experiences. Poster presented at the *Society for Neuroscience*, New Orleans, LA.

Lambert, K.G., Berry, A., Amory, E.A., Madonia, L., Griffin, G. & Kinsley, C.H. (2000). Maternal experience improves spatial learning in primiparous rats. Poster presented at the *Society for Neuroscience*, New Orleans, LA.

Glasper, E., Kaiss, K., Raffetto, C., & Lambert, K.G. (2001). Reproductive experience alters anxiety and learning ability in *Peromyscus californicus* males and females. Poster presented at the *International Behavioral Neuroscience Society* annual meeting, Cancun, Mexico.

Lin, S., Glasper, E., Lambert, K.g., Madonia, L., Gatewood, J. & Kinsley, C.H. (2001). Behavioral and neurobiological correlates of the addiction syndrome: Effects of maternal experience on withdrawal-induced changes in mesolimbic activity. Poster presented at the *International Behavioral Neuroscience Society* annual meeting, Cancun, Mexico.

Lambert, K.G., Meyer, M., Fischer-Stenger, K., Zanetti, D.J.C., deVries, A.C., Glasper, E., Lin, S., Gatewood, J., Kinsley, C.H. (2001). Social contact during chronic unpredictable stress modulates stress responsivity and immunological functioning in *Peromyscus californicus*. Poster to be presented at the annual meeting of the *Society for Neuroscience* held in San Diego, CA.

Gatewood, J., Eaton, M., Madonia, L., Babcock, S., Griffin, G., Lambert, K., and Kinsley, C.H. (2001). Reproductive-Facilitated aging in rats: Parity and pup sensory stimulation may forestall some aspects of senescent memory loss. Poster to be presented at the annual meeting of the *Society for Neuroscience* held in San Diego, CA.

West, J. & Lambert, K.G. (2001). The effects of social contact on behavioral responses following stressful and enriching environments. Presented at the *Virginia Academy of Science* annual meeting at James Madison University, May, 2001. **This paper won "Best Paper in Psychology."*

Lin, S., Campbell, T., DeVries, C., & Lambert, K.G.(2002). Effects of chronic stress responsivity in Peromyscus Californicus. Poster presented at the *International Behavioral Neuroscience Society* annual meeting in Capri, Italy.

Campbell, T., Lin, S., DeVries, C., & Lambert, K. (2002). An exploration of coping strategy consistencies in male and female rats exposed to multiple stressors. Poster presented at the *International Behavioral Neuroscience Society* annual meeting in Capri, Italy.

Lambert, K.G. (2002). Conversations with Paul MacLean: Reflections on his career and advice for behavioral neuroscientists. Paper presented at the *International Behavioral Neuroscience Society* annual meeting in Capri, Italy.

C.H. Kinsley, J. Gatewood, M. Morgan, L. Flores, A. Hoffman, M. Eaton, J. Dallam, I.McNamara, S. Lin & K. Lambert. Maternal experience and/or pregnancy preserve cognitive performance in aged (24-month old) female rats. Poster presented at the annual meeting of the *Society for Neuroscience*, Orlando, FL, November, 2002.

Lambert, K.G., Glasper, E.R., DeVries, A.C. & Klein, S.L. (2002). The effect of chronic unpredictable stress and social contact on stress responsivity and skin immune function in California Deer Mice (Peromyscus Californicus). Poster presented at the annual meeting of the *Society for Neuroscience*, Orlando, FL, November, 2002.

Lin, S.M., Glasper, E.R., Campbell, T., Kinsley, C.H. & Lambert, K.G. (2003). Activity-stress modifies hippocampal morphology and locus coeruleus fos-immunoreactivity. Poster presented at the *International Behavioral Neuroscience Society* in San Juan, Puerto Rico, April, 2003.

Love, G., Stevens, L., Hoffman, A., Wightman, N., Morgan, M., McNamara, I., Karp, N., Jeanotte, A., Kinsley, C.H. & Lambert, K.G. (2003). Maternal experience produces hippocampal glial alterations and enduring learning enhancement in Long-Evans rats. Poster presented at the *Mother and Infant Conference* in Montreal, Canada.

McNamara, I., Love, G., Lambert, K.G. & Kinsley, C.H. (2003). Long lasting diminution of anxiety responses as a consequence of reproductive experience (RE). Poster presented at the *Mother and Infant Conference* held in Montreal, Canada.

Swonguer, L., Lambert, K., and Klein, S. (2003). Lipopolysaccharide-activated immune function influences affiliative behaviors and mating preferences in Peromyscus californicus. Poster presented at the *Society for Behavioral Neuroendocrinology* meeting held in Cincinnati OH, June 2003.

Garrett, A., Capri, V.J., Torrey, N., Evans, S., Hughes, A., Kinsley, C.H. & Lambert, K.G. (2003). Parenting experience enhances spatial learning in common marmosets (Callithrix jacchus). Poster presented at the Mother and Infant conference held in Montreal, Canada.

Lambert, K.G., Love, G., Stevens, L., McNamara, I., Morgan, M., Hoffman, A., Wightman, N., Jeannotte, A., Karp, N. & Kinsley, C.H. (2003). Long-lasting maternal-induced cognitive enhancement, decreased emotionality, and accompanying hippocampal GFAP- and BDNF-immunoreactivity in Long-Evans rats. Poster to be presented at the *Society for Neuroscience* meeting in New Orleans, LA, November, 2003.

C.H. Kinsley, A. Jeannotte; N. Karp, M. Morgan, N. Wightman, L. Flores-Stevens, A. Hoffman, I. McNamara, Klatzkin, R., Banks, M. & K. Lambert . (2003). Motherhood modifies the display of diverse types of learning and memory (L & M) in the female rat. Poster presented at the *Society for Neuroscience* meeting in New Orleans, LA, November, 2003.

Torrey, N., Love, G., McNamara, I., Brown, K., Kinsey, C.H. & Lambert, K.G. (2004). Maternal experience modifies responsiveness to novel stimuli in young and senescent Long-Evans rats. Poster presented at the *International Behavioral Neuroscience Society* held in Key West, FL, June, 2004.

Love, G., McNamara, I., Kinsley, C., Lambert, K. (2004). Influences of maternal experience on cognitive, emotional, and social competition responses across the lifespan of Long-Evans rats. Poster presented at the *International Behavioral Neuroscience Society* held in Key West, FL, June, 2004.

Lambert, K.G., Love, G.,McNamara, I., Wightman, N., Torrey, N., Kinsley, C.H. (2004). Maternal experience differentially modifies cortical and hippocampal neurons in senescent Long-Evans rats. Poster presented at the *Society for Neuroscience* meeting held in San Diego, CA, October, 2004.

Kinsley, C.H., Wightman, N., Orthmayer, A., Banks, M., Karp, N., McNamara, I., McSweeney, M. & Lambert, K.G. (2004). The mother as hunter: Reproductive experience enhances predatory behavior in the female rat. Poster presented at the *Society for Neuroscience* meeting held in San Diego, CA, October, 2004.

Tu, K., Everette, A., Love, G., McNamara, I., Banks, M., Kinsley C., Lambert, K.G. Coping strategies in Long-Evans male rats: Innate vs. Acquired Characteristics. Poster presented at the annual meeting of the *International Behavioral Neuroscience Society* held in Santa Fe, NM, June 2005.

Everette, A., Tu, K., Love, G., McNamara, I., Kinsley, C.H., Lambert, K.G. Paternal responsivity in biparental (*Peromyscus californicus*) and uniparental (*Peromyscus maniculatus*) mice. Poster presented at the annual meeting of the *International Behavioral Neuroscience Society* held in Santa Fe, NM, June 2005.

Lambert, K.G. (2005). The clinical neuroscience course: Viewing mental health from multiple neurobiological perspectives. Talk given at the *National Institute for Teaching of Psychology* held in St. Petersburg, FL Jan, 2005.

Lambert, K.G. (2005). The clinical neuroscience course: Viewing mental health from multiple neurobiological perspectives. Talk given at the National Science Foundations/Project Kaleidoscope workshop entitled: *Leadership, Laboratories, and a Curriculum for the 21st Century* held at Macalester College in July 2005.

Love, G., Stevens, L., Klein, S.L., Conway, A., Kinsley, C.H. & Lambert, K.G. (2005). Nissl analyses indicate maternal-induced hippocampal and amygdalar neuronal/glial plasticity in wild-caught Norway rats. Poster presented at the annual meeting for the *Society for Neuroscience* held in Washington, D.C.

Kinsley, C.H., Hester, N., Banks, M., Karelina,K., Rima, B., Macbeth, A., Stevens, L. & Lambert, K.G. (2005). Pregnancy/motherhood induction and maintenance of neuroplasticity in the maternal rat. Poster presented at the annual meeting for the *Society for Neuroscience* held in Washington, D.C.

Lambert, K.G., Tu, K., Everette, A., Love, G., McNamara, I., Bardi, M. & Kinsley, C.H.(2006). Explorations of coping strategies, learned persistence, and resilience in Long Evans rats: Innate vs. acquired characteristics. Poster presented at *Resilience in Children* conference jointly sponsored by the New York Academy of Sciences and Brown Medical School held in Washington, D.C.

Lambert, K.G. (2006). The adaptive nature of parental responsiveness: Lessons from the rat races, wild-caught rats, and deadbeat dads. Talk given at the *International Behavioral Neuroscience Society*, Whistler, B.C. in June, 2006.

Everett, A., Tu, K., Contino, R., Rima, B., Major, J., Conway, A.F., Kinsley, C.H., Lambert, K.G. (2006). Plasticity of paternal responsiveness in two peromyscus species. Poster presented at the *International Behavioral Neuroscience Society*, Whistler, B.C.

Lambert, K.G., Tu, K., Everette, B., Bardi, M. & Kinsley, C.H. (2006). Flexible coping strategies lead to enhanced resilience in chronically stressed male rats. Poster presented at the *Society for Neuroscience* meeting in Atlanta, GA.

Kinsley, C.H., Bardi, M., Karelina, E., Rima, G., Christon, L., Friedenbert, J., Sirkin, M., Chipko, C., Victoria, L., Drew,M., Fyfe, C. & Lambert, K.G. (2006). Track, attack, and consume: Pregnancy/parenthood induction of an improved predatory behavioral repertoire and accompanying neural enhancements in the rat. Poster presented at the Society of Neuroscience meeting in Atlanta, GA.

Everette, A., Higgins, T., Tu, K., Bardi, M., Kinsley, C.H. & Lambert, K.G. (2007). Paternal experience enhances behavioral and neurobiological responsivity associated with affiliative and

nurturing responses. Poster to be presented at the *International Behavioral Neuroscience Society* to be held in Rio de Janeiro, Brazil.

Higgins, T., Everette, A., Fleming, D., Christon, L., Kinsley, C.H. & Lambert, K.G. (2007). Maternal experience enhances neurobiological and behavioral responses in an attention set-shifting paradigm. Poster to be presented at the *International Behavioral Neuroscience Society* to be held in Rio de Janeiro, Brazil.

Fleming, D.F., Everette, A., Higgins, T., Tu, K., Bardi, M., Kinsley, C.H. & Lambert, K.G. (2007). Resiliency in rats: An investigation of the effects of coping strategies on neurobiological responsiveness. Poster to be presented at the *International Behavioral Neuroscience Society* to be held in Rio de Janeiro, Brazil.

Lambert, K.G. (2007). Maternal-induced neurobiological and behavioral plasticity. Invited talk, *Perinatal Physiology: From uterus to brain*. University of Edinburgh, Scotland. (February, 2007)

Lambert, K.G. (2007). The Adaptive Nature of Parental-Induced Neurobiological Modifications: Consideration of enhanced resilience in maternal and paternal rodent models. Invited talk, *The Parental Brain* conference; Boston MA. (June, 2007)

Lambert, K.G., Fleming, D.F., Tu, K., Farrell, M., Bardi, M. & Kinsley, C.H. (2007). Diminished depressive-like symptoms and accompanying neurobiological modifications in flexible coping rats. Poster presented at the Society for Neuroscience meeting, San Diego, CA (Nov, 2007).

Crockett, A[1].; Fleming, D[1].; Tu, K[1].; Sirkin, M[1].; Bardi, M[2].; Kinsley, C.H[2].; Lambert, K.G[1]. (2008) Neurobiological correlates of depressive symptomology: An exploration of sex-dependent alterations in motivation, anhedonia, and coping strategies. Poster presented at the *International Behavioral Neuroscience Society* meeting in St. Thomas, US Virgin Islands (June, 2008).

Hyer, M.; Crockett, A.; Rzucidlo, A.; Kuehn, J.; [1]Hawley, D.F.; Lambert, K.G. (2008) Effort-driven rewards and learned persistence: A novel animal model for building resilience against depression. Poster presented at the *International Behavioral Neuroscience Society* in St Thomas, US Virgin Islands (June, 2008).

Lambert, K.G., Higgins, T., Everette, A., Fleming, D., Christon, M., Bardi, M., Chan, C., Baranova, A., Felicio, L., Kinsley, C.H. & Franssen, C. L. (2008). Maternal experience enhances motor abilities and may potentially alter cerebellar spine number and morphology in Long-Evans rats. Poster presented at the annual meeting of the *Society for Neuroscience* meeting in Washington DC (November, 2008).

Ferguson, T.R., Victoria, L., Norkunas, T., Worthington-Stoneman, E., Jones, C., French, K., Skurka, D., Chan, C., Baranova, A., Felicio, L., Lambert, K.G. & Kinsley, C.H. (2008). Diminution of

deposits of aging-related neurodegenerative substances in the brains of maternal rats. Poster presented at the annual meeting of the *Society for Neuroscience* meeting in Washington DC. (November, 2008).

Bardi, M., Lambert, K.G. & Kinsley, C.H. (2008). Grooming analysis as a behavioral indicator of the expression of neuroplasticity of motherhood. Poster presented at the annual meeting of the *Society for Neuroscience* meeting in Washington DC (November, 2008).

Lambert, K.G. (2008). The Dynamic Parental Brain: Lessons from ancient brains, vice-presidential candidates and rodent models. Invited talk for the *Gender and Parenting Conference* hosted by the Institute for American Values, hosted by The University of Virginia (October, 2008).

Karsner, S., Hall, K., M'Coy, G., Franssen, C.L. & Lambert, K. (2009). Rough-and-tumble play enhances focused attention in juvenile male Long-Evans rats. Poster presented at the *International Behavioral Neuroscience Society* meeting in the Bahamas (June, 2009).

Rzucidlo, A., Franssen, C.L., Baranova, A., Kinsley, C.H. & Lambert, K.G. (2009). Maternal experience may protect hippocampal learning and memory from neurotoxic insult. Poster presented at the *International Behavioral Neuroscience Society* meeting in the Bahamas (June, 2009).

Hyer, M.M., Karsner, S., Tu, E., Franssen, C.L. & Lambert, K.G. (2009). Effort-driven rewards training enhances neurobiological resilience in male Long-Evans rats. Poster presented at the *International Behavioral Neuroscience Society* meeting in the Bahamas (June, 2009).

Kinsley, C.H., Norkunas, T., Worthington-Stoneman, D., Dinces, S.M., Bodary, J.M., Wright, C.L., Vincent, M., Tomarchio, A.J., Dibello, A.M., Baranova, A.I., Felicio, L.F., Bardi, M., Lambert, K.G. & Franssen, A. (2009). The "maternal neuron": Production and activation of specific neurons that are responsive to offspring sensory cues, and that may dictate quality/quantity of maternal care. Poster presented at the *Society for Neuroscience* meeting in Chicago, IL (October, 2009).

Franssen, A., Franssen, C.L., Rzucidlo, A.M., Benkovic, S.A., Shea, E.A., Baranova, A., Kinsley, C.H. & Lambert, K.G., (2009). Maternal resilience: Neurobiological and behavioral responses following neurotoxin exposure. Poster presented at the *Society for Neuroscience* meeting in Chicago, IL (October, 2009).

Franssen, C.L., Karsner, S., Tu, E., Hyer, M.M., Franssen, A., Kinsley, C. & Lambert, K.G. (2009). Hippocampal plasticity associated with paternal responsivity in two Peromyscus species. Poster presented at the *Society for Neuroscience* meeting in Chicago, IL (October, 2009).

Lambert, K.G., Franssen, C.L., Hainley, L., Karsner, S., Tu, E., Hyer, M., Crockett, A., Baranova, A., Ferguson, T. & Kinsley, C.H. (2009). The paternal neurobiological circuit: Explorations in two congeneric Peromyscus species. Poster presented at the *Society for Neuroscience* meeting in Chicago, IL (October, 2009).

Franssen, C.L., Shea, E.S., Hampton, J.E., Bardi, M., Huber, J., Hyer, M.M., Rhone, A., Franssen, R.A., Kinsley, C.H. & Lambert, K.G. (2010). Fatherhood enhances learning and memory. Talk (given by CLF at the *International Behavioral Neuroscience Society* meeting in Sardinia, Italy.

Huber, J., Franssen, C.L., Bardi, M., Shea, E.S., Hampton, J.E., Hyer, M. M., Rhone, A., Lambert, K.G., (2010). Back to nature: differential effects of natural and artificial enriched environments on cognition and neuroplasticity in California deer mice (*Peromyscus californicus*). Poster presented at the *International Behavioral Neuroscience Society* meeting in Sardinia, Italy.

Rhone, A., Bardi, M., Franssen, C.L., Shea, E.S., Hampton, J.E., Hyer, M.M., Huber, J.,& Lambert, K.G. (2010). Recipe for resilience: Explorations of coping strategies and effort-driven reward training in male Long-Evans rats. Poster presented at the *International Behavioral Neuroscience Society* meeting in Sardinia, Italy.

Blake, C., Franssen, C.L., Hampton, J.E., Lambert, K.G. (2010). Rough-and-tumble play improves performance in the attention set-shifting task. Poster presented at the *International Behavioral Neuroscience Society* meeting in Sardinia, Italy.

Lambert, K.G. (2010). Prehistoric Prozac: Examining the neurobiological constituents of adaptive coping strategies and effort-driven reward training. Talk presented at the *International Behavioral Neuroscience Society* meeting in Sardinia, Italy.

Bardi, M., Franssen, C. L., Hampton, J.E., Shea, E.A., Fanean, A. & Lambert, K.G. (2010). Paternal experience and stress responses in the California mouse (Peromyscus californicus). Poster presented at the *International Behavioral Neuroscience Society* meeting in Sardinia, Italy.

Hampton, J.E., Franssen, C. L., Bardi, M., Lambert, K.G. (2010). Paternal experience alters neuroplasticity and cell proliferation in California deer mice (Peromyscus californicus). Poster presented at the *International Behavioral Neuroscience Society* meeting in Sardinia, Italy.

Lambert, K.G., Rhone A., Bardi M., Franssen C.L., Hampton, J.E., Fanean, A.P., Hyer M.M., Huber J., (2010). Neurobiological aspects of resilience: Influences of effort-driven reward training and coping strategies. *Abstracts of the Society for Neuroscience,* Session 90:21/GGG5.

Franssen C.L., Hampton, J.E., Bardi M., Shea E.A, Huber J., Rhone A., Franssen R.A., Hyer M.M., Lambert, K.G. (2010). Neuroplasticity underlying enhanced cognition following paternal experience in *Peromyscus californicus*. *Abstracts of the Society for Neuroscience,* Session 405:18/MMM38.

Lambert, K.G. (2011). The dynamic parental brain: More than a mom and pop operation. Presidential address, *International Behavioral Neuroscience Society*, Steamboat Springs, CO.

Franssen, C.L., Kauffman, C., Bardi, M. & Lambert, K.G., (2011). Skyscrapers and Haylofts: An exploration of differential housing in Long-Evans rats. Presentation given at the *International Behavioral Neuroscience Society*, Steamboat Springs, CO.

Lambert, K.G., Franssen, C.L., Hampton, J.E., Rzucidlo, A., Hyer, M.M., True, M., Kaufman, C. & Bardi, M. (2011). Distressed pups evoke differential neurobiological and behavioral responses in paternal and nonpaternal Peromyscus mice. Poster presented at the *Society for Neuroscience* meeting, Washington DC.

Bardi, M., True, M., Franssen, C.L., Kaufman, C., Rzucidlo, A.M., Steinagel, A. & Lambert, K.G. (2011). Effort-driven reward training enhances behavioral and neurobiological resilience in an unsolvable probe test: Implications for depression. Poster presented at the *Society for Neuroscience* meeting, Washington DC.

Hyer, M., Rzucidlo, A., de Silva, I., Bardi, M. & Lambert, K. (2012). Extended exposure to natural and artificial enriched environments: Neurobiological and behavioral responses in male Long-Evans rats. Poster presented at the International Behavioral Neuroscience Society, Kona HI.

Kaufman, C., Brown, M., Tschirhart, M., Rzucidlo, A., Hyer, M., Bardi, M. & Lambert, K. (2012). Natural elements in enriched environments enhance emotional resilience in male Long Evans rats. Poster presented at the International Behavioral Neuroscience Society, Kona HI.

Tschirhart, M., Kaufman, C., Brown, M., Rzucidlo, A., Hyer, M., Bardi,M. & Lambert, K. (2012). When the going gets tough, do fathers matter? An investigation of family structure and resilience in a biparental (Peromyscus californicus) and uniparental (Peromyscus maniculatus) mouse species. Poster presented at the International Behavioral Neuroscience Society, Kona HI.

Brown, M., Kaufman, C., Tsichirhart, M., Rzucidlo, M., Hyer, M., Bardi, M., de Silva I. & Lambert, K. (2012). An examination of predisposed coping strategies and neurobiological responses in male rats exposed to various problem-solving tasks. Poster presented at the International Behavioral Neuroscience Society, Kona HI.

Lambert, K.G. (2012). Rodent models exploring effective behavioral therapies enhancing mental health resilience: Evaluation of predisposed coping strategies and effort-based reward contingency training. Talk presented at the International Behavioral Neuroscience Society meeting in Kona HI.

Lambert, K.G., Hyer, M., Rzucidlo, A., deSilva, I. & Bardi, M. (2012). Back to nature: Natural as opposed to artificial, enriched environments enhance emotional resilience in male rats. Poster presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.

Lambert, K.G., Hyer, M.M., Hazelgrove, A., Rzucidlo, A., Bergeron, T. & Bardi, M. (2013).

Neurobiological effects of contingency training in male rats exhibiting predisposed coping strategies: Implications for depression. Poster presented at the annual meeting of the International Behavioral Neuroscience Society, Dublin, Ireland.

Lambert, K.G., Hyer, M.M., Hazelgrove, A., Rzucidlo, A., Bergeron, T., Landis, T., Bardi, M. (2013). Contingency training enhances resilience against symptoms of depression: Intersections of endocrine, emotional, cognitive and neuroplasticity measures. Poster presented at the annual meeting of the Society for Neuroscience in San Diego CA.

Kirk, E., Eckles, M., Landis, T., Evans, S., Lambert, K.G., Bardi, M**.** *Parental Behavior and the Stress Response in New World Monkeys: A comparative Approach***.** International Behavioral Society, Las Vegas, June 9-15, 2014.

Thompson, B., Kirk, E., Hazelgrove, A., Bardi, M**.,** Lambert, K.G. *Coping profiles, emotional resilience and corticosteroid receptors in male rats: A preliminary investigation.* International Behavioral Society, Las Vegas, June 9-15, 2014.

Landis, T., Bardi, M., Hyer, M., Rzucidlo, A., Lambert, K. *Explorations of creative problem-solving and social responses in free-ranging raccoons: A potential role of von Economo neurons?* International Behavioral Society, Las Vegas, June 9-15, 2014.

Lambert K.G., Bardi M., Landis T., Hyer M.M., Rzucidlo A., Gehrt S., Anchor C., Messeder D.J., Herculano-Houzel S. Behind the Mask: Neurobiological indicants of emotional resilience and cognitive function in wild raccoons (*Procyon lotor*). Society for Neuroscience, Washington, D.C., November 15-19, 2014.

Trexler, K.; Bowden, R., Lambert, K.G., Bardi, M. Hormonal correlates of male-juvenile interactions in long-tailed macaques (*Macaca fascicularis*). *American Society of Physical Anthropology*, St. Louis, MO, March 25-28, 2015.

Lambert, K.G. Behind the Mask: Neurobiological indicants of emotional resilience and cognitive function in wild raccoons (*Procyon lotor*). *Southern Society for Philosophy and Psychology*, April 4, 2015.

Kent, M., Hazelgrove, A., Sewell, K., Kirk, E., Thompson, B., Lambert, S., Trexler, K., Terhune-Cotter, B., Bardi, M. & Lambert, K. Phenotyping emotional resilience: Flexible coping strategies align with adaptive neurobiological responses to prediction errors and challenge tasks in male and female rats. *International Behavioral Neuroscience Society*, June 2-7, 2015.

Kirk, E., Kent, M., Thompson, B., Hazelgrove, A., Sewell, K., Bardi, M. & Lambert, K. Mother rats know best: An investigation of maternal experience on cognitive and emotional resilience. *International Behavioral Neuroscience Society*, June 2-7, 2015.

Scott, S., Kent, M., Thompson, B., Kirk, E., Hazelgrove, A., Sewell, K., Bardi, M. & Lambert, K. (2015) Play it again, sam: An investigation of rough-and-tumble Play on neurobiological and cardiovascular markers of emotional regulation in rats exposed to repeated stressors. *International Behavioral Neuroscience Society*, Victoria, B.C.

Thompson, B, Kent, M., Kirk, E., Sewell, K., Bardi, M. & Lambert, K. (2015) A change of heart: Mapping coping style phenotypes to cardiovascular and neurobiological responses associated with emotional regulation in male and female rats *(Rattus norvegicus)*. *International Behavioral Neuroscience Society*, Victoria, B.C.

Kent, M., Hazelgrove, A., Sewell, K., Kirk, E., Thompson, B., Lambert, S., Trexler, K., Terhune-Cotter, B., Bardi, M. & Lambert, K. (2015). Coping strategies influence emotional resilience and neurobiological markers of depressive symptoms in male and female rats. *Society for Neuroscience*, Chicago, IL.

Kent, M., Kirk, E., Thompson, B., Lambert, S., Terhune-Cotter, B., Bardi, M. & Lambert, K. (2016) Contingency training influences neurobiological responses to environmental threats and cognitive uncertainty in male and female rats: A potential rat model for behavioral therapy. *Society for Neuroscience* ***Abstracts*****.** 74.13 San Diego, CA.

Kent, M., Scott, S., McKearney, N., Dozier, B., Lambert, S., Terhunecotter, B., Kirk, E., Thompson, B., Bardi, M., Lambert, K. (2016) Exploring neurobiological markers of resilience through life's ups and downs: effects of contingency training in male and female Long-Evans rats. *International Behavioral Neuroscience Society***.** Budapest, Hungary.

McKearney, N., Dozier, B., Lambert, S., Scott, S., Bardi, M., Kent, M. & Lambert, K. (2016) Resilience Therapy for Depression: Exploring Neurobiological Adjustments to Predisposed and Acquired Behavioral Strategies. *International Behavioral Neuroscience Society***.** Budapest, Hungary.

Kirk, E., Thompson, B., Barha, C., Galea, L., Bardi, M., Kent, M. & Lambert, K. (2016) An investigation of maternal experience on neurobiological and behavioral responses in middle-aged female rats. *International Behavioral Neuroscience Society***.** Budapest, Hungary.

Gibson, A., Kinsley, C., Kent, M. & Lambert, K. (2017). Exploring maternal-based neuroplasticity: Neuroanatomical modifications in the rodent prefrontal cortex. *International Behavioral Neuroscience Society*, Hiroshima, Japan.

Neal, S., Scarola, S., Perdomo, J., Thompson, B., Lambert, S., Kent, M., Bardi, M. & Lambert, K. (2017). Embracing nature's social network: The effect of an engaging environment on social

responsiveness and oxytocin-immunoreactivity. *International Behavioral Neuroscience Society*, Hiroshima, Japan.

Scarola, S., Kent, M., Bardi, M., Neal, S., Perdomo-Trejo, J., Thompson, B., Lambert, S. & Lambert, K. (2017). Neuroeconomics of motherhood: Investigating the neurobiological effects of restricted resources and threat presence in lactating maternal rats (*Rattus norvegicus*). *International Behavioral Neuroscience Society*, Hiroshima, Japan.

Lambert, K.G., Perdomo Trejo, P., Kent, M., Sydnor, C., Bartlett, A.A., Lapp, H.E., Scarola, S.J., Neal, S., Thompson, B., Vavra, D., Bardi, M. & Hunter, R.G. (2017) Neurobiological components of varying coping strategies: Influence of behavioral, endocrine, neural and dynamic genome markers. Poster presented at the annual meeting of the *Society for Neuroscience*, Washington DC.

Kent, M., Scarola, S., Bardi, M., Neal, S., Perdomo-Trejo, J., Thompson, B., Lambert, S. & Lambert, K. (2017). An investigation of restricted environmental resources and threat presence on maternal responsiveness: A rodent model of Variable Socioeconomic Status. Poster presented at the annual meeting of the *Society for Neuroscience*, Washington, D.C.

Herculano-Houzel, S., Dos Santos, S.E., Messeder, D., Neves, K., Siqueira, R., Noctor, S., Lambert, K., Manger, P. Sherwood, C., Kaas, J. & Mota, B. (2017). Cortical folding determines white matter volume and white/gray matter ratio across mammalian species. Poster presented at the annual meeting of the *Society for Neuroscience*, Washington, D.C.

Natale, N., Kent, M. & Lambert, K. (2018). An investigation of stress responsivity and neurobiological effects of probiotic-supplemented diets in chronically stressed male Long-Evans rats. Talk presented at the *Science Exchange* (Lallemand, LLC.), Montreal, CA.

Kovalev, D., Brooks, M., Kent, M. & Lambert, K. Tracking the impact of early-life challenges on neurobiological correlates of social and stress responses in female adult rats (2018). Poster presented at the *International Behavioral Neuroscience Society* annual meeting in Boca Raton FL, June, 2018.

Fox, Nathan, Crawford, Elizabeth, Knouse, L., Vavra, D., Kent, M. & Lambert, K. (2018). When Behavior Drives Neurobiological Explorations: A preliminary investigation of rodent driving responses and accompanying biomarkers of stress adaptation. Poster presented at the *International Behavioral Neuroscience Society* annual meeting in Boca Raton FL, June, 2018.

Lambert, K.G. Maximizing Neurobiological Affordances via Fine-Tuned Response-Outcome Contingencies (2018). Talk presented at the *International Behavioral Neuroscience Society* meeting in Boca Raton, FL, June 2018.

Lambert, K.G. (2018). In search of relevant biobehavioral umwelts in preclinical neuroscience investigations: Aligning behavioral and neurobiological approaches in animal models of depression and emotional resilience. Talk presented at the *International Behavioral Neuroscience Society* meeting in Boca Raton, FL, June 2018.

Lambert, K.G. (2018). The Snark was a Boojum: Reconsideration in the context of Behavioral Neuroscience. Talk presented at the *International Behavioral Neuroscience Society* meeting in Boca Raton, FL, June 2018.

Lambert, K.G. (2018). An investigation of stress responsivity and and neurobiological effects of probiotic-supplemented diets in chronically stressed male Long-Evans rats. Talk presented at the *Science X Conference* at Lallemand, LLC, Montreal, CA, February, 2018.

Lambert, K.G. (2018). Nurturing through adversity: Neurobiological effects of parental challenges. Talk presented at *The Parental Brain Conference*, Toronto, CA, July, 2018.

Lambert, K.G. (2019). Behind the Mask: An exploration of neurobiological responses in raccoons (*Procyon lotor*). Talk presented at The International Behavioral Neuroscience Society, Cairnes, Australia, June, 2019.

Choe, A., Gillenwater, K, Hindi, B, Pilout, S, Kent, M, Neuwirth, L.S., Skeen, J, Lynch, K, Ahmed, I. Khairi, E , Bonitto, J. Cabanas, E. Vasquez, M, Cruz, G., Joseph, J., Lambert, K. (2019). Neurobiological and anxiety-like behavioral outcomes of perinatal Pb-exposure in male and female rats. Poster presented at *The International Behavioral Neuroscience Society*, Cairns, Australia, June, 2019.

Kent, M., Bowen, G., Desinor, S. Vavra, D., Sciandra, K., Glory, C., Meisel, E., Olivares-Navarrete, R., Puetzer, J. (2019). Disrupted Development: Sex-dependent effects of postnatal restricted resources on neurobiological, behavioral and morphological outcomes. Poster presented at *The International Behavioral Neuroscience Society*, Cairns, Australia, June, 2019.

Leserve, D., Glory, C., Fox, N., Breakall, K., Meisel, E., Vavra, D., Crawford, L.E., Knouse, L.E.,Kent, M., Lambert, K. (2019). Driving Neurobiological Explorations: Preliminary investigations of biobehavioral effects of passive and active transportation on emotional resilience in *Rattus norvegicus.* Poster presented at *The International Behavioral Neuroscience Society*, Cairns, Australia, June, 2019.

Natale, N., Hindi, B., Santore, P., Kent, M., & Lambert, K. (2019). An Investigation of a Probiotic-Supplemented Diet on stress responsivity and immune function in Male Long-Evans Rats. Poster presented at *The Society for Neuroscience*, Chicago, IL, October, 2019.

Jack Drake, Sarah Benson-Amram, Molly Kent, Sarah Daniels, Rachel Fanelli, Amy Gilbert, Shylo Johnson Annie Lai, Anderson Miller, Nick Natale, Suzana Herculano-Houzel, Kelly Lambert Raccoon Brains

by the Numbers: Insights on Problem-Solving Competency. Poster presented at *The Society for Neuroscience*, Chicago, IL., October, 2019.

Kent, M. Bowen, G. Desinor, S. Vavra, D. Sciandra, K. Gillenwater, K. Glory, C., Meisel, E. Olivares-Navarrete. R. Puetzer, J. Lambert, K (2019). Disrupted Development: Sex-dependent effects of postnatal restricted resources on neurobiological, behavioral and morphological outcomes. Poster presented at *The Society for Neuroscience*, Chicago, IL., October, 2019.

Ploppert, E., Jacob, J., Deutsch, A., Watanabe, S., Gillenwater, K., & Lambert, K. Modeling Behavioral Therapeutic Approaches for Major Depression Disorder (MDD): The impact of effort-based reward (EBR) training on attentional and plasticity processes in male and female rats. Presented at the *International Behavioral Neuroscience Society* virtual meeting, June, 2020.

Jacob, J., Drake, J., Ploppert, E., Benson-Amram, S., Kent, M., Daniels, S., Fanelli, R., Gilbert, A., Johnson, S., Lai, A., Miller, A., Natale, N., Herculano-Houzel, S., & Lambert, K. Hippocampal Cellular Profiles Associated with Cognitive Flexibility in Captive Raccoons. Presented at the *International Behavioral Neuroscience Society* virtual meeting, June, 2020.

Bhalerao, J., Kent, M., Bowen, G., Jackson, E., Meisel, E., Ploppert, E., Jacob, J., & Lambert, K. An exploration of restricted postpartum resources and probiotic treatment on varying immune and threat responses in male and female Long-Evans rats. Presented at the *International Behavioral Neuroscience Society* virtual meeting, June, 2020.

Bhalerao, J; Kent, M; Bowen, G; Jackson, E; McComb, N; Meisel, E; Olivares-Navarrete, R; Puetzer, J; Ploppert, E; Jacob, J; Lambert, K (2021). An investigation of varying maternal resources on offspring physical development, neuroendocrine responses, and movement in male and female Long-Evans rats. Virtual poster presented at the *International Behavioral Neuroscience Society* annual meeting held in Puerto Vallarta, Mexico, June, 2021.

Ploppert, E., Jacob, J., Harding, O., Wagner, S., Choe, A., Crockett, B., Bardi, M., Neuwirth, L., Kent, M., Lambert, K. (2021). Modeling Behavioral Therapeutic Approaches for Major Depression Disorder (MDD): The impact of effort-based reward (EBR) training on stress responsiveness and emotional resilience in male and female rats. Poster presented at the *International Behavioral Neuroscience Society* annual meeting held in Puerto Vallarta, Mexico, June, 2021.

Jacob, J., Watanabe, S., Gonzales, N., Richardson, J., Ploppert, E.G., Lahvis, G., Shiels, A.G., Wenger, S., Saverino, K., Bhalerao, J., Crockett, B., Burns, E., Harding, O., Stenger, K., Lambert, K. (2021) Neurobiological differences between laboratory and wild-trapped *Rattus Norvegicus*: Implications for translational value of preclinical psychiatric models and therapeutic interventions. Virtual poster presented at the annual *Society for Neuroscience* meeting, held, 2021.

Jacob, J., Hindi, B., Ploppert, E, Stanton, L., Benson-Amram, S., Johnson, S., Kent, M., & Lambert,

K. (2021). Neural Characteristics of Captive Raccoons in a Reversal Learning Task Poster presented at the *International Behavioral Neuroscience Society* annual meeting held in Puerto Vallarta, Mexico, June, 2021.

Burns, E; Gonzales, N; Crockett, B; Ploppert, E; Jacob, J; Cameron, H; Lambert, K. (2022). Driving is a no (new) brainer: The impact of adult neurogenesis on cognitive learning in male Long-Evans rats. Poster presented at the *International Behavioral Neuroscience Society* annual meeting held in Glasgow, Scotland, June, 2022.

Bhalerao, J, Jacob, J, Ploppert, E, Crockett, B, Wenger, S, Burns, E., Saverino, K., Gonzales, N, Yun, S, Eisch, A, Lambert, K. (2022). The effects of Effort-Based Reward training and chemogenetic activation of the lateral habenula on behavioral and neuroendocrine responses in stressful contexts. Poster presented at the International Behavioral Neuroscience Society annual meeting held in Glasgow, Scotland, June, 2022).

Jacob, J., Richardson, J., Crockett, B., Luby, P., Shatalov, Y., Gonzalez, N., Hunter, R., (2022). Exploring Natural Adaptations: Neurobiological comparisons of male and female laboratory and wild populations of *Rattus norvegicus.* Poster presented at the annual *Society for Neuroscience* meeting in Nov., 2022.

Luby, P., Jacob, J., Richardson, J., Shatalov, Y., Gomez-Sanchez, E., Gomez-Sahchez, C., Harding, O., Kent, M., Tryon, S., & Lambert, K. (2023). Beyond the Neurons: Cerebrovasculature comparisons in Wild-trapped and Laboratory Rats (*Rattus norvegicus*). Poster presented at the *International Behavioral Neuroscience Society* in Niagra Falls, CA.

Tryon, S.C., Harding, O., Shatalov, Y., Tome, B., Luby, P., Crockett, B., Bastian, L., Hooper, M., Kent, M., Lambert, K. (2023). Behavioral and neurobiological differences observed in rodent model of enhanced anticipation of positive experiences. Poster presented at the *International Behavioral Neuroscience Society* in Niagra Falls, CA.

INVITED TALKS:

The activity-stress ulcer paradigm: Possible mechanisms and applications University of Richmond (October, 1989).

The activity-stress ulcer paradigm: Unraveling the mysteries of the rat race Randolph-Macon Faculty Luncheon (January, 1991).

The activity-stress paradigm: Possible mechanisms and applications The College of William and Mary (November, 1992).

The activity-stress paradigm The Medical College of Virginia (September, 1993).

The double-edged sword: The beneficial and detrimental effects of stress Randolph-Macon College Summer Undergraduate Research Fellowship (SURF) program (July, 1996).

This is your brain; this is your brain on stress Randolph-Macon College Faculty Luncheon (October, 1997).

This is your brain; this is your brain on stress Richmond Chapter of *Phi Beta Kappa* (October, 1998).

The double-edged sword: The beneficial and detrimental effects of chronic stress University of Richmond (September, 1999).

M is for the Many Things…: The Effect of Maternal Experience on Brain and Behavior Randolph-Macon College Faculty Luncheon (October, 2000).

SURF's Up: A look at R-MC's Summer Undergraduate Research Fellowship (SURF) program Randolph-Macon College Faculty Luncheon (Fall, 2000).

Living with life's stressors: Lessons from my rats Randolph-Macon College: Talk delivered to students at risk under the supervision of the HAC. (Fall, 2001).

SURF 2001: Riding the waves of discovery Randolph-Macon College Community Roundtable (Fall, 2001).

Summer undergraduate research fellowship (SURF) program at R-MC: Riding the waves of discovery State Council of Higher Education in Virginia, Hampden-Sydney College (Spring, 2002).

Success in College and Beyond: Lessons learned from psychological science….and, my rats Maggie Walker High School (Spring, 2002).

The faces of clinical neuroscience Randolph-Macon Faculty Luncheon: (Fall, 2005).

A neuroscientist's quest for mental health: Lessons from rats, mice and resilient humans Hermitage High School, Richmond, VA (January, 2006).

The faces of clinical neuroscience St. Paul's School for Girls Psychology Conference, Brooklandville, MD (April, 2006).

Solving the Mystery of Rising Rates of Depression: Have the answers been in our hands all along? The College of William and Mary, Psychology Dept. (March, 2006).

Dealing with life's many challenges: The neurobiology of stress, coping and resilience VCU Brain Day for high school students (March 2007).

Effectively managing the stress of life: Lessons from resilient rodents, clinical neuroscience, and vacuum cleaners River Road Baptist Church (September 13, 2006).

Effectively managing the stress of life: Lessons from resilient rodents, clinical neuroscience, and vacuum cleaners. Randolph-Macon Board of Trustee Spouses (October 28, 2006).

Depression, Stress and Coping VCU Clinical Neuroscience Course (October, 2007).

In search of effective mental health therapies: Lessons from rats, vacuum cleaners and neuroscience Ashland Rotary Club (February 2008).

Prehistoric Prozac: Building neurobiological resilience against the emergence of depression Virginia Science Museum (June, 2008).

Building Resilience against the emergence of depression: Lessons from rats, vacuum cleaners and neuroscience. Innsbrook Rotary Club (July, 2008).

Lifting Depression: Feedback and collaborative opportunities R-MC Faculty Luncheon (February 18, 2009).

Prehistoric Prozac: Depressing neurobiological insights to our contemporary passive lifestyles VCU Undergraduate and High School Brain Day (March 11, 2009).

Lifting Depression: Have important clues been in our hands all along? Virginia Festival of the Book in Charlottesville, VA (March 19, 2009).

Lessons from ancient brains, vice-presidential candidates and rodent models Michigan State University Department of Psychology (March 23, 2009).

Whisker Wisdom: Life Lessons from Resilient Rodents Science Museum of Virginia (March 25, 2009).

Prehistoric Prozac. Covenant Woods Retirement Community (March 30, 2009).

Coping with life's stressors: Lessons from rats, vacuum cleaners and neuroscience. Atlee High School: (April, 2009).

The ever-changing brain: Tips for enhancing our mental and emotional lives Regional Meeting of Delta Kappa Gamma held in Little Rock, Arkansas: (July 16, 2009).

Prehistoric Prozac: Glimpses of the past inform current views of resilient and resourceful brains Regional Meeting of Delta Kappa Gamma held in Little Rock, Arkansas (July 16, 2009).

R-MC Back to school retreat: *Undergraduate research and motorcycle repair* (August 26, 2009).

Richmond Kiwanis Club: *Prehistoric Prozac* (September 21, 2009).

Local meeting of Delta Kappa Gamma: *Prehistoric Prozac* (October 13, 2009).

One of two speakers for the American Psychological Associations Teaching of Psychology workshop. *The Essential Role of Biological Psychology in Mental Health Education* (January 21, 2010). E-conference filmed at Ball State University.

Prehistoric Prozac: Examining the neurobiological constituents of adaptive coping strategies and effort-driven reward training. Department of Psychiatry and Behavioral Genetics, MCV (Jan 21, 2010).

The Dynamic Parental Brain: Lessons from ancient brains, vice-presidential candidates and rodent models. Invited Psi Chi keynote address at Mary Washington University (April 16, 2010).

Prehistoric Prozac: Examining the neurobiological constituents of adaptive coping strategies and effort-driven reward training. Charlottesville Chapter of the National Alliance of Mental Illness (NAMI), (May 20, 2010).

Prehistoric Prozac. Talk given at Brain Day for high school students held at VCU (March 14, 2011).

Prehistoric Prozac: Stress and Coping through the ages. Max McGraw Wildlife Center in Chicago Illinois (July, 2011).

The Lab Rat Chronicles: Neurobiological lessons from the rodent models. Talk given at the Smithsonian Institute for Natural Museum of Natural History (September 21, 2011).

Prehistoric Prozac: Insights from neuroscience and animal models. Talk given at the Virginia Counseling Conference held at the University of Richmond (May 18, 2011).

The Dynamic Parental Brain: Tracing the roots of nurturing and caring for others. Science Museum of Virginia (November 28, 2011).

Prehistoric Prozac. Talk given to the members of the Shepherd Center (October 4, 2012).

The Dynamic Parental Brain: The neurobiology of nurturing and caring for others. Keynote address for dedication of the Thalhimer Lecture Hall in the Science Museum of Virginia (November 28, 2012).

The Lab Rat Chronicles: Neurobiological lessons from the rodent models. RMC Faculty Luncheon (April 4, 2012).

Prehistoric Prozac. Presentation for the Shepherd Center, Richmond, VA (January 23, 2013).

A Day in the Life of a Behavioral Neuroscientist. Presentation for St. Catherine's High School, Richmond, VA (February 21, 2013).

Prehistoric Prozac: Stress, Coping and Resilience. Presentation for the VCU Governor's School, Richmond VA (May 22, 2013).

The Dynamic Parental Brain. Bowan Family Center, Washington, D.C.; (January 9, 2014).

Prehistoric Prozac. Averett University, Danville, VA (January, 2015).

Prehistoric Prozac: The Neurobiology of Effort-Driven Rewards. The University of Wyoming, Department of Zoology and Physiology (September 18, 2015).

Nature's Family Health Plan: Neurobiological benefits in primate and rodent parental models. Bowen Center, Washington, D.C. (April 14, 2016).

The Neurobiology of Real Life: Lessons from rats, brains and personal experiences. Bay Path University, Long Meadow, MA (April 20, 2016).

Prehistoric Prozac: The Neurobiology of Effort-Driven Rewards. Dept of Psychology, University of Colorado at Denver (August 29, 2016).

The Neurobiology of Real Life: Lessons from Rodents, Raccoons and Monkeys. Dean Williams Park Lecture, Christopher Newport University (February 24, 2017).

Animal Behavior: From neurobiological foundations to training. Invited lecture for students interested in animal-related careers at Highland Springs High School (July 13, 2017).

Depression: Perspectives from a Behavioral Neuroscientist. Invited lecture for graduate Brain and Behavior class, Virginia Commonwealth University (August 1, 2017).

Prehistoric Prozac: The biology of Stress and Emotional Resilience. Invited lecture for Crossridge retirement community (January 23, 2018).

Prehistoric Prozac: The Neurobiology of Effort-Driven Rewards. Dept of Psychology, Ursinus College (February 26, 2018).

The Literary Salon: Authentically scientific. The James River Writers and Poe Museum (March 8, 2018).

Prehistoric Prozac: The neurobiology of effort-based rewards and environmental comfort zones, Dept of Biomedical Engineering, Virginia Commonwealth University (October 3, 2018).

Prehistoric Prozac: The neurobiology of effort-based rewards. Departments of Pharmacology and Toxicology, Brody Medical School, Eastern Carolina University (October 10, 2018).

Well-Grounded: The Neurobiology of Rational Decisions, Science Museum of Virginia, March 6, 2019.

Improving our neuroplasticity. TEDx Bermuda, Oct 5, 2019 (Over 375,000 views) https://www.youtube.com/watch?v=gOJL3gjc8ak

Behaviorceuticals: Nature's prescriptions for prosperous brains. Invited lecture for Cedarfield Retirement Community on Feb 28th, 2020

Training the Brain for Life's Adventures: Lessons from the U of R Driving Rats, Science Museum of Virginia, August 19, 2020.

Leveraging Neuroscience for Improving Performance. Virtual workshop for Society for Industrial and Organizational Psychology, October 23, 2020.

Fine-Tuning our Brains for Optimal Performance. Woman's Club of Virginia, January 25, 2021.

Experiential Rx for Optimal Brain Functions. Covenant Woods Retirement Community. June 27, 2022.

Fine-tuning our brains for optimal performance: Lessons from rats, raccoons and lemurs, Dunlora Society, University of Richmond, March, 2023.

Brains Gone Wild: Neuroethological and Mental Health Perspectives from the Bush to Bench to Bedside. Rosalind Franklin School of Medicine, March 2023.

Brain Sculpting, Profs and Pints, Triple Crossing Pub, Richmond VA June, 2023.

Brains Gone Wild: Neuroethological and Mental Health Perspectives from the Bush to Bench to Bedside and Beyond. Invited Keynote Address, International Behavioral Neuroscience Society, June, 2023.

Experience-Based Neuroplasticity in Wild and Domesticated Animals. American Veterinary Medical Association, Denver CO, July, 2023.

SAMPLE RECENT PODCASTS: Science Outreach

The Escaped Sapien (March 1, 2019) https://podcasts.apple.com/us/podcast/the-escaped-sapiens-podcast/id1556077156

WIRED: (Nov 1, 2019) https://podcasts.apple.com/us/podcast/the-escaped-sapiens-podcast/id1556077156

NATURE/PBS: (May 20, 2021) This rat can drive a car: https://www.youtube.com/watch?v=yPrQ3Pl-iEM

Nick, Jess, and Ducko, Hit106.9, Newcastle (July 26, 2022); https://www.hit.com.au/story/we-chat-to-the-rat-expert-who-taught-her-rats-to-drive-cars-205347

Heart Mind's 2022 Global Resilience Summit (April, 2022): https://www.globalresiliencesummit.org/

Jill Wenger's Old-Fashioned On Purpose (Sept, 2022): https://www.youtube.com/watch?v=8G3QbKBFO80

Arden Moore's *Four-Legged Life* (Spring, 2023); https://www.youtube.com/watch?v=8G3QbKBFO80

GRANTS FUNDED:

The effect of sex hormones on the activity-stress ulcer paradigm. Funded by the Walter Williams Craigie Teaching Endowment, Randolph-Macon College (1990). Total Cost: $2200.00.

An investigation of susceptibility to ulcerogenesis and maladaptive behavior in the activity-stress paradigm. Funded by the Walter Williams Craigie Teaching Endowment, Randolph-Macon College (1992). Total cost: $2575.00.

An investigation of the effect of fetal alcohol exposure on the development of attentional deficits in rats. Funded by the Walter Williams Craigie Teaching Endowment, Randolph-Macon College (1994). Total cost: $2998.00.

Introduction of Neuroimaging Investigatory Procedures to Undergraduate Neuroscience Instruction (1995). An *Instrumentation and Laboratory Improvement* proposal funded by NSF for a total cost of $99,700.00

An Investigation of the effect of stress on hippocampal neuronal morphology. Funded by the Chenery Research Professorship, Randolph-Macon College (1995-97). Total cost: $15,175.00

An Investigation of the effect of chronic stress on hippocampal glial morphology and density. Funded by the Rashkind Foundation, Randolph-Macon College to support my sabbatical research (1997). Total cost: $5600.00

The effect of the presence of a social partner on prairie voles' response to chronic unpredictable mild stress. Funded by the Walter Williams Craigie Teaching Endowment, Randolph-Macon College (1997). Total cost: $2900.00

An integrative study of neuroscience: From basic research on compulsive-like behavior in rats to the application of relevant research to the field of clinical neuroscience. Funded by the Chenery Research Professorship, Randolph-Macon College (1998-2000). Total cost: $27,840.00

Pregnancy and neuronal and behavioral plasticity in the female. An Academic Research Enhancement Award. Total cost: $75,000. (Co-PI: Dr. Craig Kinsley, University of Richmond).

The effects of reproductive experience on an ecologically relevant, intact animal model of addiction. Funded by the National Institute of Drug Abuse (2000) (Co-PI: Dr. Craig Kinsley, University of Richmond). Total Cost: $20,686.00

Faculty-Student Technology Collaboration Award to become familiar with Solid Model Module software (Microbrightfield, Inc.) so students could construct three-dimensional images of brain areas of

interest (January, 2000). Funded by the Virginia Foundation of Independent Colleges/duPont Faculty Technology Initiative for $3999.00

An Exploration of the Plasticity of the Nervous System: Effects of chronic stress and maternal experience. R-MC Chenery Fellowship awarded for 2001-2003. Total cost: $26,300.00

The Parental Brain: A comparative investigation of rat, mouse, monkey and human neurobiological circuits. R-MC Chenery Fellowship awarded from 2004-2006. Total cost: $32,050.00.

Dynamic Neurobiological Systems: Explorations of stress responsivity and parental experience. R-MC Chenery Fellowship awarded from 2006-2008. Total cost: $30,000.00.

Paternal responsiveness: Neurobiological explorations in two congeneric species. National Science Foundation (RUI) awarded from 2008-2012. Total cost: $640,000.00

Phenotyping Resilience in Rodents: Targeting Key Neurobiological Responses in Depression. National Institute of Mental Health (R15) awarded from 2014-2016. Total cost: $425,170.00

Deconstructing Depressogenic and Emotional Resilience in Rats. National Institute of Mental Health (R15) award for 2019-2021. Total cost: $437,538.00

Exploration of Wild Rat Habitats for Neurobiological Research. University of Richmond (2021). (with Dr. Jonathan Richardson) $9500.00

COLLEGE SERVICE:

Past (Randolph-Macon College):
Wellness Committee (Randolph-Macon College)
College Life Committee (R-MC)
Freshman Advisor (R-MC)
Psi Chi Faculty Advisor (R-MC)
Curriculum Committee (R-MC)
Strategic Planning Committee (R-MC)
Committee on Faculty Development (served as chair, R-MC)
Executive Committee (R-MC)
Undergraduate Research Committee
Faculty Advisor: Women in Science
Strategic Planning Implementation Team for *Peaks of Excellence*
Honorary Degree Committee
Institutional Animal Care and Use Committee (Randolph-Macon College)

Co-Director, Office of Undergraduate Research
Chair, Psychology Department
Director, Behavioral Neuroscience Major

Past (University of Richmond)
Chair, Undergraduate Research Committee, University of Richmond

Current (University of Richmond):
Co-Coordinator, Neuroscience Program, University of Richmond
Chair, Planning, Budget, and Priorities Committee

PROFESSIONAL ORGANIZATIONS (past and present):

Association for Psychological Science
Southern Society for Philosophy and Psychology
Psi Chi
International Behavioral Neuroscience Society
Council on Undergraduate Research
Society for Neuroscience
Society for Behavioral Neuroendocrinology
Faculty for Undergraduate Neuroscience (FUN)

PROFESSIONAL SERVICE:

Served as Reviewer for National Institutes of Health's Physiology, Behavior, and Neuroscience Division, October, 1995

Served as reviewer for National Science Foundation's Instrumentation and Laboratory Improvement section, January, 1996.

Served as Reviewer for National Institutes of Health's Neuroendocrinology, Neuroimmunology, and Behavior section, November, 2004 (one session).

Served on advisory board for the University of South Carolina's Peromyscus Stock Center (2002-2005).

Served as US Councilor for International Behavioral Neuroscience Society.

Served on the 2007 Program Committee for the International Behavioral Neuroscience Society.

Served as consultant to evaluate the Psychology Department at Dickinson College, February, 2006.

Invited reviewer for journals such as: *Psychobiology; Physiology & Behavior; Journal of Applied Social Psychology; Genes, Brain, and Behavior; The American Journal of Comparative Physiology; The Quarterly Journal of Experimental Psychology; Stress; Brain Research Bulletin; Hormones and Behavior; Neuroscience; Frontiers in Behavioral Neuroscience; Animal Behavior.*

Served on the Science Advisory Panel of the Science Museum of Virginia *(2011- 2014* and 2018-2020*).*

Served as an external reviewer for psychology and neuroscience programs at Ursinus College (Collegeville PA; February 2015); NOVA Southeastern University (Ft. Lauderdale FL; November, 2015), and Furman University (Oct 2019).

Served as NIH Study Section Reviewer： ZRG1 MDCN-R (86) Academic Research Enhancement Award (AREA); (February, 2018; June 2018; Oct 2018; March 2019; October 2019, March 2020, June 2020; February 2021).

Serving on the Scientific Advisory Board, DuMond Conservancy for Primates and Tropical Plants at Monkey Jungle (Miami, FL); 2015-current

COURSES TAUGHT:

-Behavioral Neuroscience
-Clinical Neuroscience
-Psychobiology Research and Theoretical Systems
-Comparative Animal Behavior
-Research Methods
-Introduction to Psychology
-Senior Research Seminar
-Psychology of Learning
-Life's Simple Pleasures: Biopsychology of Hunger, Thirst, and Sexual Motivation (Honor's course)
-Systems and Contemporary Theories in Psychology (R-MC "history/capstone" course)
-Senior Project
-The Broken Brain: Explorations of Clinical Neuroscience (Honor's course)
-Psychoneuroimmunology (a team-taught graduate course with Medical College of Virginia and University of Richmond)
-Topics in Psychology: Advanced Neuroscience
-The Stress of Life: Neurobiological Perspectives (first-year experience course)
-The Neurobiology of Humor (first-year experience course)
-Success Strategies for Psychology Majors
-Enterprisers and Opportunists: Lessons from business moguls, resilient rodents, and other geniuses (first-year experience course)

-Behavioral Neuroscience Seminar
-Behavioral Neuroscience Techniques
-Neuroplasticity Seminar
-Methods and Analysis Core Project
-Mapping Animal Minds