

Stanford

David Lyons

Professor (Research) of Psychiatry & Behavioral Sciences (General Psychiatry and Psychology-Adult)

Psychiatry and Behavioral Sciences

Bio

ACADEMIC APPOINTMENTS

- Professor (Research), Psychiatry and Behavioral Sciences
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Catherine R. Kennedy and Daniel L. Grossman Fellow in Human Biology, Stanford University

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Behavioral neuroscience

Teaching

COURSES

2020-21

- Behavior, Health, and Development: HUMBIO 4B (Spr)

2019-20

- Behavior, Health, and Development: HUMBIO 4B (Spr)

2018-19

- Behavior, Health, and Development: HUMBIO 3B (Win)

2017-18

- Behavior, Health, and Development: HUMBIO 3B (Win)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Decoding the temporal nature of brain GR activity in the NF#B signal transition leading to depressive-like behavior.** *Molecular psychiatry*
Han, Y. M., Kim, M. S., Jo, J., Shin, D., Kwon, S. H., Seo, J. B., Kang, D., Lee, B. D., Ryu, H., Hwang, E. M., Kim, J. M., Patel, P. D., Lyons, et al
2021

- **Multisensory modulation of body ownership in mice.** *Neuroscience of consciousness*
Buckmaster, C. L., Rathmann-Bloch, J. E., de Lecea, L., Schatzberg, A. F., Lyons, D. M.
2020; 2020 (1): niz019
- **Resilience as a process instead of a trait** *STRESS RESILIENCE: MOLECULAR AND BEHAVIORAL ASPECTS*
Lyons, D. M., Schatzberg, A. F., Chen, A.
2020: 33–44
- **Stress inoculation in mice induces global resilience.** *Translational psychiatry*
Ayash, S., Schmitt, U., Lyons, D. M., Müller, M. B.
2020; 10 (1): 200
- **Attenuation of Anti-Suicidal Effects of Ketamine by Opioid Receptor Antagonism**
Williams, N., Heifets, B., Bentzley, B., Blasey, C., Sudheimer, K., Lyons, D., Schatzberg, A.
ELSEVIER SCIENCE INC.2019: S113
- **Neural cell adhesion molecule peptide mimetics modulate emotionality: pharmacokinetic and behavioral studies in rats and non-human primates** *NEUROPSYCHOPHARMACOLOGY*
Turner, C. A., Lyons, D. M., Buckmaster, C. L., Aurbach, E. L., Watson, S. J., Schatzberg, A. F., Akil, H.
2019; 44 (2): 356–63
- **Attenuation of antidepressant and antisuicidal effects of ketamine by opioid receptor antagonism.** *Molecular psychiatry*
Williams, N. R., Heifets, B. D., Bentzley, B. S., Blasey, C., Sudheimer, K. D., Hawkins, J., Lyons, D. M., Schatzberg, A. F.
2019
- **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
- **Attenuation of Antidepressant Effects of Ketamine by Opioid Receptor Antagonism**
Williams, N. R., Heifets, B. D., Blasey, C., Sudheimer, K., Pannu, J., Pankow, H., Hawkins, J., Birnbaum, J., Lyons, D. M., Rodriguez, C. I., Schatzberg, A. F.
AMER PSYCHIATRIC PUBLISHING, INC.2018: 1205–15
- **Attenuation of Antidepressant Effects of Ketamine by Opioid Receptor Antagonism.** *The American journal of psychiatry*
Williams, N. R., Heifets, B. D., Blasey, C., Sudheimer, K., Pannu, J., Pankow, H., Hawkins, J., Birnbaum, J., Lyons, D. M., Rodriguez, C. I., Schatzberg, A. F.
2018: appiajp201818020138
- **Learning to actively cope with stress in female mice.** *Psychoneuroendocrinology*
Lyons, D. M., Buckmaster, C. L., Schatzberg, A. F.
2018; 96: 78–83
- **KETAMINE'S ANTIDEPRESSANT EFFECT IS BLOCKED BY A MU-OPIOID RECEPTOR ANTAGONIST IN HUMANS AND MICE**
Heifets, B. D., Williams, N., Sudheimer, K., Pankow, H., Blasey, C., Lyons, D., Schatzberg, A. F.
LIPPINCOTT WILLIAMS & WILKINS.2018: 343
- **Integration of neural and epigenetic contributions to posttraumatic stress symptoms: The role of hippocampal volume and glucocorticoid receptor gene methylation** *PLOS ONE*
McNerney, M., Sheng, T., Nechvatal, J. M., Lee, A. G., Lyons, D. M., Soman, S., Liao, C., O'Hara, R., Hallmayer, J., Taylor, J., Ashford, J., Yesavage, J., Adamson, et al
2018; 13 (2): e0192222
- **Stress amplifies sex differences in primate prefrontal profiles of gene expression** *BIOLOGY OF SEX DIFFERENCES*
Lee, A. G., Hagenauer, M., Absher, D., Morrison, K. E., Bale, T. L., Myers, R. M., Watson, S. J., Akil, H., Schatzberg, A. F., Lyons, D. M.
2017; 8: 36
- **Striatal dopamine D2/3 receptor regulation by stress inoculation in squirrel monkeys.** *Neurobiology of stress*
Lee, A. G., Nechvatal, J. M., Shen, B., Buckmaster, C. L., Levy, M. J., Chin, F. T., Schatzberg, A. F., Lyons, D. M.
2016; 3: 68–73
- **Learning to cope with stress modulates anterior cingulate cortex stargazin expression in monkeys and mice** *NEUROBIOLOGY OF LEARNING AND MEMORY*

- Lee, A. G., Capanzana, R., Brockhurst, J., Cheng, M. Y., Buckmaster, C. L., Absher, D., Schatzberg, A. F., Lyons, D. M.
2016; 131: 95-100
- **Temporal variability of glucocorticoid receptor activity is functionally important for the therapeutic action of fluoxetine in the hippocampus** *MOLECULAR PSYCHIATRY*
Lee, M., Kim, Y., Park, W., Park, O., Kwon, S., Hong, K. S., Rhim, H., Shim, I., Morita, K., Wong, D. L., Patel, P. D., Lyons, D. M., Schatzberg, et al
2016; 21 (2): 252-260
 - **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
 - **Stress inoculation modeled in mice** *TRANSLATIONAL PSYCHIATRY*
Brockhurst, J., Cheleuitte-Nieves, C., Buckmaster, C. L., Schatzberg, A. F., Lyons, D. M.
2015; 5
 - **Stress inoculation modeled in mice.** *Translational psychiatry*
Brockhurst, J., Cheleuitte-Nieves, C., Buckmaster, C. L., Schatzberg, A. F., Lyons, D. M.
2015; 5
 - **Coping and glucocorticoid receptor regulation by stress inoculation** *PSYCHONEUROENDOCRINOLOGY*
Lee, A. G., Buckmaster, C. L., Yi, E., Schatzberg, A. F., Lyons, D. M.
2014; 49: 272-279
 - **Coping and glucocorticoid receptor regulation by stress inoculation.** *Psychoneuroendocrinology*
Lee, A. G., Buckmaster, C. L., Yi, E., Schatzberg, A. F., Lyons, D. M.
2014; 49: 272-279
 - **Evaluation of s-1 receptor radioligand 18F-FTC-146 in rats and squirrel monkeys using PET.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
James, M. L., Shen, B., Nielsen, C. H., Behera, D., Buckmaster, C. L., Mesangeau, C., Zavaleta, C., Vuppala, P. K., Jamalapuram, S., Avery, B. A., Lyons, D. M., McCurdy, C. R., Biswal, et al
2014; 55 (1): 147-153
 - **Evaluation of s-1 Receptor Radioligand 18F-FTC-146 in Rats and Squirrel Monkeys Using PET.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
James, M. L., Shen, B., Nielsen, C. H., Behera, D., Buckmaster, C. L., Mesangeau, C., Zavaleta, C., Vuppala, P. K., Jamalapuram, S., Avery, B. A., Lyons, D. M., McCurdy, C. R., Biswal, et al
2014; 55 (1): 147-153
 - **Early Life Stress Inoculation Changes Brain Development**
Nechvatal, J. M., Qiu, D., Buckmaster, C. L., Schatzberg, A. F., Moseley, M. E., Lyons, D. M.
ELSEVIER SCIENCE INC.2013: 84S
 - **Coping changes the brain** *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*
Nechvatal, J. M., Lyons, D. M.
2013; 7
 - **Coping changes the brain.** *Frontiers in behavioral neuroscience*
Nechvatal, J. M., Lyons, D. M.
2013; 7: 13-?
 - **Prokineticin 2 is an endangering mediator of cerebral ischemic injury** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Cheng, M. Y., Lee, A. G., Culbertson, C., Sun, G., Talati, R. K., Manley, N. C., Li, X., Zhao, H., Lyons, D. M., Zhou, Q., Steinberg, G. K., Sapolsky, R. M.
2012; 109 (14): 5475-5480
 - **Time-course of cerebrospinal fluid histamine in the wake-consolidated squirrel monkey** *JOURNAL OF SLEEP RESEARCH*
Zeitzer, J. M., Kodama, T., Buckmaster, C. L., Honda, Y., Lyons, D. M., Nishino, S., Mignot, E.
2012; 21 (2): 189-194

- **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
- **Hypothalamic-pituitary-adrenal axis physiology and cognitive control of behavior in stress inoculated monkeys.** *International journal of behavioral development*
Parker, K. J., Buckmaster, C. L., Lindley, S. E., Schatzberg, A. F., Lyons, D. M.
2012; 36 (1)
- **The neurobiology of the stress-resistant brain** *STRESS-THE INTERNATIONAL JOURNAL ON THE BIOLOGY OF STRESS*
Fleshner, M., Maier, S. F., Lyons, D. M., Raskind, M. A.
2011; 14 (5): 498-502
- **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
- **Resilience and adaptive aspects of stress in neurobehavioral development** *NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS*
Lyons, D. M., Macri, S.
2011; 35 (7): 1451-1451
- **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
- **[F-18]FTC-146 for imaging sigma-1 receptors in squirrel monkey brain using PET/MRI**
James, M. L., Shen, B., Nielsen, C. H., Buckmaster, C. L., Berganos, R. A., Zavaleta, C., Lyons, D., McCurdy, C. R., Gambhir, S. S., Chin, F. T.
WILEY-BLACKWELL.2011: S317–S317
- **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
- **Stress coping stimulates hippocampal neurogenesis in adult monkeys** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lyons, D. M., Buckmaster, P. S., Lee, A. G., Wu, C., Mitra, R., Duffey, L. M., Buckmaster, C. L., Her, S., Patel, P. D., Schatzberg, A. F.
2010; 107 (33): 14823-14827
- **Modafinil and gamma-hydroxybutyrate have sleep state-specific pharmacological actions on hypocretin-1 physiology in a primate model of human sleep** *BEHAVIOURAL PHARMACOLOGY*
Zeitzer, J. M., Buckmaster, C. L., Landolt, H., Lyons, D. M., Mignot, E.
2009; 20 (7): 643-652
- **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
- **Animal Models** *AMERICAN PSYCHIATRIC PUBLISHING TEXTBOOK OF PSYCHOPHARMACOLOGY, 4TH EDITION*
Lyons, D. M., Schatzberg, A. F., Nemeroff, C. B.
2009: 153–60
- **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
- **Stress-induced changes in corticosteroid receptor expression in primate hippocampus and prefrontal cortex** *PSYCHONEUROENDOCRINOLOGY*
Patel, P. D., Katz, M., Karssen, A. M., Lyons, D. M.
2008; 33 (3): 360-367

- **Stress-induced changes in primate prefrontal profiles of gene expression** *MOLECULAR PSYCHIATRY*
Karssen, A. M., Her, S., Li, J. Z., Patel, P. D., Meng, F., Bunney, W. E., Jones, E. G., Watson, S. J., Akil, H., Myers, R. M., Schatzberg, A. F., Lyons, D. M.
2007; 12 (12): 1089-1102
- **Preliminary evidence that hippocampal volumes in monkeys predict stress levels of adrenocorticotrophic hormone** *BIOLOGICAL PSYCHIATRY*
Lyons, D. M., Parker, K. J., Zeitzer, J. M., Buckmaster, C. L., Schatzberg, A. F.
2007; 62 (10): 1171-1174
- **Increasing length of wakefulness and modulation of hypocretin-1 in the wake-consolidated squirrel monkey** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*
Zeitzer, J. M., Buckmaster, C. L., Lyons, D. M., Mignot, E.
2007; 293 (4): R1736-R1742
- **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
- **Social stress-induced changes in gene expression profiles in primate prefrontal cortex** *61st Annual Convention of the Society-of-Biological-Psychiatry*
Lyons, D. M., Karssen, A. M., Li, J. Z., Her, S., Patel, P. D., Bunney, W. E., Jones, E. G., Watson, S. J., Akil, H., Meyers, R. M., Schatzberg, A. F.
ELSEVIER SCIENCE INC.2006: 194S-194S
- **Early experience and later resilience of the HPA axis in monkeys**
Lyons, D. M.
ELSEVIER SCIENCE INC.2006: 90S
- **Application of microarray technology in primate behavioral neuroscience research** *METHODS*
Karssen, A. M., Li, J. Z., Her, S., Patel, P. D., Meng, F., Evans, S. J., Vawter, M. P., Tomita, H., Choudary, P. V., Bunney, W. E., Jones, E. G., Watson, S. J., Akil, et al
2006; 38 (3): 227-234
- **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
- **Neural substrates of stress inoculation determined in vivo by brain imaging in monkeys** *44th Annual Meeting of the American-College-Neuropsychopharmacology*
Lyons, D. M., Parker, K. J., Katz, M., Buckmaster, C. L., Schatzberg, A. F.
NATURE PUBLISHING GROUP.2005: S59-S60
- **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
- **Mutations in squirrel monkey glucocorticoid receptor impair nuclear translocation** *JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY*
Her, S., Patel, P. D., Schatzberg, A. F., Lyons, D. M.
2005; 94 (4): 319-326

- **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
- **Locomotor-dependent and -independent components to hypocretin-1 (orexinA) regulation in sleep-wake consolidating monkeys** *JOURNAL OF PHYSIOLOGY-LONDON*
Zeitzer, J. M., Buckmaster, C. L., Lyons, D. M., Mignot, E.
2004; 557 (3): 1045-1053
- **Cognitive correlates of white matter growth and stress hormones in female squirrel monkey adults** *JOURNAL OF NEUROSCIENCE*
Lyons, D. M., Yang, C., Eliez, S., Reiss, A. L., Schatzberg, A. F.
2004; 24 (14): 3655-3662
- **Early maternal availability and prefrontal correlates of reward-related memory** *NEUROBIOLOGY OF LEARNING AND MEMORY*
Lyons, D. M., Schatzberg, A. F.
2003; 80 (2): 97-104
- **Functional brain imaging of olfactory processing in monkeys** *NEUROIMAGE*
Boyett-Anderson, J. M., Lyons, D. M., Reiss, A. L., Schatzberg, A. F., Menon, V.
2003; 20 (1): 257-264
- **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 hyperportisolism in major depression** *HORMONES AND BEHAVIOR*
Parker, K. J., Schatzberg, A. F., Lyons, D. M.
2003; 43 (1): 60-66
- **Experience-dependent asymmetric variation in primate prefrontal morphology** *BEHAVIOURAL BRAIN RESEARCH*
Lyons, D. M., Afarian, H., Schatzberg, A. F., Sawyer-Glover, A., Moseley, M. E.
2002; 136 (1): 51-59
- **Stress, depression, and inherited variation in primate hippocampal and prefrontal brain development.** *Psychopharmacology bulletin*
Lyons, D. M.
2002; 36 (1): 27-43
- **Effects of Emotion on Oxytocin, Prolactin, and ACTH in Women** *STRESS-THE INTERNATIONAL JOURNAL ON THE BIOLOGY OF STRESS*
Turner, R. A., Altemus, M., Yip, D. N., Kupferman, E., Fletcher, D., Bostrom, A., Lyons, D. M., Amico, J. A.
2002; 5 (4): 269-276
- **Early life stress and inherited variation in monkey hippocampal volumes** *ARCHIVES OF GENERAL PSYCHIATRY*
Lyons, D. M., Yang, C., Sawyer-Glover, A. M., Moseley, M. E., Schatzberg, A. F.
2001; 58 (12): 1145-1151
- **Frustrative nonreward and pituitary-adrenal activity in squirrel monkeys** *PHYSIOLOGY & BEHAVIOR*
Lyons, D. M., Fong, K. D., Schrieken, N., LEVINE, S.
2000; 71 (5): 559-563
- **Glucocorticoid and mineralocorticoid receptor mRNA expression in squirrel monkey brain** *JOURNAL OF PSYCHIATRIC RESEARCH*
Patel, P. D., Lopez, J. F., Lyons, D. M., Burke, S., Wallace, M., Schatzberg, A. F.
2000; 34 (6): 383-392
- **Stress-level cortisol treatment impairs inhibitory control of behavior in monkeys** *JOURNAL OF NEUROSCIENCE*
Lyons, D. M., Lopez, J. M., Yang, C., Schatzberg, A. F.
2000; 20 (20): 7816-7821
- **Mammary adenocarcinoma in a male squirrel monkey (Saimiri sciureus)** *VETERINARY PATHOLOGY*
Waggie, K. S., Tolwani, R. J., Lyons, D. M.
2000; 37 (5): 505-507

- **Early environmental regulation of glucocorticoid feedback sensitivity in young adult monkeys** *JOURNAL OF NEUROENDOCRINOLOGY*
Lyons, D. M., Yang, C., Mobley, B. W., Nickerson, J. T., Schatzberg, A. F.
2000; 12 (8): 723-728
- **Impaired transactivation of the glucocorticoid receptor cloned from the Guyanese squirrel monkey** *JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY*
Patel, P. D., Lyons, D. M., Zhang, Z. M., Ngo, H., Schatzberg, A. F.
2000; 72 (3-4): 115-123
- **Dilative cardiomyopathy leading to congestive heart failure in a male squirrel monkey (*Saimiri sciureus*)** *JOURNAL OF MEDICAL PRIMATOLOGY*
Tolwani, R. J., Waggle, K. S., GREEN, S. L., Tolwani, A. J., Lyons, D. M., Schatzberg, A. F.
2000; 29 (1): 42-45
- **Postnatal experiences and genetic effects on squirrel monkey social affinities and emotional distress** *HORMONES AND BEHAVIOR*
Lyons, D. M., Martel, F. L., LEVINE, S., Risch, N. J., Schatzberg, A. F.
1999; 36 (3): 266-275
- **Separation induced changes in squirrel monkey hypothalamic-pituitary-adrenal physiology resemble aspects of hypercortisolism in humans** *PSYCHONEUROENDOCRINOLOGY*
Lyons, D. M., Wang, O. J., Lindley, S. E., LEVINE, S., Kalin, N. H., Schatzberg, A. F.
1999; 24 (2): 131-142
- **Salivary cortisol levels in socially phobic adolescent girls** *DEPRESSION AND ANXIETY*
Martel, F. L., Hayward, C., Lyons, D. M., Sanborn, K., Varady, S., Schatzberg, A. F.
1999; 10 (1): 25-27
- **Annual physiological changes in individually housed squirrel monkeys (*Saimiri sciureus*)** *AMERICAN JOURNAL OF PRIMATOLOGY*
Schiml, P., Mendoza, S. P., Saltzman, W., Lyons, D. M., Mason, W. A.
1999; 47 (2): 93-103
- **Postnatal foraging demands alter adrenocortical activity and psychosocial development** *DEVELOPMENTAL PSYCHOBIOLOGY*
Lyons, D. M., Kim, S., Schatzberg, A. F., LEVINE, S.
1998; 32 (4): 285-291
- **Reactions of adult and immature squirrel monkeys to intergroup exposure** *ZOO BIOLOGY*
Aruguete, M. S., Lyons, D. M., Mason, W. A., Mendoza, S. P.
1998; 17 (6): 519-524
- **Psychobiological consequences of social relationships** *Conference of the New-York-Academy-of-Sciences on the Integrative Neurobiology of Affiliation*
LEVINE, S., Lyons, D. M., Schatzberg, A. F.
NEW YORK ACAD SCIENCES.1997: 210-218
- **Seasonality in squirrel monkeys (*Saimiri sciureus*), social facilitation by females** *PHYSIOLOGY & BEHAVIOR*
Schiml, P. A., Mendoza, S. P., Saltzman, W., Lyons, D. M., Mason, W. A.
1996; 60 (4): 1105-1113
- **SOCIAL EFFECTS AND CIRCADIAN-RHYTHMS IN SQUIRREL-MONKEY PITUITARY-ADRENAL ACTIVITY** *HORMONES AND BEHAVIOR*
Lyons, D. M., HA, C. M., LEVINE, S.
1995; 29 (2): 177-190
- **SOCIOREGULATORY EFFECTS ON SQUIRREL-MONKEY PITUITARY-ADRENAL ACTIVITY - A LONGITUDINAL ANALYSIS OF CORTISOL AND ACTH** *PSYCHONEUROENDOCRINOLOGY*
Lyons, D. M., LEVINE, S.
1994; 19 (3): 283-291
- **PSYCHOSOCIAL AND HORMONAL ASPECTS OF HIERARCHY FORMATION IN GROUPS OF MALE SQUIRREL-MONKEYS** *AMERICAN JOURNAL OF PRIMATOLOGY*
Lyons, D. M., Mendoza, S. P., Mason, W. A.
1994; 32 (2): 109-122

- **SOCIAL GROUPING TENDENCIES AND SEPARATION-INDUCED DISTRESS IN JUVENILE SHEEP AND GOATS** *DEVELOPMENTAL PSYCHOBIOLOGY*
LYONS, D. M., PRICE, E. O., MOBERG, G. P.
1993; 26 (5): 251-59
- **SEXUAL SEGREGATION IN SQUIRREL-MONKEYS (SAIMIRI-SCIUREUS) - A TRANSACTIONAL-ANALYSIS OF ADULT SOCIAL DYNAMICS** *JOURNAL OF COMPARATIVE PSYCHOLOGY*
Lyons, D. M., Mendoza, S. P., Mason, W. A.
1992; 106 (4): 323-330
- **DISTINCT IMMEDIATE AND PROLONGED EFFECTS OF SEPARATION ON PLASMA-CORTISOL IN ADULT FEMALE SQUIRREL-MONKEYS** *PSYCHOBIOLOGY*
Mendoza, S. P., Hennessy, M. B., Lyons, D. M.
1992; 20 (4): 300-306
- **SOCIOPHYSIOLOGY OF SQUIRREL-MONKEYS** *AMERICAN JOURNAL OF PRIMATOLOGY*
Mendoza, S. P., Lyons, D. M., Saltzman, W.
1991; 23 (1): 37-54