

## **Karen Lisa Bales**

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### **Academic Positions:**

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

Editor-in-Chief, *American Journal of Primatology*, Jan 2018-present.

Unit Leader, Neuroscience and Behavior Unit, California National Primate Research Center, Sept 2009- July 2015, then July 2018 – present.

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

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

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:**

2018-2020 National Institute of Mental Health (R21). Multi-PI grant (PIs Freeman and Bales). "Visualization of oxytocin receptor for translational social neuroscience". \$424,600.

- 2017-2022 National Institute of Child Health and Human Development (R01). PI. "The neural basis of pair-bonding in female titi monkeys". \$2,905,809.
- 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). PI. "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). PI. "Effects of chronic intranasal oxytocin". \$2,702,760.
- 2009-2014 National Institute of Child Health and Human Development grant (R01). PI. "Neurobiological mechanisms of social bonding in a monogamous primate". \$2,178,158.
- 2006 – present Grant from Good Nature Institute. PI. "Neurobiology of social behavior in titi monkeys." \$178,000.
- 2009 – 2012 National Institute of Child Health and Human Development grant (R21). PI. "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.
- 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 (2<sup>nd</sup> 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
- 2004            International Neuropeptide Society Young Investigator Award
- 2002            Burroughs-Wellcome/American Society of Primatologists Young Investigator  
Award. \$10,000.
- 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 (TOTAL = 104 articles; h-index = 38; i=10 index = 79; lifetime citations = 4,139).**

Freeman, S.M., Palumbo, M., Larke, R.H., Smith, A., Goodman, M., Bales, K.L. (in press) Effect of age and autism spectrum disorder on oxytocin receptor density in human basal forebrain and midbrain. *Translational Psychiatry*.

Seelke, A.M.H., Bond, J., Simmons, T.C., Joshi, N., Settles, M., Stolzenberg, D., Rhemtulla, M., Bales, K.L. (in press) Fatherhood alters gene expression within the MPOA. *Environmental Epigenetics*.

Freeman, S.M., Ngo, J., Singh, B., Masnaghetti, M., Bales, K.L., Blevings, J.E. (2018) Effects of chronic oxytocin administration and diet composition on oxytocin and vasopressin 1a receptor binding in the rat brain. *Neuroscience*, 392, 241-251. PMID: PMC6204308

Rogers, F.D., Rhemtulla, M., Ferrer, E., Bales, K.L. (2018) Longitudinal trajectories and interparental dynamics of prairie vole biparental care. *Frontiers in Ecology and Evolution*, <https://doi.org/10.3389/fevo.2018.00073>.

Ondrasek, N.R., Freeman, S.M., Bales, K.L., Calisi, R.M. (2018) Nonapeptide receptor distributions in promising avian models for the neuroecology of flocking. *Frontiers in Neuroscience*, 12, 713. PMID: PMC6198083

Seelke, A.M., Rhine, M.A., Khun, K., Shweyk, A.N., Scott, A.M., Bond, J.M., Graham, J.L., Havel, P.J., Wolden-Hanson, T., Bales, K.L., Blevins, J.E. (2018) Intranasal oxytocin reduces weight gain in diet-induced obese prairie voles. *Physiology & Behavior*, 196, 67-77. PMID: PMC6195438

Witczak, L.R., Ferrer, E., Bales, K.L. (2018) Effects of aggressive temperament on endogenous oxytocin levels in adult titi monkeys. *American Journal of Primatology*, 80(10).

Bales, K.L., Witczak, L.R., Simmons, T.C., Savidge, L.E., Rothwell, E.S., Rogers, F.D., Manning, R.A., Heise, M.J., Englund, M., Arias Del Razo, R. (2018) Social touch during development: Long-term effects on brain and behavior. *Neuroscience and Biobehavioral Reviews*. 95, 202-219.

Perkeybile, A.M., Carter, C.S., Wroblewski, K.L., Puglia, M.H., Kenkel, W.M., Lillard, T.S., Karaoli T., Gregory, S.G., Mohammadi N., Epstein, L., Bales, K.L., Connelly J.J. (2018) Early nurture epigenetically tunes the oxytocin receptor. *Psychoneuroendocrinology*. 99, 128-136.

Freeman, S.M., Rebout, N., Bales, K.L. (2018) Effect of reward type on object discrimination learning in socially monogamous coppery titi monkeys (*Callicebus cupreus*). *American Journal of Primatology*, 80(6). PMID: PMC6133243

Kanthaswamy, S., & Bales, K.L. (2018) Evaluating the genetic status of a closed colony of titi monkeys (*Callicebus cupreus*) using multigenerational pedigrees. *Journal of Medical Primatology*, 47(2), 139-141. PMID: PMC5843535

Hartman, S., Freeman, S.M., Bales, K.L., Belsky, J. (2018) Prenatal Stress as a Risk-and an Opportunity-Factor. *Psychological Science*. 29(4), 572-580.

Duque-Wilckens, N., Steinman, M.Q., Busnelli, M., Chini, B., Yokoyama, S., Pham, M., Laredo, S.A., Hao, R., Perkeybile, A.M., Minie, V.A., Tan, P.B., Bales, K.L., Trainor, B.C. (2018) Oxytocin receptors in the anteromedial bed nucleus of the stria terminalis promote stress-induced social avoidance in female California mice. *Biological Psychiatry* 83:203-213. PMID: PMC5743604

Guoynes, C.D., Simmons, T.C., Downing, G.M., Jacob, S., Solomon, M., Bales, K.L. (2018) Chronic intranasal oxytocin has dose-dependent effects on central oxytocin and vasopressin systems in prairie voles (*Microtus ochrogaster*). *Neuroscience*, 369:292-302. PMID: PMC5766367

Bales, K.L., Arias del Razo, R., Conklin, Q.A., Hartman, S., Mayer, H.S., Rogers, F.D., Simmons, T.C., Smith, L.K., Williams, A., Williams, D.R., Witczak, L.R., Wright, E.C. (2017) Titi monkeys as a novel nonhuman primate model for the neurobiology of social bonding. *Yale Journal of Biology and Medicine* 90: 373-387. PMID: PMC5612182

Simmons, T.C., Balland, J.F., Dhauna, J., Yang, S.Y., Traina, J.L., Vazquez, J., Bales, K.L. (2017) Early intranasal vasopressin administration impairs partner preference in adult male prairie voles (*Microtus ochrogaster*). *Frontiers in Endocrinology* 8:145. PMID: PMC5487415

Larke, R.H., Toubiana, A., Lindsay, K.A., Mendoza, S.P., Bales, K.L. (2017) Infant titi monkey behavior in the open field test and the effect of early adversity. *American Journal of Primatology* 79(9). PMID: PMC5587143

Maninger, N., Mendoza, S. P., Williams, D.R., Mason, W.A., Cherry, S.R., Rowland, D.J., Schaefer, T., Bales, K.L. (2017) Imaging, behavior and endocrine analysis of "jealousy" in a monogamous primate. *Frontiers in Ecology and Evolution*, 5, 119. PMID: PMC5909987

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. PMID: PMC5391773

Bales, K.L. (2017) Parenting in Animals. *Current Opinion in Psychology* 15:93-98. PMID: PMC5393448

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, S.M., Smith, A.L., Goodman, M.M., Bales, K.L. (2017) Selective localization of oxytocin receptors and vasopressin 1a receptors in the human brainstem. *Social Neuroscience* 12:113-123. PMID: PMC5474119

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. PMID: PMC5474115

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. PMID: PMC5278619

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. PMID: PMC5391773

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. PMID: PMC5094187

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. PMID: PMC5083213

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. PMID: PMC5159202

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. PMID: PMC4989357

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. PMID: PMC5028294

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. PMID: PMC4928571

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. PMID: PMC4867381

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. PMID: PMC4837091

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. PMID: PMC5474116

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. PMID: PMC4691427

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. PMID: PMC4689663

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. PMID: PMC4511842

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. PMID: PMC4456194

Ragen, B.J., Freeman, S.M., Laredo, S.A., Mendoza, S.P., Bales, K.L. (2015)  $\mu$  and  $\kappa$  opioid receptor distribution in the monogamous titi monkey (*Callicebus cupreus*): implications for social behavior and endocrine functioning. *Neuroscience* 290: 421-434. PMID: PMC4359670

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. PMID: PMC4351180

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. PMID: PMC4346756

Ragen, B.J., Maninger, N., Mendoza, S.P., Bales, K.L. (2015) The effects of morphine, naloxone, and  $\kappa$  opioid manipulation on endocrine functioning and social behavior in monogamous titi monkeys (*Callicebus cupreus*). *Neuroscience* 287: 32-42. PMID: PMC4312728

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. PMID: PMC4259989

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. PMID: PMC4147354

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. PMID: PMC4289022

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. PMID: PMC4083847

\* 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. PMID: PMC4145602

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., Guynes, 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., Billech, 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

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### **Peer-Reviewed Book Chapters**

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Bales, K.L., Kitzmann, C.D. (2011) Animal models for computing and communications: Past approaches and future challenges. In: Bio-inspired Communicating and Computing Networks, eds. Yang Xiao and Fei Hu, Auerbach Publications, CRC Press, pp. 3-18.

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Baker, A., Bales, K., and J.M. Dietz (2002) Mating system and group dynamics in golden lion tamarins (*Leontopithecus rosalia*). In Lion Tamarins: Biology and Conservation, D.G. Kleiman & A.B. Rylands, Eds. Washington, D.C.: Smithsonian Institution Press, pp. 188-212.

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#### **Edited Book:**

Bales, K.L. An Introduction to Hormones and Behavior. Cognella Publishing. Preliminary edition published 2017, first edition to be released in 2019.

**Commentaries and Encyclopedia Entries:**

Witczak, L. R., Simmons, T. C., & Bales, K. L. (in press). Social Bond Paradoxes. In: The Oxford Handbook on Evolutionary Psychology and Behavioral Endocrinology, eds. L. Welling and T.K. Shackelford, Oxford University Press.

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Bales, K.L. (2018) Pair-bonding in other mammals. In: Encyclopedia of Evolutionary Psychological Science, eds. T.K. Shackelford and V.A. Weekes-Shackelford, Springer International Publishing.

Freeman, S.M., Bales, K.L. (2018) Oxytocin, vasopressin, and primate behavior: Diversity and insight. American Journal of Primatology, 80(10).

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**Popular Media Exposure (with links to online articles):**

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How Prenatal Stress Impacts Postnatal Environment, The California Aggie, March 20, 2018

There's a potential upside to prenatal stress, Woodland Daily Democrat News, February 15, 2018

Child Development Experts Discover Potential Upside to Prenatal Stress, Human and Animal Health, UC Davis, February 7, 2018

Child development experts discover potential upside to prenatal stress, Medical XPress, February 7, 2018

El origen de los celos: cómo se forman en el cerebro y ayudan a mantener parejas unidas, 20minutos, October 28, 2017

When Jealousy Brain Circuit Has Been Discovered in Monkeys. Here's What It Means for Us. Big Think, October 26, 2017

Wann Eifersucht gut für deine Beziehung ist (When Jealousy is Good for your Relationship), Die Welt, October 24, 2017

Une zone dédiée à la jalousie dans notre cerveau ?, Top Santé, October 23, 2017

Как ревнуют обезьяны, Science and Life Russia, October 23, 2017

Scientists Map Monogamy, Jealousy in the Monkey Mind, Lab Manager, October 23, 2017

Jealousy is a Powerful Emotion That is Difficult to Study, Medindia, October 22, 2017

Ученые рассказали о пользе ревности, РИА Новости, October 22, 2017

Ученые разглядели ревность в мозге медных прыгунов, N+1. October 21, 2017

Ученые выяснили, как и почему ревнуют приматы, Naked Science, October 20, 2017

How to Have a Good Relationship: Why a Little Jealousy Can Help, Medical Daily, October 20, 2017

Scientists Map Monogamy, Jealousy in the Monkey Mind, Chromatography Techniques All, October 20, 2017

Scientists say root of jealousy is in the brain, The Cable Lifestyle, October 20, 2017

Scientists Map Monogamy, Jealousy in the Monkey Mind, Laboratory Equipment, October 20, 2017

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Scientists Map Monogamy, Jealousy in the Monkey Mind, Science Newsline, October 20, 2017

Have Scientists Pinpointed 'Jealousy' in The Primate Brain? Not So Fast, Science Alert, October 20, 2017

Scientists map monogamy, jealousy in the monkey mind, Health Medicinet, October 20, 2017

Scientists pinpoint jealousy in the monogamous brain, Frontiers Blog, October 20, 2017

Neurobiology of Jealousy Mapped In Monkey Brains, MedicalResearch.com, October 19, 2017

Jealousy study in pair-bonded monkeys offers insight into human emotions and behavior, News Medical, October 19, 2017

Primate study offers insights into relationship between of jealousy and monogamy, United Press International, October 19, 2017

How a little monkey's very hard day could teach us why we get jealous, Upworthy, October 19, 2017

Scientists Pinpoint Where Jealousy Lives In the Brain of Lovers, Inverse Science, October 19, 2017

We evolved to be JEALOUS: Scientists pinpoint envy in the brain of monkeys, and say we inherited the trait to help protect our most valuable resources, DailyMail.com, October 19, 2017

Researchers Pinpoint Jealousy in the Monogamous Brain, Neuroscience News, October 19, 2017

Ревность доставляет обезьянам боль (Jealousy Gives Monkeys Pain), TASS Science, October 19, 2017

This Is The Part Of Your Brain That Experiences Jealousy, IFL Science!, October 19, 2017

How jealous monkeys help us understand our emotions, Independent.ie, October 19, 2017

Primate study offers insights into relationship between of jealousy and monogamy, Breitbart News Network, October 19, 2017

Nel cervello del primate monogamo e geloso, Le Scienze, October 19, 2017

Scientists pinpoint jealousy in the monogamous mind, EurekAlert! October 19, 2017

Scientists map monogamy, jealousy in the monkey mind, EurekAlert! October 19, 2017

Scientists pinpoint jealousy in the monogamous mind, Phys.org, October 19, 2017

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Male coppery titi monkeys get very jealous when their mate spends time with a rival, International Business Times, October 19, 2017

This is what jealousy does to the brain, Alpr, October 18, 2017

Prairie voles console their stressed out friends, scientists find, The Verge, January 21, 2016

Romantic Love and Mate Choice, An InExact Science, October 14, 2015

Titi Monkey Infants are Mothered by their Fathers, Yale Daily News, October 13, 2015

Parenting Styles Affect Young Voles' Brains, Egghead About Research at UC Davis, July 31, 2015

Q&A With Undergraduate Researchers, The California Aggie, May 15, 2015

Oxytocin: The "Love Hormone" Might Also Help in Autism, National Geographic News, December 14, 2013

Oxytocin Found to Stimulate Social Brain Regions in Children With Autism, New York Times, December 2, 2013

Over time, oxytocin puts prairie voles at disadvantage, SFARI, November 12, 2013

Oxytocin and Social Interaction, Interactive Autism Network, August 22, 2013

A Cautionary Note on Oxytocin as a Treatment for Psychiatric Disorders, Elsevier, August 12, 2013

The Promise and Perils of Oxytocin, Science, January 18, 2013

Oxytocin: Too Much of a Good Thing?, Hug the Monkey, November 10, 2012

Study finds possible risks in autism treatment, Augusta Chronicle, November 3, 2012

When the Cuddle Hormone Is a Home Wrecker, Scientific American, October 16, 2012

Some Male Mammals Also Strive to be Good Fathers, Augusta Chronicle, June 14, 2012

Neural correlates of social bonding, Neuroscientists Talk Shop, UTSA, October 27, 2011

At UC-Davis, Monkey Dads are Nurturers, Sacramento Bee, January 23, 2007

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

Wax, H. (2004) "Caring for Children is its Own Reward". Science and Theology News.

For Tamarins, It Takes a Village, The Washington Post, October 11, 1999

#### **Selected Departmental and University Service:**

2018 -- present     Chair, Academic Senate Committee on Research  
UC-Davis representative to system-wide Committee on Research Policy

2017 – 2018        Member, Academic Senate Committee on Research

2009-2015, 2018 – present     Unit Leader, Neuroscience and Behavior Unit, California National Primate Research Center

2017 – present     Department of Psychology, Chair of Departmental Climate and Mentoring Committee

2017 – present     Department of Psychology, Graduate Curriculum Committee

2016, 2017         Organizer for Psychology Undergraduate Open House, Undergraduate Research Week

2016 – present     Campus Chemical and Laboratory Safety Committee

2012- 2015         Vice-Chair and Graduate Advisor, Psychology Dept

2012- 2015         Member, Executive Committee, Psychology Dept

2012- 2015         Chair, Graduate Admissions Committee, Psychology Dept

2008- 2011         Area head, Biological Psychology

2004 – 2017     Department of Psychology, Animal Care and Space Committee

#### **Selected National and International Service to the Field:**

2018 – present     Editor-in-Chief, *American Journal of Primatology*.

2018 – present     Member, Program Committee, Society for Affective Science.

2017 – present     Member, Committee on Animals In Research, Society for Neuroscience.

2017- 2018         Member, Program Committee, Parental Brain Conference



- 2016 – present Member, Advisory Board for Squirrel Monkey colony, MD Anderson Cancer Center
- 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
- 2011-2017 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 -2018 Associate editor, American Journal of Primatology
- 2006-2010 Treasurer, American Society of Primatologists
- 2006, 2018 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 – 2013 Member, Editorial Board, International Journal of Primatology
- 2001- 2004 Member of research and development committee, American Society of Primatologists

**Invited Presentations have been given at the following institutions:**

- 5<sup>th</sup> Annual Summer School for Ecology and Evolution, Sun Yat-sen University, Guangzhou, China, July 2018
- Sacramento Valley Branch of the American Association for Laboratory Animal Research, April 2018.
- Department of Biology, San Francisco State, March 2018.
- Institute for Human Development, UC-Berkeley, March 2018.
- Neuroscience Program, Indiana University, March 2018.
- Past President's Address, American Society of Primatologists Annual Meeting, Washington, D.C., Aug 2017.
- 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.
- NICHD 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.
- NICHD 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, Breckinridge, 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