

Karen Lisa Bales

Department of Psychology and California National Primate Research Center
University of California, Davis
One Shields Ave.
Davis, CA 95616
Ph: (530) 754-5890
Fax: (530) 752-2087
Email: klbales@ucdavis.edu

Academic Positions:

Professor, University of California, Davis, July 2012-present.

Vice-Chair, Psychology Department, University of California, Davis, July 2012- July 2015.

Associate Professor, University of California, Davis, July 2008- June 2012.

Unit Leader, Brain, Mind and Behavior Unit, California National Primate Research Center, Sept 2009- July 2015.

Core Scientist, California National Primate Research Center, August 2008- present.

Assistant Professor, University of California, Davis, July 2004- June 2008.

Visiting Research Assistant Professor, University of Illinois at Chicago, 2003-2004.

Education and Training:

Post-doctoral Fellow, University of Illinois, Chicago, and University of Maryland, College Park, 2000 - 2003. Advisor: C. Sue Carter. Title: Developmental Consequences of Oxytocin in Male Prairie Voles.

Ph.D. in Biology, University of Maryland, 2000. Advisor: James M. Dietz. Dissertation title: Mammalian Monogamy: Dominance, Hormones, and Maternal Care in Wild Golden Lion Tamarins.

M.A. in Anthropology, University of Tennessee, 1995. Advisor: Suzette D. Tardif. Thesis title: Parental Investment in the Common Marmoset (*Callithrix jacchus*): Demography and Behavior.

B.A. in Anthropology, Minor in Biology, Magna cum laude, University Honors and Honors in Anthropology, University of New Orleans, 1993. Advisor: Malcolm C. Webb. Senior Honors Thesis: Behavior in Captive Diana Monkeys.

Fellowships and Grants Received:

2015-2020 National Institute of Mental Health grant (R01). Multi-PI grant (PIs Shah and Bales). "Molecular and neural networks underlying social attachment." \$3,690,215.

- 2015-2020 National Institute of Child Health and Human Development (R01). Co-investigator, PI Leah Krubitzer. "How does early sensory experience affect cortical connections and behavior?"
- 2015-2017 National Institute of Mental Health grant (R21). "Characterization of oxytocin receptors in autism spectrum disorder". \$417,089.
- 2014-2017 National Institute of Child Health and Human Development competitive supplement to "Effects of chronic intranasal oxytocin". \$1,864,207.
- 2012-2017 National Institute of Child Health and Human Development grant (R01). "Effects of chronic intranasal oxytocin". \$2,702,760.
- 2009-2014 National Institute of Child Health and Human Development grant (R01). "Neurobiological mechanisms of social bonding in a monogamous primate". \$2,178,158.
- 2006 – present Grant from Good Nature Institute. "Neurobiology of social behavior in titi monkeys." \$178,000.
- 2009 – 2012 National Institute of Child Health and Human Development grant (R21). "Effects of early experience on somatosensory systems in voles" \$409,754.
- 2009 – 2010 National Science Foundation Doctoral Dissertation Research, "The role of deltaFosB in social behaviors of the monogamous prairie vole (*Microtus ochrogaster*)." \$7,751.
- 2008 – 2011 National Science Foundation, "EMT Collaborative Research: Primate-based Heterogenous Mobile and Static Sensor Networks". PI for UC-Davis portion. \$119,958.
- 2007—2011 National Institute for Drug Abuse, "Methamphetamine, stress and SIV: effects at blood-brain barrier and lymph nodes", PI John Capitanio. \$2,760,750 (Total direct costs)
- 2005 – 2010 National Institutes of Health (National Institute of Mental Health) grant (R01). "Effects of Early Experience." Co-PI with C. Sue Carter years 1-3, PI for years 4-5. Total costs approximately \$2,000,000.
- 2004 – 2007 National Science Foundation ADVANCE grant, "Effects of Early Experience on Male Parental Care". \$453,690 (total costs).
- 2004-2005 Pilot grant, California National Primate Research Center, "Functional Imaging of Social Bonding in Titi Monkeys". \$20,000.
- 2005 Faculty Travel Grant, UC-Davis.
- 2004 International Neuropeptide Society Young Investigator Award
- 2002 Burroughs-Wellcome/American Society of Primatologists Young Investigator Award. \$10,000.
- 2002-2004 Co-PI (with C. Sue Carter), grant from National Alliance for Autism Research. \$120,000.

2000-2003 NIH post-doctoral NRSA fellowship, "Developmental Consequences of Oxytocin in Male Prairie Voles".

1999 Biology of Small Populations Research Grant (2nd award)
Jacob K. Goldhaber Travel Grant
College of Life Sciences Travel Grant

1998 Biology of Small Populations Research Grant

1997 Grant from Friends of the National Zoo, jointly with K. Miller

1996 Sigma Xi Grant in Aid of Research

1995 National Science Foundation Predoctoral Fellowship

1995 University of Maryland Graduate Fellowship
New York Consortium of Evolutionary Primatology Graduate Fellowship
(declined)

1989 BellSouth National Merit Scholarship
Fred Roddy Scholarship to the University of Tennessee (declined)
Patrick Taylor National Merit Scholarship

Additional Honors:

2015-16 Organizing Committee, 2016 German-American Kavli Frontiers of Science Conference

2014 UC-Davis ADVANCE Scholar

2013 Division of Social Sciences Dean's Innovation Award

2012 Organizing Committee, 2013 Kavli Frontiers of Science Conference

2012 Kavli Fellow

2008 Ann Kelley Memorial Travel Fellow to the Winter Conference on Brain Research

1999 Honorable Mention in Student Paper Presentation Competition, American Society of Primatologists Annual Meeting, New Orleans

1993 Distinguished Student in Anthropology, University of New Orleans

1993 Magna cum laude, University Honors and Honors in Anthropology

1989 National Merit Scholar

Research Articles in Peer-Reviewed Journals (AJP articles are in yellow):

Simmons TC, Balland JF, Dhauna J, Yang SY, Traina JL, Vazquez J, Bales KL. (2017) Early Intranasal Vasopressin Administration Impairs Partner Preference in Adult Male Prairie Voles (*Microtus ochrogaster*). *Frontiers in Endocrinology* 8:145.

Larke RH, Toubiana A, Lindsay KA, Mendoza SP, Bales KL. (2017) Infant titi monkey behavior in the open field test and the effect of early adversity. *American Journal of Primatology* 79(9).

Maninger, N., Hinde, K., Mendoza, S.P., Mason, W.A., Larke, R.H., Ragen, B.J., Jarcho, M.R., Cherry, S.R., Rowland, D.J., Ferrer, E., Bales, K.L. (2017) Pair bond formation leads to a sustained increase in global cerebral glucose metabolism in monogamous male titi monkeys (*Callicebus cupreus*). *Neuroscience* 348: 302-312. NIHMS: 855416

Bales, K.L. (2017) Parenting in Animals. *Current Opinion in Psychology* 15:93-98. NIHMSID: 856537.

Duchemin, A., Seelke, A.M., Simmons, T.C., Freeman, S.M., Bales, K.L. (2017) Localization of oxytocin receptors in the prairie vole (*Microtus ochrogaster*) neocortex. *Neuroscience* 348: 201-211. PMID: PMC5368034.

Freeman SM, Smith AL, Goodman MM, Bales KL. (2017) Selective localization of oxytocin receptors and vasopressin 1a receptors in the human brainstem. *Social Neuroscience* 12:113-123.

Hostetler, C.M., Hinde, K., Maninger, N., Mendoza, S.P., Mason, W.A., Rowland, D.J., Wang, G.B., Kukis, D., Cherry, S.R., Bales, K.L. (2017) Effects of pair bonding on dopamine D1 receptors in monogamous male titi monkeys (*Callicebus cupreus*). *American Journal of Primatology* 79: 1-9.

Perkeybile AM, Bales KL. (2017) Intergenerational transmission of sociality: the role of parents in shaping social behavior in monogamous and non-monogamous species. *Journal of Experimental Biology* 220:114-123.

Hinde, K., Muth, C., Maninger, N., Ragen, B.J., Larke, R.H., Jarcho, M.R., Mendoza, S.P., Mason, W.A., Ferrer, E., Cherry, S.R., Fisher-Phelps, M.L., Bales, K.L. (2016) Challenges to the pair bond: neural and hormonal effects of separation and reunion in a monogamous primate. *Frontiers in Behavioral Neuroscience* 10:221.

Seelke, A.M.H., Yuan, S.-M., Perkeybile, A.M., Krubitzer, L.A., Bales, K.L. (2016) Early experiences can alter the size of cortical fields in prairie voles (*Microtus ochrogaster*). *Environmental Epigenetics* 2:3.

Arias del Razo, R., Bales, K.L. (2016) Exploration in a dispersal task: Effects of early experience and correlation with other behaviors in prairie voles (*Microtus ochrogaster*). *Behavioural Processes* 132: 66-75.

Larke, R.H., Maninger, N., Ragen, B.J., Mendoza, S.P., Bales, K.L. (2016) Serotonin 1A agonism decreases affiliative behavior in pair-bonded titi monkeys. *Hormones and Behavior* 86: 71-77.

Corbett, B.A., Bales, K.L., Swain, D., Sanders, K., Weinstein, T.A., Muglia, L.J. (2016) Comparing oxytocin and cortisol regulation in a double-blind, placebo-controlled, hydrocortisone challenge pilot study in children with autism and typical development. *Journal of Neurodevelopmental Disorders* 8:32.

Duque-Wilckens, N., Steinman, M.Q., Laredo, S.A., Hao, R., Perkeybile, A.M., Bales, K.L., Trainor, B.C. (2016) Inhibition of vasopressin V1a receptors in the medioventral bed nucleus of the stria terminalis has sex- and context-specific anxiogenic effects. *Neuropharmacology* 110: 59-68.

Smith, A.L., Freeman, S.M., Barnhart, T.E., Abbott, D.H., Ahlers, E.O., Kukis, D.L., Bales, K.L., Goodman, M.M., Young L.J. (2016) Initial investigation of three selective and potent small molecule oxytocin receptor PET ligands in New World monkeys. *Bioorganic & Medicinal Chemistry Letters* 26: 3370-3375.

Freeman, S.M., Smith, A.M., Goodman, M.M., Bales, K.L. (2016) Selective localization of oxytocin receptors and vasopressin 1a receptors in human brainstem. *Social Neuroscience* 10:1-11.

Freeman, S.M., Samineni, S., Allen, P.C., Stockinger, D., Bales, K.L., Granger, G.C.H., Roberts, J.A. (2016) Plasma and CSF oxytocin levels after intranasal and intravenous oxytocin in awake macaques. *Psychoneuroendocrinology* 66:185-194.

Blevins, J.E., Thompson, B.W., Anekonda, V.T., Ho, J.M., Graham, J.L., Roberts, Z.S., Hwang, B.H., Ogimoto, K., Wolden-Hanson, T., Nelson, J., Kaiyala, K.J., Havel, P.J., Bales, K.L., Morton, G.J., Schwartz, M.W., Baskin, D.G. (2016) Chronic CNS oxytocin signaling preferentially induces fat loss in high fat diet-fed rats by enhancing satiety responses and increasing lipid utilization. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology* 310:R640-658.

Steinman, M.Q., Duque-Wilckens, N., Greenberg, G.D., Hao, R., Campi, K.L., Laredo, S.A., Laman-Maharg, A., Manning, C.E., Doig, I.E., Lopez, E.M., Walch, K., Bales, K.L., Trainor, B.C. (2016) Effects of social defeat on oxytocin systems and impact of intranasal oxytocin are sex-dependent in California mice. *Biological Psychiatry* 80:406-414.

Fisher-Phelps, M.L., Mendoza, S.P., Serna, S., Griffin, L.L., Schaefer, T.J., Jarcho, M.R., Ragen, B.J., Goetze, L.R., Bales, K.L. (2016) Laboratory simulations of mate-guarding as a component of the pair-bond in male titi monkeys, *Callicebus cupreus*. *American Journal of Primatology* 78:573-582.

Díaz-Muñoz, S.L., Bales, K.L. (2016) "Monogamy" in primates: Variability, trends, and synthesis. Introduction to special issue on primate monogamy. *American Journal of Primatology* 78: 283-287.

Carp, S.B., Rothwell, E.S., Bourdon, A., Freeman, S.M., Ferrer, E., Bales, K.L. (2016) Development of a partner preference test that differentiates between established pair bonds and other relationships in socially monogamous titi monkeys (*Callicebus cupreus*). *American Journal of Primatology* 78:326-339.

Bales, K.L., Saltzman, W. (2016) Fathering in rodents: Neurobiological substrates and consequences for offspring. *Hormones and Behavior* 77:249-259.

- Seelke, A.M., Perkeybile, A.M., Grunewald, R., Bales, K.L., Krubitzer, L.A. (2016) Individual differences in cortical connections of somatosensory cortex are associated with parental rearing style in prairie voles (*Microtus ochrogaster*). *Journal of Comparative Neurology* 524:563-577.
- Perkeybile, A.M., Delaney-Busch, N., Hartman, S.L., Grimm, K.J., Bales, K.L. (2015) Intergenerational transmission of alloparental behavior and oxytocin and vasopressin receptor distribution in the prairie vole. *Frontiers in Behavioral Neuroscience* 9:191.
- Kinsley, C.H., Bales, K., Bardi, M., Stolzenberg, D. (2015) Reproductive experiential regulation of cognitive and emotional resilience. *Neuroscience and Biobehavioral Reviews* 58:92-106.
- Muth, C., Bales, K.L., Hinde, K., Maninger, N., Mendoza, S.P., Ferrer, E. (2015) Alternative models for small samples in psychological research: applying linear mixed effects models and generalized estimating equations to repeated measures data. *Educational and Psychological Measurement* 76:64-87.
- Perkeybile, A.M., Bales, K.L. (2015) Early rearing experience is associated with vasopressin immunoreactivity to an acute non-social stressor in the prairie vole. *Physiology & Behavior* 147: 149-156.
- Ragen, B.J., Freeman, S.M., Laredo, S.A., Mendoza, S.P., Bales, K.L. (2015) μ and κ opioid receptor distribution in the monogamous titi monkey (*Callicebus cupreus*): implications for social behavior and endocrine functioning. *Neuroscience* 290: 421-434.
- Perkeybile, A.M., Bales, K.L. (2015) Early rearing experience is related to altered aggression and vasopressin production following chronic social isolation in the prairie vole. *Behavioural Brain Research* 283: 37-46.
- Blevins, J.E., Graham, J.L., Morton, G.J., Bales, K.L., Schwartz, M.W., Baskin, D.G., Havel, P.J. (2015) Chronic oxytocin administration inhibits food intake, increases energy expenditure, and produces weight loss in fructose-fed obese rhesus monkeys. *American Journal of Physiology. Regulatory, Integrative and Comparative Physiology* 308: R431-R438.
- Ragen, B.J., Maninger, N., Mendoza, S.P., Bales, K.L. (2015) The effects of morphine, naloxone, and κ opioid manipulation on endocrine functioning and social behavior in monogamous titi monkeys (*Callicebus cupreus*). *Neuroscience* 287: 32-42.
- Bales, K.L., Solomon, M., Jacob, S., Crawley, J.N., Silverman, J.L., Larke, R.H., Sahagun, E., Puhger, K.R., Pride, M.C., Mendoza, S.P. (2014) Long-term exposure to intranasal oxytocin in a mouse autism model. *Translational Psychiatry* 4:e480.
- Weinstein, T.A., Bales, K.L., Maninger, N., Hostetler, C.M., Capitanio, J.P. (2014) Early involvement in friendships predicts later plasma concentrations of oxytocin and vasopressin in juvenile rhesus macaques (*Macaca mulatta*). *Frontiers in Behavioral Neuroscience* 8:295.

Mendoza, A., Ng, J., Bales, K.L., Mendoza, S.P., George, D.A., Smith, D.G., Kanthaswamy, S. (2014) Population genetics of the California National Primate Research Center's (CNPRC) captive *Callicebus cupreus* colony. *Primates* 56: 37-44.

Freeman, S.M., Walum, H., Inoue, K., Smith, A.L., Goodman, M.M., Bales, K.L.*, Young, L.J.* (2014) Neuroanatomical distribution of oxytocin and vasopressin 1a receptors in the socially monogamous coppery titi monkey (*Callicebus cupreus*). *Neuroscience* 273: 12-23.

* denotes co-last authors

Phillips, K.A., Bales, K.L., Capitanio, J.P., Conley, A., Czoty, P.W., t'Hart, B.A., Hopkins, W.D., Hu, S.-L., Miller, L.A., Nader, M.A., Nathanielsz, P.W., Rogers, J., Shively, C.A., Voytko, M.L. (2014) Why primate models matter. *American Journal of Primatology* 76:801-827.

Schradin, C., Larke, R.H., Bales, K.L. (2014) Growing up in the family or growing up alone influences behavior and hormones, but not arginine vasopressin receptor 1a expression in male African striped mice. *Physiology & Behavior*, 129: 205-213. PMID: 24631307

Millan, M.J., Bales, K.L. (2013) Towards improved animal models for evaluating social cognition and its disruption in schizophrenia: the CNTRICS initiative. *Neuroscience and Biobehavioral Reviews*, 37: 2166-2180. PMID: 24090822

Ragen, B.J., Maninger, N., Mendoza, S.P., Jarcho, M.R., Bales, K.L. (2013) Presence of a pair-mate regulates the behavioral and physiological effects of opioid manipulation in the monogamous titi monkey (*Callicebus cupreus*). *Psychoneuroendocrinology* 48: 2448-2661. PMID:3812423

Miller, M., Bales, K.L., Taylor, S.L., Yoon, J., Hostetler, C.M., Carter, C.S., Solomon, M. (2013) Oxytocin and vasopressin in children and adolescents with autism spectrum disorders: sex differences and associations with symptoms. *Autism Research* 6:91-102. PMID:3657571

Yu, G., Yagi, S., Carrion, R. Jr, Chen, E.C., Liu, M., Brasky, K.M., Lanford, R.E., Kelly, K.R., Bales, K.L., Schnurr, D.P., Canfield, D.R., Patterson, J.L., Chiu, C.Y. (2013) Experimental cross-species infection of common marmosets by titi monkey adenovirus. *PLoS One*. 8(7):e68558. PMID:3722195

Perkeybile, A.M., Griffin, L.L., Bales, K.L. (2013) Natural variation in early parental care correlates with social behaviors in adolescent prairie voles (*Microtus ochrogaster*). *Frontiers in Behavioral Neuroscience* 7:21. PMID: 3600544

Bales, K.L., Perkeybile, A.M., Conley, O.G., Lee, M.H., Guoynes, C.D., Downing, G.M., Yun, C.R., Solomon, M., Jacob, S., Bales, K.L. (2013) Chronic intranasal oxytocin causes long-term impairments in partner preference formation in male prairie voles. *Biological Psychiatry* 74: 180-188. PMID: 3556198

Ragen, B.R., Mendoza, S.P., Mason, W.A., Bales, K.L. (2012) Differences in titi monkey (*Callicebus cupreus*) social bonds affect arousal, affiliation, and response to reward. *American Journal of Primatology* 74: 758-769.

- Greenberg, G., Van Westerhuyzen, J.A., Bales, K.L., Trainor, B.C. (2012) Is it all in the family? The effects of early social structure on neural-behavioral systems of prairie voles (*Microtus ochrogaster*). *Neuroscience* 216:46-56. PMID: 3397474
- Manoli, D.S., Subramanyam, D., Carey, C., Sudin, E., Van Westerhuyzen, J.A., Bales, K.L., Belloch, R., Shah, N.M. (2012) Generation of induced pluripotent stem cells from the prairie vole. *PLoS One* 7:e38119. PMID: 3365000
- Hostetler, C.M., Bales, K.L. (2012) DeltaFosB is increased in the nucleus accumbens by amphetamine but not social housing or isolation in the prairie vole. *Neuroscience* 210:266-274.
- Kenkel, W.M., Paredes, J., Yee, J.R., Pournajafi-Nazarloo, H., Bales, K.L., Carter, C.S. (2012) Neuroendocrine and behavioural responses to exposure to an infant in male prairie voles. *Journal of Neuroendocrinology*. 24:874-886.
- Jarcho, M.R., Mendoza, S.P., Bales, K.L. (2012) Hormonal and experiential predictors of infant survivorship and maternal behavior in a monogamous primate (*Callicebus cupreus*). *American Journal of Primatology* 74:462-470.
- Bales, K.L., Perkeybile, A.M. (2012) Developmental experiences and the oxytocin receptor system. *Hormones and Behavior* 61:313-319.
- Hostetler, C.M., Harkey, S.L., Krzywosinski, T.P., Aragona, B.J., Bales, K.L. (2011) Neonatal exposure to the D1 agonist SKF38393 inhibits pair-bonding in the adult prairie vole. *Behavioural Pharmacology* 22: 703-710. PMID: 3174420
- Hostetler, C.M., Kowalczyk, A.S., Griffin, L.L., Bales, K.L. (2011) CART peptide following social novelty in the prairie vole (*Microtus ochrogaster*). *Brain Research* 1414:32-40. PMID: 3176997
- Chen, E.C., Yagi, S., Kelly, K.R., Mendoza, S.P., Maninger, N., Rosenthal, A., Spinner, A., Bales, K.L., Schnurr, D.P., Lerche, N.W, Chiu, C.Y. (2011) Cross-species transmission of a novel adenovirus associated with a fulminant pneumonia outbreak in a titi monkey colony. *PLoS Pathogens* 7: e1002155. PMID: 3136464
- Bales, K.L., Boone, E., Epperson, P., Hoffman, G., Carter, C.S. (2011) Are behavioral effects of early experience mediated by oxytocin? *Frontiers in Child and Neurodevelopmental Psychiatry* 2: 1-12. PMID: 3098714. This article was also included as part of the e-book *Translational research models and methods for mother-infant interactions and developmental studies*, edited by J. Johns, R. Eiden, E.M. Byrnes, S. Moy, J.I. Morrell, L. Mayes, and K. Grewen, 2012, p. 17-28.
- Jarcho, M.R., Mendoza, S.P., Mason, W.A., Yang, X., and Bales, K.L. (2011) Intranasal vasopressin affects pair-bonding and peripheral gene expression in male *Callicebus cupreus*. *Genes, Brain, and Behavior* 10: 375-383. PMID: 3086990
- Laugero, K.D., Smilowitz, J.T., German, J.B., Jarcho, M.R., Mendoza, S.P., and Bales, K.L. (2011) Plasma omega 3 polyunsaturated fatty acid status and monounsaturated fatty acids are altered by chronic social stress and predict endocrine responses to acute stress in titi monkeys. *Prostaglandins, Leukotrienes, and Essential Fatty Acids* 84:71-78. PMID: 21211954

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- Hostetler, C.M., Harkey, S.L., and Bales, K.L. (2010) D2 antagonist during development decreases anxiety and infanticidal behavior in adult female prairie voles (*Microtus ochrogaster*). *Behavioral Brain Research* 210: 127-130. PMID: 20152865
- Stone, A.I., Mathieu, D., Griffin, L.L., Bales, K.L. (2010) Alloparenting experience affects future parental behavior and reproductive success in prairie voles. *Behavioural Processes* 83: 8-15. PMID: 19732810
- Campi, K.L., Bales, K.L., Grunewald, R., Krubitzer, L.A. (2010) Connections of auditory and visual cortex in the prairie vole (*Microtus ochrogaster*): Evidence for multisensory processing in primary sensory areas. *Cerebral Cortex*. 20: 89-108. PMID: 19395525
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- Zhang, Y., Xiao, Y., Bales, K.L. (2009) Primate social systems, scent-marking, and their applications in mobile and static sensor networks. *International Journal of Sensor Networks* 5: 210-222.
- Carter, C.S., Boone, E.M., Pournajafi-Nazarloo, H., Bales, K.L. (2009) The consequences of early experiences and exposure to oxytocin and vasopressin are sexually dimorphic. *Developmental Neuroscience* 31: 332-341. PMID: 19546570
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- Bales, K.L., van Westerhuyzen, J.A., Lewis-Reese, A.D., Grotte, N., Lanter, J.A., Carter, C.S. (2007) Oxytocin has dose-dependent developmental effects on pair-bonding and alloparental care in female prairie voles. *Hormones and Behavior* 52: 274-279. PMID: 1978481
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Campi, K., Carlen, S.J., Bales, K.L., and Krubitzer, L. (2007) The Organization of Sensory Neocortex in Prairie Voles (*Microtus ochrogaster*). *Journal of Comparative Neurology* 502: 414-426.

Bales, K.L., Plotsky, P.M., Young, L.J., Lim, M.M., Grotte, N., Ferrer, E., and Carter, C.S. (2007) Neonatal Oxytocin Manipulations Have Long-lasting, Sexually Dimorphic Effects on Vasopressin Receptors. *Neuroscience* 144: 38-45.

Miller, K., Bales, K.L., Ramos, J., and Dietz, J.M. (2006) Energy Intake, Energy Expenditure, and Reproductive Costs of Female Wild Golden Lion Tamarins (*Leontopithecus rosalia*). *American Journal of Primatology* 68: 1037-1053.

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Bales, K.L., Kramer, K.M., Lewis-Reese, A.D., and Carter, C.S. (2006) Effects of Stress on Parental Care are Sexually Dimorphic in Prairie Voles. *Physiology & Behavior* 87: 424-429.

Bales, K.L., French, J.A., McWilliams, J., Lake, R.A., Dietz, J.M. (2006) Effects of Social Status, Age, and Season on Androgen and Cortisol Levels in Wild Male Golden Lion Tamarins (*Leontopithecus rosalia*). *Hormones and Behavior* 49:88-95.

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Beetz, A., Bales, K. (2016) Affiliation in human-animal interaction. In: *The Social Neuroscience of Human-Animal Interaction*, eds. L.S. Freund, S. McCune, L. Esposito, N.R. Gee, P. McCardle, American Psychological Association, pp. 107-125.

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Ragen, B., Bales, K.L. (2013) Oxytocin and vasopressin in non-human primates. In: *Oxytocin, Vasopressin and Related Peptides in the Regulation of Behavior.*, eds. E. Choleris and M. Kavaliers, Cambridge University Press, pp. 288-306.

Bales, K.L., Jarcho, M.R. (2012) Fathering in non-human primates. In: *Handbook of Father Involvement: Multidisciplinary Perspectives*, eds. N. Cabrera, C.S. Tamis-LeMonda, Taylor and Francis, Inc., pp. 37-53.

Bales, K.L., Maninger, N., Hinde, K. (2012) New directions in the neurobiology and physiology of paternal care. In: *New Directions in Close Relationships*, eds. O. Gillath, G. Adams, A. Kunkel, American Psychological Association, pp. 91-111.

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Reviews, Commentaries and Encyclopedia Entries:

Bales, K.L. (in press) Pair-bonding in other mammals. In: *Encyclopedia of Evolutionary Psychological Science*, eds. T.K. Shackelford and V.A. Weekes-Shackelford, Springer International Publishing.

Bales, K.L. (in press) Oxytocin and vasopressin. In: *The International Encyclopedia of Primatology*, ed. A. Fuentes, John Wiley & Sons.

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Bales, K.L. (2010) Family Life on the Prairie. *Frontiers in Neuroscience* 4: 169.

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Bales, K.L. (2003) Book Review: Pheromones and Animal Behaviour by Tristram D. Wyatt. International Journal of Primatology 24:1367-1369.

Popular Media Exposure:

Brink, S. (2013) "Oxytocin: The "Love Hormone" Might Also Help in Autism. A new study suggests oxytocin could benefit autistic kids. But is it ready for prime time?" National Geographic News, Dec 13, 2013.

Belluck, P. (2013) "Oxytocin and social behavior: Could stimulate social behavior in autistic children." The New York Times, Dec 3, 2013.

De Weert, S. (2013) "Over Time, Oxytocin Puts Prairie Voles at a Disadvantage". SFARI.org, Nov. 12, 2013.

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Stix, G. (2012) "When the Cuddle Hormone is a Home-Wrecker". Scientific American, October 16, 2012.

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Peyton Dahlberg, S. (2007) "At UC-Davis, Monkey Dads are Nurturers". Sacramento Bee, Jan. 23, 2007.

Kuchinskas, S. (2005) "The Commitment Chemical". American Way, Nov. 1, 2005, pgs. 36-38.

Madsen, A.J. (2005) "Forelskelse er Psykose; Koerlighed er fornuft". Illusteret Videnskab, 3:24-31 (photo credit).

Wax, H. (2004) "Caring for Children is its Own Reward". Science and Theology News, http://www.stnews.org/archives/2004_february/altr_caring_0204.html

Jacobson, L. (1999) "For Tamarins, It Takes a Village". The Washington Post, p. A11, Oct. 11.

Classes Taught:

Biol 106, Freshman Biology, University of Maryland Fall 2000

Psyc 121, Physiological Psychology, University of California, Davis Every Fall 2004-2012, plus Spring 2008

Psyc 123, Hormones and Behavior, University of California, Davis Every Spring 2005-2011, 2014

Psyc 290, Neurobiology of Addiction, Fall 2008

Psyc 208, Graduate Physiological Psychology, Spring 2012

Psyc 200, Proseminar in Psychology, Fall 2012, 2013

Professional Memberships:

Society for Behavioral Neuroendocrinology

Society for Neuroscience

American Society of Primatologists

International Primatological Society

Sigma Xi, University of Maryland Chapter

New York Academy of Sciences

Animal Behavior Society

International Society for Developmental Psychobiology

Professional Service:

2015 – present Founding editorial board, Environmental Epigenetics
Editorial board, Hormones and Behavior

2014-2016 Past President, American Society of Primatologists
Program Chair, American Society of Primatologists

2012-2014 President, American Society of Primatologists

2012 External reviewer, Interdisciplinary Studies Field Major, UC-Berkeley

2011-present Member, Biobehavioral Regulation, Learning, and Ethology NIH study section

2011 Animal Behavior Doctoral Dissertation Improvement grant review panel, Spring 2011

2010 President-elect, American Society of Primatologists (to take office 2012)

2010 Member, National Institutes of Health study section on Human-Animal Interaction

2008-2011 Animal Behavior review panel, National Science Foundation (Spring 2008, Spring 2009, Spring 2010, Spring 2011)

2008 -present Associate editor, American Journal of Primatology

2006-2010 Treasurer, American Society of Primatologists

2006 Reviewer for grant proposals, Leakey Foundation

2005, 2012 Reviewer for grant proposals, Israel Science Foundation

2004 – 2006 Co-Chair of Research and Development committee, American Society of

Primatologists

- 2003 – 2004 Chair of Small Animal Subcommittee, Animal Care and Use Committee, University of Illinois at Chicago
- 2003 – 2011 Member, Editorial Board, International Journal of Primatology
- 2002 Chair of Teaching Subcommittee, Animal Care and Use Committee, University of Illinois at Chicago
- 2001- 2004 Member of research and development committee, American Society of Primatologists
- 2001 - present Reviewed submissions to Hormones and Behavior, American Journal of Physical Anthropology, Behavioral Ecology, Behavioral Ecology and Sociobiology, Zoo Biology, American Journal of Primatology, Biology of Reproduction, International Journal of Primatology, Proceedings of the Royal Zoological Society of London, Regulatory Peptides, Ethology, Peptides, Alcoholism: Clinical and Experimental Research, Animal Behaviour, Biological Psychiatry, Developmental Science, General and Comparative Endocrinology, International Journal of Environmental Research and Public Health, Journal of Experimental Zoology Part A: Ecological Genetics and Physiology, Neuroscience, Physiology & Behavior, Progress in Neuro-Psychopharmacology & Biological Psychiatry, Psychoneuroendocrinology
- 2000 - present Reviewer for grant proposals for NSF, Physical Anthropology and Animal Behavior
- 1999 – 2000 Graduate student representative to the Life Sciences Advisory Committee
Graduate student member, search committee for position in neuroscience
- 1998 – 1999 Tutoring, Biometrics

Invited Presentations have been given at the following institutions:

- Center for Neurobehavioral Development, University of Minnesota, Feb 2017.
- University of Munster. Munster, Germany, March 2016.
- Evolution of Social Behavior conference (organized by the Company of Biologists). Murren, Switzerland, March 2016.
- Santa Clara Regional Medical Center, San Jose, CA, November 2015.
- NICHHD workshop on “Operationalizing Socioeconomic Status: What are the Active Ingredients and How we Translate between Human and Animal Models”. Rockville, MD, May 2015.
- Pennsylvania State University, State Park, PA, April 2015.
- NICHHD workshop on “Oxytocin in Intellectual and Developmental Disabilities: Research Gaps and Opportunities”. Rockville, MD, April 2015.
- ADVANCE award talk. “Oxytocin–Social Bonding, Autism, and Women’s Health”. University of California, Davis, Feb 2015.
- NIA Symposium at the American Society of Primatologists Annual meeting, Decatur, GA, Sept 2014.
- Collaborative Biomedical Research Conference on the Vole Animal Model, Portland, OR, July 2014.
- International Behavioral Neuroscience Society, invited symposium talk, Las Vegas, NV, June 2014.
- Stanford Neuroscience Graduate Student Retreat, May 2014.
- Schizophrenia International Research Society Conference, Florence Italy, April 2014.

Department of Neuroscience, Oregon Health and Sciences University, Feb 2014.
Kavli Frontiers of Science Conference, Irvine, CA, Nov 2013.
NICHD workshop on "Paternal Involvement in Pregnancy: Outcomes from Birth to the First Year of Life", Potomac, MD, Sept. 2013.
Department of Psychology, University of Michigan, Ann Arbor (Nov 6, 2012).
Interdisciplinary Center, Herzliya, Fifth Herzliya Symposium on Personality and Social Psychology, April 2-5, 2012, Herzliya, Israel
Department of Psychology, UC-Merced, January 2012.
Neuroscience Program, University of Texas Health Sciences, San Antonio, October 2011.
International Academy of Sex Research Annual Meeting, Aug.10-13, 2011, Los Angeles, CA.
Simons Foundation, April 12, 2011. New York, New York.
Conference on Neuroscience of Parenting, Feb. 23-24, 2010, Tempe, Arizona.
UCLA Center for Behavior, Evolution, and Culture, Los Angeles, CA, Feb. 8, 2010.
Cognitive and Biopsychology Brown-bag, University of Nebraska, Lincoln, Feb. 1, 2010.
New Directions in Close Relationships: Integrating Across Disciplines and Theoretical Approaches, a meeting of the International Association for Relationship Research. November 5 -7, 2009. Lawrence, Kansas.
Mini-symposium on Socioecological Foundations of Intimacy. November 4, 2009, Lawrence, Kansas.
University of California, Riverside (April 2007)
Workshop on Steroid Hormones, Breckenridge, CO (April 2007)
Annenberg Public Policy Center, Univ. of Pennsylvania (June 2005)
Institute for Personality and Social Research, Berkeley (Sept. 2004)
University of Chicago Institute for Mind and Biology (2001 and 2003)
National Zoo (twice)
University of Pennsylvania
National Institutes of Health
Several elementary/secondary schools in the U.S. and Brasil
Invited speaker, 2004 Annual Meeting of the American Society of Primatologists