

Stanford



Karen J. Parker, PhD

Truong-Tan Broadcom Endowed Professor and Professor, by courtesy, of Comparative Medicine

Psychiatry and Behavioral Sciences

CONTACT INFORMATION

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Bio

BIO

Dr. Karen J. Parker is the inaugural Truong-Tan Broadcom Endowed Professor, Chair of the Major Laboratories Steering Committee, and Associate Chair for Research Strategy and Oversight, in the Department of Psychiatry and Behavioral Sciences at the Stanford University School of Medicine. She is also Professor, by courtesy, of Comparative Medicine at Stanford University.

Dr. Parker directs the Social Neurosciences Research Program, which seeks to advance understanding of the biological basis of social functioning across a range of species, and to translate these fundamental insights to drive diagnostic and treatment advances for patients with social impairment. Her core research interests include: oxytocin and vasopressin signaling pathways, development of valid animal models for streamlined translation and clinical impact, and biomarker discovery and therapeutic testing in children with autism spectrum disorder.

Dr. Parker's research has been supported by the National Institutes of Health (NIH), Simons Foundation, and Department of Defense, published in leading scientific journals, and featured across diverse media outlets (e.g., NPR, CBS, New York Times, LA Times, Science, Scientific American). Dr. Parker received her undergraduate and graduate degrees from the University of Michigan. She completed postdoctoral training at Stanford University and joined the Stanford faculty thereafter. She is an Affiliate Scientist at the California National Primate Research Center, an elected fellow of the American College of Neuropsychopharmacology (ACNP), and a Kavli fellow of the U.S. National Academy of Sciences. She has attended key opinion leader meetings at the U.S. National Academies, NIH, and private foundations, and has held leadership positions on international research advisory committees (e.g., Society for Neuroscience; ACNP).

ACADEMIC APPOINTMENTS

- Professor, Psychiatry and Behavioral Sciences
- Professor (By courtesy), Comparative Medicine
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Chair, Research Strategy and Oversight, Stanford Department of Psychiatry, (2019- present)
- Chair, Major Laboratories Steering Committee, Stanford Department of Psychiatry, (2019- present)
- Vice Chair, Major Laboratories Steering Committee, Stanford Department of Psychiatry, (2018-2019)
- Affiliate Scientist, California National Primate Research Center, (2012- present)

HONORS AND AWARDS

- Fellow, American College of Neuropsychopharmacology
- Chairman's Award for Advancing Science, Dept. of Psychiatry, Stanford University
- George A. Miller Award, American Psychological Association
- Kavli Fellow, U.S. National Academy of Sciences

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member of Inaugural Constitution, Rules, and Ethics Committee, American College of Neuropsychopharmacology (2024 - present)
- Member of Executive Advisory Board, Wisconsin National Primate Research Center, University of Wisconsin, Madison (2023 - present)
- Member of Constitution and Rules Committee, American College of Neuropsychopharmacology (2021 - present)
- Faculty Advisor, BrainMind (2019 - present)
- Chair of Animal Research Committee, American College of Neuropsychopharmacology (2019 - 2020)
- Member of Committee on Animals in Research, Society for Neuroscience (2018 - 2022)
- Member of Animal Research Committee, American College of Neuropsychopharmacology (2017 - 2020)
- Member of Women's Task Force, American College of Neuropsychopharmacology (2017 - 2020)
- Editorial Board Member, Psychoneuroendocrinology (2013 - present)
- Member of BRLE Grant Review Panel, National Institutes of Health (2012 - 2018)

PROFESSIONAL EDUCATION

- Postdoctoral, Stanford University , Psychiatry Neuroscience
- Ph.D., University of Michigan , Biological Psychology
- A.B., University of Michigan , Psychology

LINKS

- Parker Lab Website: <http://med.stanford.edu/parkerlab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The principal goal of the Parker Lab Social Neurosciences Research Program at Stanford University is to better understand the biology of social functioning using an integrative, translational approach. Our behavioral research spans studies of individual differences in animal social development to studies of social cognition impairments in various clinical populations (e.g., in children with autism; in survivors of pediatric hypothalamic-pituitary tumors; in adults with depressive and anxiety disorders). Our biological studies employ epigenetic, gene expression, and neurotransmitter-based approaches to identify biomarkers of impaired social functioning, and we also conduct treatment trials to test the efficacy of novel pharmacotherapies to improve social abilities in animal models and in patients with social deficits. Our lab is particularly interested in testing whether “social” neuropeptide (e.g., oxytocin and arginine vasopressin) signaling pathways are implicated in human and non-human primate social behavior, and whether these neuropeptide pathways are robust biomarkers of, and treatment targets for, social impairments in clinical populations.

CLINICAL TRIALS

- Intranasal Oxytocin Treatment for Social Deficits in Children With Autism, Not Recruiting
- Intranasal Vasopressin Treatment in Children With Autism, Not Recruiting
- The Role of Vasopressin in the Social Deficits of Autism, Not Recruiting

PROJECTS

- See Lab website for current projects: <http://med.stanford.edu/parkerlab.html> - Stanford University

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Nate Stockham

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Child Psychiatry (Fellowship Program)
- Laboratory Animal Science (Masters Program)
- Neurosciences (Phd Program)
- Psychiatry and Behavioral Science (Fellowship Program)

Publications

PUBLICATIONS

- **Vasopressin deficiency: a hypothesized driver of both social impairment and fluid imbalance in autism spectrum disorder.** *Molecular psychiatry*
Clarke, L., Gesundheit, N., Sherr, E. H., Hardan, A. Y., Parker, K. J.
2024
- **Naturally occurring low sociality in female rhesus monkeys: A tractable model for autism or not?** *Molecular autism*
Oztan, O., Del Rosso, L. A., Simmons, S. M., Nguyen, D. K., Talbot, C. F., Capitanio, J. P., Garner, J. P., Parker, K. J.
2024; 15 (1): 8
- **Tales from the life and lab of a female social neuroscientist** *COMPREHENSIVE PSYCHONEUROENDOCRINOLOGY*
Parker, K. J.
2023; 16
- **Tales from the life and lab of a female social neuroscientist.** *Comprehensive psychoneuroendocrinology*
Parker, K. J.
2023; 16: 100202
- **Rhesus macaque social functioning is paternally, but not maternally, inherited by sons: potential implications for autism.** *Molecular autism*
Garner, J. P., Talbot, C. F., Del Rosso, L. A., McCowan, B., Kanthaswamy, S., Haig, D., Capitanio, J. P., Parker, K. J.
2023; 14 (1): 25
- **ACOUSTICALLY-DRIVEN PHONEME REMOVAL THAT PRESERVES VOCAL AFFECT CUES.** *Proceedings of the ... IEEE International Conference on Acoustics, Speech, and Signal Processing. ICASSP (Conference)*
Noufi, C., Berger, J., Frank, M., Parker, K., Bowling, D. L.
2023; 2023
- **Rhesus monkey sociality is stable across time and linked to variation in the initiation but not receipt of prosocial behavior.** *American journal of primatology*
Talbot, C. F., Madrid, J. E., Del Rosso, L. A., Capitanio, J. P., Garner, J. P., Parker, K. J.
2022: e23442

- **Reading the mind in the eyes in PTSD: Limited Moderation by the presence of a service dog.** *Journal of psychiatric research*
Woodward, S. H., Jamison, A. L., Khan, C., Gala, S., Bhowmick, C., Villasenor, D., Tamayo, G., Puckett, M., Parker, K. J.
2022; 155: 320-330
- **Linking oxytocin and arginine vasopressin signaling abnormalities to social behavior impairments in Prader-Willi syndrome.** *Neuroscience and biobehavioral reviews*
Oztan, O., Zyga, O., Stafford, D. E., Parker, K. J.
2022: 104870
- **Advances in human oxytocin measurement: challenges and proposed solutions.** *Molecular psychiatry*
Tabak, B. A., Leng, G., Szeto, A., Parker, K. J., Verbalis, J. G., Ziegler, T. E., Lee, M. R., Neumann, I. D., Mendez, A. J.
2022
- **Socio-behavioral dysfunction in disorders of hypothalamic-pituitary involvement: The potential role of disease-induced oxytocin and vasopressin signaling deficits.** *Neuroscience and biobehavioral reviews*
Clarke, L., Zyga, O., Pineo-Cavanaugh, P. L., Jeng, M., Fischbein, N. J., Partap, S., Katznelson, L., Parker, K. J.
2022: 104770
- **Leveraging a translational research approach to drive diagnostic and treatment advances for autism.** *Molecular psychiatry*
Parker, K. J.
2022
- **Oxytocin and the social facilitation of placebo effects.** *Molecular psychiatry*
Itskovich, E., Bowling, D. L., Garner, J. P., Parker, K. J.
2022
- **Characterizing Emotion Recognition and Theory of Mind Performance Profiles in Unaffected Siblings of Autistic Children** *FRONTIERS IN PSYCHOLOGY*
Uljarevic, M., Bott, N. T., Libove, R. A., Phillips, J. M., Parker, K. J., Hardan, A. Y.
2022; 12: 736324
- **Autism-associated biomarkers: test-retest reliability and relationship to quantitative social trait variation in rhesus monkeys.** *Molecular autism*
Oztan, O., Talbot, C. F., Argilli, E., Maness, A. C., Simmons, S. M., Mohsin, N., Del Rosso, L. A., Garner, J. P., Sherr, E. H., Capitanio, J. P., Parker, K. J.
2021; 12 (1): 50
- **Assessment of medical morbidities in a rhesus monkey model of naturally occurring low sociality.** *Autism research : official journal of the International Society for Autism Research*
Myers, A. K., Talbot, C. F., Del Rosso, L. A., Maness, A. C., Simmons, S. M., Garner, J. P., Capitanio, J. P., Parker, K. J.
2021
- **The factor structure of the macaque social responsiveness scale-revised predicts social behavior and personality dimensions.** *American journal of primatology*
Talbot, C. F., Maness, A. C., Capitanio, J. P., Parker, K. J.
2021: e23234
- **Long-term effects of intermittent early life stress on primate prefrontal-subcortical functional connectivity.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
Yuan, R., Nechvatal, J. M., Buckmaster, C. L., Ayash, S., Parker, K. J., Schatzberg, A. F., Lyons, D. M., Menon, V.
2021
- **Complex Interplay Between Cognitive Ability and Social Motivation in Predicting Social Skill: A Unique Role for Social Motivation in Children With Autism.** *Autism research : official journal of the International Society for Autism Research*
Itskovich, E., Zyga, O., Libove, R. A., Phillips, J. M., Garner, J. P., Parker, K. J.
2020
- **Complex Interplay Between Cognitive Ability and Social Motivation in Predicting Social Skill: A Unique Role for Social Motivation in Children With Autism** *AUTISM RESEARCH*
Itskovich, E., Zyga, O., Libove, R. A., Phillips, J. M., Garner, J. P., Parker, K. J.
2020
- **ADVANCING AUTISM SPECTRUM DISORDER DETECTION AND TREATMENT: A TRANSLATIONAL APPROACH**
Parker, K. J.

ELSEVIER SCIENCE INC.2020: S321–S322

- **A psychometrically robust screening tool to rapidly identify socially impaired monkeys in the general population.** *Autism research : official journal of the International Society for Autism Research*
Talbot, C. F., Garner, J. P., Maness, A. C., McCowan, B., Capitanio, J. P., Parker, K. J.
2020
- **Variation, plasticity, and alternative mating tactics: Revisiting what we know about the socially monogamous prairie vole** *ADVANCES IN THE STUDY OF BEHAVIOR, VOL 52*
Madrid, J. E., Parker, K. J., Ophir, A. G., Naguib, M., Barrett, L., Healy, S. D., Podos, J., Simmons, L. W., Zuk, M.
2020; 52: 203–42
- **Neonatal CSF vasopressin concentration predicts later medical record diagnoses of autism spectrum disorder.** *Proceedings of the National Academy of Sciences of the United States of America*
Oztan, O. n., Garner, J. P., Constantino, J. N., Parker, K. J.
2020
- **Blood oxytocin concentration positively predicts contagious yawning behavior in children with autism spectrum disorder.** *Autism research : official journal of the International Society for Autism Research*
Mariscal, M. G., Oztan, O., Rose, S. M., Libove, R. A., Jackson, L. P., Sumiyoshi, R. D., Trujillo, T. H., Carson, D. S., Phillips, J. M., Garner, J. P., Hardan, A. Y., Parker, K. J.
2019
- **A randomized placebo-controlled pilot trial shows that intranasal vasopressin improves social deficits in children with autism** *SCIENCE TRANSLATIONAL MEDICINE*
Parker, K. J., Oztan, O., Libove, R. A., Mohsin, N., Karhson, D. S., Sumiyoshi, R. D., Summers, J. E., Hinman, K. E., Motonaga, K. S., Phillips, J. M., Carson, D. S., Fung, L. K., Garner, et al
2019; 11 (491)
- **Nonlinear relationship between early life stress exposure and subsequent resilience in monkeys.** *Scientific reports*
Parker, K. J., Buckmaster, C. L., Hyde, S. A., Schatzberg, A. F., Lyons, D. M.
2019; 9 (1): 16232
- **Cerebrospinal fluid vasopressin and symptom severity in children with autism.** *Annals of neurology*
Oztan, O., Garner, J. P., Partap, S., Sherr, E. H., Hardan, A. Y., Farmer, C., Thurm, A., Swedo, S. E., Parker, K. J.
2018
- **Adaptive developmental plasticity in rhesus macaques: the serotonin transporter gene interacts with maternal care to affect juvenile social behaviour.** *Proceedings. Biological sciences*
Madrid, J. E., Mandalaywala, T. M., Coyne, S. P., Ahloy-Dallaire, J., Garner, J. P., Barr, C. S., Maestripieri, D., Parker, K. J.
2018; 285 (1881)
- **Arginine vasopressin in cerebrospinal fluid is a marker of sociality in nonhuman primates** *SCIENCE TRANSLATIONAL MEDICINE*
Parker, K. J., Garner, J. P., Oztan, O., Tarara, E. R., Li, J., Sclafani, V., Del Rosso, L. A., Chun, K., Berquist, S. W., Chez, M. G., Partap, S., Hardan, A. Y., Sherr, et al
2018; 10 (439)
- **Plasma anandamide concentrations are lower in children with autism spectrum disorder** *MOLECULAR AUTISM*
Karhson, D. S., Krasinska, K. M., Dallaire, J., Libove, R. A., Phillips, J. M., Chien, A. S., Garner, J. P., Hardan, A. Y., Parker, K. J.
2018; 9: 18
- **Vigilance for threat accounts for inter-individual variation in physiological responses to adversity in rhesus macaques: A cognition × environment approach.** *Developmental psychobiology*
Mandalaywala, T. M., Petrullo, L. A., Parker, K. J., Maestripieri, D., Higham, J. P.
2017; 59 (8): 1031–1038
- **Preference for novel faces in male infant monkeys predicts cerebrospinal fluid oxytocin concentrations later in life.** *Scientific reports*
Madrid, J. E., Oztan, O., Sclafani, V., Del Rosso, L. A., Calonder, L. A., Chun, K., Capitanio, J. P., Garner, J. P., Parker, K. J.
2017; 7 (1): 12935
- **Intranasal oxytocin treatment for social deficits and biomarkers of response in children with autism.** *Proceedings of the National Academy of Sciences of the United States of America*

- Parker, K. J., Oztan, O., Libove, R. A., Sumiyoshi, R. D., Jackson, L. P., Karhson, D. S., Summers, J. E., Hinman, K. E., Motonaga, K. S., Phillips, J. M., Carson, D. S., Garner, J. P., Hardan, et al
2017; 114 (30): 8119-8124
- **Biomarker discovery for disease status and symptom severity in children with autism.** *Psychoneuroendocrinology*
Oztan, O. n., Jackson, L. P., Libove, R. A., Sumiyoshi, R. D., Phillips, J. M., Garner, J. P., Hardan, A. Y., Parker, K. J.
2017; 89: 39–45
 - **Vigilance for threat accounts for inter-individual variation in physiological responses to adversity in rhesus macaques: A cognition × environment approach.** *Developmental Psychobiology*
Mandalaywala, T. M., Petrullo, L. A., Parker, K. J., Maestripieri, D., Higham, J. P.
2017: 1031–38
 - **Effects of early life adversity on cortisol/salivary alpha-amylase symmetry in free-ranging juvenile rhesus macaques** *HORMONES AND BEHAVIOR*
Petrullo, L. A., Mandalaywala, T. M., Parker, K. J., Maestripieri, D., Higham, J. P.
2016; 86: 78-84
 - **Early Predictors of Impaired Social Functioning in Male Rhesus Macaques (*Macaca mulatta*)** *PloS one*
Sclafani, V., Del Rosso, L. A., Seil, S. K., Calonder, L. A., Madrid, J. E., Bone, K. J., Sherr, E. H., Garner, J. P., Capitanio, J. P., Parker, K. J.
2016; 11 (10)
 - **Endocannabinoid signaling in social functioning: an RDoC perspective.** *Translational Psychiatry*
Karhson, D. S., Hardan, A. Y., Parker, K. J.
2016
 - **Cup tool use by squirrel monkeys** *AMERICAN JOURNAL OF PRIMATOLOGY*
Buckmaster, C. L., Hyde, S. A., Parker, K. J., Lyons, D. M.
2015; 77 (12): 1323-1332
 - **Dopamine D4 receptor genotype variation in free-ranging rhesus macaques and its association with juvenile behavior.** *Behavioural brain research*
Coyne, S. P., Lindell, S. G., Clemente, J., Barr, C. S., Parker, K. J., Maestripieri, D.
2015; 292: 50-55
 - **Cerebrospinal fluid and plasma oxytocin concentrations are positively correlated and negatively predict anxiety in children** *MOLECULAR PSYCHIATRY*
Carson, D. S., Berquist, S. W., Trujillo, T. H., Garner, J. P., Hannah, S. L., Hyde, S. A., Sumiyoshi, R. D., Jackson, L. P., MOSS, J. K., Strehlow, M. C., Cheshier, S. H., Partap, S., Hardan, et al
2015; 20 (9): 1085-1090
 - **Arginine Vasopressin Is a Blood-Based Biomarker of Social Functioning in Children with Autism** *PLOS ONE*
Carson, D. S., Garner, J. P., Hyde, S. A., Libove, R. A., Berquist, S. W., Hornbeak, K. B., Jackson, L. P., Sumiyoshi, R. D., Howerton, C. L., Hannah, S. L., Partap, S., Phillips, J. M., Hardan, et al
2015; 10 (7)
 - **Plasma vasopressin concentrations positively predict cerebrospinal fluid vasopressin concentrations in human neonates** *PEPTIDES*
Carson, D. S., Howerton, C. L., Garner, J. P., Hyde, S. A., Clark, C. L., Hardan, A. Y., Penn, A. A., Parker, K. J.
2014; 61: 12-16
 - **Physiological and behavioural responses to weaning conflict in free-ranging primate infants.** *Animal behaviour*
Mandalaywala, T. M., Higham, J. P., Heistermann, M., Parker, K. J., Maestripieri, D.
2014; 97: 241-247
 - **Early Experience Affects the Strength of Vigilance for Threat in Rhesus Monkey Infants** *PSYCHOLOGICAL SCIENCE*
Mandalaywala, T. M., Parker, K. J., Maestripieri, D.
2014; 25 (10): 1893-1902
 - **Early experience affects the strength of vigilance for threat in rhesus monkey infants.** *Psychological science*
Mandalaywala, T. M., Parker, K. J., Maestripieri, D.
2014; 25 (10): 1893-902
 - **Plasma oxytocin concentrations and OXTR polymorphisms predict social impairments in children with and without autism spectrum disorder** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Parker, K. J., Garner, J. P., Libove, R. A., Hyde, S. A., Hornbeak, K. B., Carson, D. S., Liao, C., Phillips, J. M., Hallmayer, J. F., Hardan, A. Y. 2014; 111 (33): 12258-12263
- **Emotion dysregulation and the core features of autism spectrum disorder.** *Journal of autism and developmental disorders* Samson, A. C., Phillips, J. M., Parker, K. J., Shah, S., Gross, J. J., Hardan, A. Y. 2014; 44 (7): 1766-1772
 - **Plasma oxytocin concentrations are lower in depressed vs. healthy control women and are independent of cortisol.** *Journal of psychiatric research* Yuen, K. W., Garner, J. P., Carson, D. S., Keller, J., Lembke, A., Hyde, S. A., Kenna, H. A., Tennakoon, L., Schatzberg, A. F., Parker, K. J. 2014; 51: 30-36
 - **The three-hit concept of vulnerability and resilience: Toward understanding adaptation to early-life adversity outcome** *PSYCHONEUROENDOCRINOLOGY* Daskalakis, N. P., Bagot, R. C., Parker, K. J., Vinkers, C. H., De Kloet, E. R. 2013; 38 (9): 1858-1873
 - **Neonatal CSF oxytocin levels are associated with parent report of infant soothability and sociability.** *Psychoneuroendocrinology* Clark, C. L., St John, N., Pasca, A. M., Hyde, S. A., Hornbeak, K., Abramova, M., Feldman, H., Parker, K. J., Penn, A. A. 2013; 38 (7): 1208-1212
 - **Distinct Plasma Profile of Polar Neutral Amino Acids, Leucine, and Glutamate in Children with Autism Spectrum Disorders** *JOURNAL OF AUTISM AND DEVELOPMENTAL DISORDERS* Tirouvanziam, R., Obukhanych, T. V., Laval, J., Aronov, P. A., Libove, R., Banerjee, A. G., Parker, K. J., O'Hara, R., Herzenberg, L. A., Herzenberg, L. A., Hardan, A. Y. 2012; 42 (5): 827-836
 - **Effects of intranasal oxytocin on social anxiety in males with fragile X syndrome** *PSYCHONEUROENDOCRINOLOGY* Hall, S. S., Lightbody, A. A., McCarthy, B. E., Parker, K. J., Reiss, A. L. 2012; 37 (4): 509-518
 - **Hypothalamic-pituitary-adrenal axis physiology and cognitive control of behavior in stress inoculated monkeys** *2nd Herzliyah Symposium on Developmental Psychopathology* Parker, K. J., Buckmaster, C. L., Lindley, S. E., Schatzberg, A. F., Lyons, D. M. SAGE PUBLICATIONS LTD. 2012: 45-52
 - **Psychological Stress in Childhood and Susceptibility to the Chronic Diseases of Aging: Moving Toward a Model of Behavioral and Biological Mechanisms** *PSYCHOLOGICAL BULLETIN* Miller, G. E., Chen, E., Parker, K. J. 2011; 137 (6): 959-997
 - **A novel form of oxytocin in New World monkeys** *BIOLOGY LETTERS* Lee, A. G., Cool, D. R., Grunwald, W. C., Neal, D. E., Buckmaster, C. L., Cheng, M. Y., Hyde, S. A., Lyons, D. M., Parker, K. J. 2011; 7 (4): 584-587
 - **Identifying key features of early stressful experiences that produce stress vulnerability and resilience in primates** *NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS* Parker, K. J., Maestripieri, D. 2011; 35 (7): 1466-1483
 - **Somatic and neuroendocrine responses to standard and biologically salient acoustic startle stimuli in monkeys** *PSYCHONEUROENDOCRINOLOGY* Parker, K. J., Hyde, S. A., Buckmaster, C. L., Tanaka, S. M., Brewster, K. K., Schatzberg, A. F., Lyons, D. M., Woodward, S. H. 2011; 36 (4): 547-556
 - **Mu-opioid Receptor (OPRM1) Variation, Oxytocin Levels and Maternal Attachment in Free-Ranging Rhesus Macaques Macaca mulatta** *BEHAVIORAL NEUROSCIENCE* Higham, J. P., Barr, C. S., Hoffman, C. L., Mandalaywala, T. M., Parker, K. J., Maestripieri, D. 2011; 125 (2): 131-136
 - **Oxytocin receptor gene polymorphism (rs2254298) interacts with familial risk for psychopathology to predict symptoms of depression and anxiety in adolescent girls** *PSYCHONEUROENDOCRINOLOGY* Thompson, R. J., Parker, K. J., Hallmayer, J. F., Waugh, C. E., Gotlib, I. H.

2011; 36 (1): 144-147

- **Animal Models of Early Life Stress: Implications for Understanding Resilience** *DEVELOPMENTAL PSYCHOBIOLOGY*
Lyons, D. M., Parker, K. J., Schatzberg, A. F.
2010; 52 (7): 616-624
- **Preliminary evidence that plasma oxytocin levels are elevated in major depression** *PSYCHIATRY RESEARCH*
Parker, K. J., Kenna, H. A., Zeitzer, J. M., Keller, J., Blasey, C. M., Amico, J. A., Schatzberg, A. F.
2010; 178 (2): 359-362
- **Effects of Age on Cerebrospinal Fluid Oxytocin Levels in Free-Ranging Adult Female and Infant Rhesus Macaques** *BEHAVIORAL NEUROSCIENCE*
Parker, K. J., Hoffman, C. L., Hyde, S. A., Cummings, C. S., Maestripieri, D.
2010; 124 (3): 428-433
- **FOR BETTER OR WORSE? STRESS INOCULATION EFFECTS FOR IMPLICIT BUT NOT EXPLICIT ANXIETY** *DEPRESSION AND ANXIETY*
Edge, M. D., Ramel, W., Drabant, E. M., Kuo, J. R., Parker, K. J., Gross, J. J.
2009; 26 (9): 831-837
- **Prefrontal Plasticity and Stress Inoculation-Induced Resilience** *DEVELOPMENTAL NEUROSCIENCE*
Katz, M., Liu, C., Schaer, M., Parker, K. J., Ottet, M., Epps, A., Buckmaster, C. L., Bammer, R., Moseley, M. E., Schatzberg, A. F., Eliez, S., Lyons, D. M.
2009; 31 (4): 293-299
- **Developmental cascades linking stress inoculation, arousal regulation, and resilience** *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*
Lyons, D. M., Parker, K. J., Katz, M., Schatzberg, A. F.
2009; 3
- **Preliminary evidence that hippocampal volumes in monkeys predict stress levels of adrenocorticotropic hormone** *BIOLOGICAL PSYCHIATRY*
Lyons, D. M., Parker, K. J., Zeitzer, J. M., Buckmaster, C. L., Schatzberg, A. F.
2007; 62 (10): 1171-1174
- **Early life stress and novelty seeking behavior in adolescent monkeys** *PSYCHONEUROENDOCRINOLOGY*
Parker, K. J., Rainwater, K. L., Buckmaster, C. L., Schatzberg, A. F., Lindley, S. E., Lyons, D. M.
2007; 32 (7): 785-792
- **Stress inoculation-induced indications of resilience in monkeys** *22nd Annual Meeting of the International-Society-for-Traumatic-Stress-Studies*
Lyons, D. M., Parker, K. J.
JOHN WILEY & SONS INC. 2007: 423-33
- **Social stress-related behavior affects hippocampal cell proliferation in mice** *PHYSIOLOGY & BEHAVIOR*
Mitra, R., Sundlass, K., Parker, K. J., Schatzberg, A. F., Lyons, D. M.
2006; 89 (2): 123-127
- **Maternal mediation, stress inoculation, and the development of neuroendocrine stress resistance in primates** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Parker, K. J., Buckmaster, C. L., Sundlass, K., Schatzberg, A. F., Lyons, D. M.
2006; 103 (8): 3000-3005
- **Intranasal oxytocin administration attenuates the ACTH stress response in monkeys** *PSYCHONEUROENDOCRINOLOGY*
Parker, K. J., Buckmaster, C. L., Schatzberg, A. F., Lyons, D. M.
2005; 30 (9): 924-929
- **Mild early life stress enhances prefrontal-dependent response inhibition in monkeys** *BIOLOGICAL PSYCHIATRY*
Parker, K. J., Buckmaster, C. L., Justus, K. R., Schatzberg, A. F., Lyons, D. M.
2005; 57 (8): 848-855
- **Prospective investigation of stress inoculation in young monkeys** *ARCHIVES OF GENERAL PSYCHIATRY*
Parker, K. J., Buckmaster, C. L., Schatzberg, A. F., Lyons, D. M.
2004; 61 (9): 933-941
- **Female meadow voles (*Microtus pennsylvanicus*) demonstrate same-sex partner preferences** *JOURNAL OF COMPARATIVE PSYCHOLOGY*
Parker, K. J., Lee, T. M.

2003; 117 (3): 283-289

- **Circadian and homeostatic regulation of hypocretin in a primate model: Implications for the consolidation of wakefulness** *JOURNAL OF NEUROSCIENCE*
Zeitzer, J. M., Buckmaster, C. L., Parker, K. J., Hauck, C. M., Lyons, D. M., Mignot, E.
2003; 23 (8): 3555-3560
- **Euroendocrine aspects of hyperportisism in major depression** *HORMONES AND BEHAVIOR*
Parker, K. J., Schatzberg, A. F., Lyons, D. M.
2003; 43 (1): 60-66
- **Interaction of photoperiod and testes development is associated with paternal care in *Microtus pennsylvanicus* (meadow voles)** *PHYSIOLOGY & BEHAVIOR*
Parker, K. J., Lee, T. M.
2002; 75 (1-2): 91-95
- **Social and environmental factors influence the suppression of pup-directed aggression and development of paternal behavior in captive meadow voles (*Microtus pennsylvanicus*)** *JOURNAL OF COMPARATIVE PSYCHOLOGY*
Parker, K. J., Lee, T. M.
2001; 115 (4): 331-336
- **Day length and sociosexual cohabitation alter central oxytocin receptor binding in female meadow voles (*Microtus pennsylvanicus*)** *BEHAVIORAL NEUROSCIENCE*
Parker, K. J., Phillips, K. M., Kinney, L. F., Lee, T. M.
2001; 115 (6): 1349-1356
- **Paternal behavior is associated with central neurohormone receptor binding patterns in meadow voles (*Microtus pennsylvanicus*)** *BEHAVIORAL NEUROSCIENCE*
Parker, K. J., Kinney, L. F., Phillips, K. M., Lee, T. M.
2001; 115 (6): 1341-1348
- **Central vasopressin administration regulates the onset of facultative paternal behavior in *Microtus pennsylvanicus* (Meadow voles)** *HORMONES AND BEHAVIOR*
Parker, K. J., Lee, T. M.
2001; 39 (4): 285-294
- **Development of selective partner preferences in captive male and female *Microtus pennsylvanicus* (meadow voles)** *Animal Behaviour*
Parker KJ, Phillips KM, Lee TM
2001; 61 (6): 1217-1226