

Stanford

David Lyons

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

Psychiatry and Behavioral Sciences

Bio

ACADEMIC APPOINTMENTS

- Emeritus (Active) Professor, 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

2021-22

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

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)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **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

- **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. n., Shin, D. n., Kwon, S. H., Seo, J. B., Kang, D. n., Lee, B. D., Ryu, H. n., 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. n., 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. n., Schmitt, U. n., 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. n., Sudheimer, K. D., Hawkins, J. n., 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
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 - **Cup tool use by squirrel monkeys** *AMERICAN JOURNAL OF PRIMATOLOGY*
Buckmaster, C. L., Hyde, S. A., Parker, K. J., Lyons, D. M.
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 - **Stress inoculation modeled in mice** *TRANSLATIONAL PSYCHIATRY*
Brockhurst, J., Cheleuitte-Nieves, C., Buckmaster, C. L., Schatzberg, A. F., Lyons, D. M.
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 - **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*
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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*
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 - **Early Life Stress Inoculation Changes Brain Development**
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 - **Coping changes the brain** *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*
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 - **Coping changes the brain.** *Frontiers in behavioral neuroscience*
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 - **Prokineticin 2 is an endangering mediator of cerebral ischemic injury** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Time-course of cerebrospinal fluid histamine in the wake-consolidated squirrel monkey** *JOURNAL OF SLEEP RESEARCH*
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- **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.
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- **Hypothalamic-pituitary-adrenal axis physiology and cognitive control of behavior in stress inoculated monkeys.** *International journal of behavioral development*
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- **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.
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- **Animal Models of Early Life Stress: Implications for Understanding Resilience** *DEVELOPMENTAL PSYCHOBIOLOGY*
Lyons, D. M., Parker, K. J., Schatzberg, A. F.
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- **Stress coping stimulates hippocampal neurogenesis in adult monkeys** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **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., Landoldt, H., Lyons, D. M., Mignot, E.
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- **Developmental cascades linking stress inoculation, arousal regulation, and resilience** *FRONTIERS IN BEHAVIORAL NEUROSCIENCE*
Lyons, D. M., Parker, K. J., Katz, M., Schatzberg, A. F.
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- **Animal Models** *AMERICAN PSYCHIATRIC PUBLISHING TEXTBOOK OF PSYCHOPHARMACOLOGY, 4TH EDITION*
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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.
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Lyons, D. M., Parker, K. J., Zeitzer, J. M., Buckmaster, C. L., Schatzberg, A. F.
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- **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.
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- **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.
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Lyons, D. M., Parker, K. J.
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- **Social stress-related behavior affects hippocampal cell proliferation in mice** *PHYSIOLOGY & BEHAVIOR*
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- **Neural substrates of stress inoculation determined in vivo by brain imaging in monkeys** *44th Annual Meeting of the American-College-Neuropsychopharmacology*
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- **Locomotor-dependent and -independent components to hypocretin-1 (orexinA) regulation in sleep-wake consolidating monkeys** *JOURNAL OF PHYSIOLOGY-LONDON*
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- **Effects of Emotion on Oxytocin, Prolactin, and ACTH in Women** *STRESS-THE INTERNATIONAL JOURNAL ON THE BIOLOGY OF STRESS*
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- **Early life stress and inherited variation in monkey hippocampal volumes** *ARCHIVES OF GENERAL PSYCHIATRY*
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- **Dilative cardiomyopathy leading to congestive heart failure in a male squirrel monkey (*Saimiri sciureus*)** *JOURNAL OF MEDICAL PRIMATOLOGY*
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