

Biological & Psychosocial Aspects of Stress Cross Cutting Theme Group

Description: This theme area includes members from all four of our graduate programs, Clinical Science, Cognitive Science, Integrative Neuroscience, and Social & Health Psychology who study the determinants and effects of stress in human and animal models.

Members:

Brenda Anderson

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Patricia Whitaker

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Representative Publications and Conference Presentations:

Anderson Lab:

D.J. Kim, A.S. Lee, A.A. Yttredahl, R. Gómez-Rodríguez, B.J. Anderson (2017). Repeated threat (without direct harm) alters metabolic capacity in select regions that drive defensive behavior, *Neuroscience*, 353,106-118

Kim, D.J., St. Louis, N., Molaro, R.A., Hudson, G.T., Chorley, R.C., and Anderson, B.J. (2017). Repeated unpredictable threats without harm impair spatial working memory in the Barnes maze, *Neurobiology of Learning and Memory*, 137:92-100.

Kim, D.J. and Anderson, B. J. (2015). Repeated threat (without harm) in a living environment potentiates defensive behavior, *Behavioral Brain Research*, 279: 31-40.

Tata, D.A. and Anderson, B.J. (2009). The effects of chronic glucocorticoid exposure on dendritic length, synapse numbers and glial volume in animal models: implications for hippocampal volume reductions in depression. *Physiology and Behavior*, 99(2), 186-193.

Tata, D.A., Marciano, V., and Anderson, B.J. (2006) Synapse loss from chronically elevated glucocorticoids: Relationship to neuropil volume, and cell number in hippocampal CA3, *J. Comparative Neurology*, 498, 363-374.

Coburn-Litvak, P.S., Tata, D.A., Gorby, H.E., McCloskey, D.P., Richardson, G., and Anderson, B.J. (2004). Chronic corticosterone affects brain weight, and mitochondrial, but not glial volume fraction in area CA3, *Neuroscience*, 124:429-436.

Bernard lab:

Dagan, O., Asok, A., Steele, H., Steele, M., & Bernard, K. (in press). Attachment security moderates the link between adverse childhood experiences and cellular aging. *Development and Psychopathology*. doi: 10.1017/S0954579417001705.

Bernard, K., Frost, A., Bennett, C. B., & Lindhiem, O. (2017). Maltreatment and diurnal cortisol regulation: A meta-analysis. *Psychoneuroendocrinology*, 78, 57-67. doi: 10.1016/j.psyneuen.2017.01.005.

Bernard, K., Zwerling, J., & Dozier, M. (2015). Effects of early adversity on young children's diurnal cortisol rhythms and externalizing behavior. *Developmental Psychobiology*, 57, 935-947. doi: 10.1002/dev.21324.

Bernard, K., Dozier, M., Bick, J., & Gordon, M. K. (2015). Intervening to enhance cortisol regulation among children at risk for neglect: Results of a randomized clinical trial. *Development and Psychopathology*, 27, 829-841.

Bernard, K., Hostinar, C., & Dozier, M. (2015). Intervention effects on diurnal cortisol rhythms of CPS-referred infants persist into early childhood: Preschool follow-up results of a randomized clinical trial. *JAMA Pediatrics*, 169, 112-119. doi: 10.1001/jamapediatrics.2014.2369.

Bernard, K., Lind, T., & Dozier, M. (2014). Neurobiological consequences of neglect and abuse. In J. Korbin & R. Krugman (Eds.), *Handbook of child maltreatment* (pp. 205-223). New York: Springer.

Asok, A., Bernard, K., Roth, T., Rosen, J., & Dozier, M. (2013). Parental responsiveness moderates the association between early-life stress and reduced telomere length. *Development and Psychopathology*, 25, 577-585. doi: 10.1017/S0954579413000011

Bernard, K., Butzin-Dozier, Z., Rittenhouse, J., & Dozier, M. (2010). Young children living with neglecting birth parents show more blunted daytime patterns of cortisol production than children in foster care and comparison children. *Archives of Pediatrics and Adolescent Medicine*, 164, 438-443. doi: 10.1001/archpediatrics.2010.54.

Canli Lab:

D'Agostino, A.E., Kattan, D.A., and Canli, T. (2018). An fMRI Study of Loneliness in Younger and Older Adults. *Social Neuroscience*. DOI: 10.1080/17470919.2018.1445027. PMID: 29471719

Fogelman, N., and Canli, T. (2018). Early Life Stress and cortisol: A Meta-Analysis. *Hormones and Behavior*, 98, 63-76. DOI: 10.1016/j.yhbeh.2017.12.014. PMID: 29289660

Canli, T., Yu, L., Yu, X., Zhao, H., Fleischman, D., Wilson, R.S., De Jager, P.L., Bennett, D.A. (2018). Loneliness 5 years ante-mortem is associated with disease-related differential gene expression in postmortem dorsolateral prefrontal cortex. *Translational Psychiatry*, 8(1):2. DOI: 10.1038/s41398-017-0086-2.

T. Canli (2017). APA Science Brief: How loneliness can make you sick.
<http://www.apa.org/science/about/psa/2017/09/loneliness-sick.aspx>

Canli, T., Wen, R., Wang, X., Mikhailik, A., Yu, L., Fleischman, D., Wilson, R.S., Bennett, D.A. (2016). Differential transcriptome expression in human nucleus accumbens as a function of loneliness. *Molecular Psychiatry*. DOI: 10.1038/mp.2016.186.

Fogelman, N., Mikhailik, A., Mueller-Alcazar, A., & Canli, T. (2016). Stressing over anxiety: A novel interaction of 5-HTTLPR genotype and anxiety-related phenotypes in older adults. *Psychoneuroendocrinology*, 71, 36-42. PMID: 27235638 PMCID: PMC4955748 [Available on 2017-09-01]; DOI: 10.1016/j.psyneuen.2016.05.012

Fogelman, N., and Canli, T. (2015). "Purpose in Life" as a psychosocial resource in healthy aging: An examination of cortisol baseline levels and response to the Trier Social Stress Test. *NPJ (Nature Partner Journal) Aging and Mechanisms of Disease* 09/2015; 1:15006. DOI: 10.1038/npjamd.2015.6.

Lobel Lab:

Nicoloro-SantaBarbara, J., Rosenthal, L., Auerbach, M., Kocis, C., Busso, C., & Lobel, M. (2017). Patient-provider communication predicts lower distress and better self-care in pregnancy. *Social Science and Medicine*, 190, 133-140.
<https://doi.org/10.1016/j.socscimed.2017.08.011>

Genoff-Garzon, M. C., Rubin, L. R., Lobel, M., Stelling, J., & Pastore, L. M. (2018). Review of patient decision-making factors and attitudes regarding preimplantation genetic testing. *Clinical Genetics*, 94 (1), 22-42. <https://doi.org/10.1111/cge.13174>

Araiza, A. M. & Lobel, M. (2018). Stress and eating: Definitions, findings, explanations, and implications. *Social and Personality Psychology Compass*, e12378.
<https://doi.org/10.1111/spc3.12378>

Lobel, M. & Ibrahim, S. M. (2018). Emotions and mental health during pregnancy and postpartum. *Women's Reproductive Health*, 5 (1), 13-19.
<https://doi.org/10.1080/23293691.2018.1429378>

Yusufov, M., Nicoloro-SantaBarbara, J., Grey, N. E., Moyer, A., & Lobel, M. (2018). Students in distress: Meta-analytic evaluation of stress reduction interventions for undergraduate and graduate students. *International Journal of Stress Management*.
<http://doi.org/10.1037/str0000099>

Nicoloro-SantaBarbara, J., Busso, C., Moyer, A., & Lobel, M. (2018). Just relax and you'll get pregnant? Meta-Analysis examining women's emotional distress and the outcome of assisted reproductive technology. *Social Science and Medicine*, 213, 54-62. <https://doi.org/10.1016/j.socscimed.2018.06.033>

Cizmeli, C., Lobel, M., Saftlas, A., & Harland, K. (2018). Stability and change in types of intimate partner violence across pre-pregnancy, pregnancy, and the postpartum period. *Women's Reproductive Health*, 5 (3), 153-169. <https://doi.org/10.1080/23293691.2018.1490084>.

Preis, H., Lobel, M., & Benyamini, Y. (In press). Between expectancy and experience: Testing a model of childbirth satisfaction. *Psychology of Women Quarterly*. <https://doi.org/10.1177/0361684318779537>

Rosenthal, L. & Lobel, M. (In press). Gendered racism and the sexual and reproductive health of Black and Latina women. *Ethnicity and Health*. [10.1080/13557858.2018.1439896](https://doi.org/10.1080/13557858.2018.1439896)

London Lab

Dyar, C., & London, B. (2018). Longitudinal Examination of a Bisexual-Specific Minority Stress Process Among Bisexual Cisgender Women. *Psychology of Women Quarterly*, 42(3), 342–360. <https://doi.org/10.1177/0361684318768233>

Lytle, A., Dyar, C., Levy, S.R., & London, B. (2017). Contact with Bisexual Individuals Reduces Binegativity among Heterosexuals and Lesbian Women and Gay Men. *European Journal of Social Psychology*, 47(5), 580-599.

Dyar, C., Feinstein, B., Eaton, N., & London, B. (2016). The Mediating Roles of Rejection Sensitivity and Proximal Stress in the Relationship between Discrimination and Internalizing Psychopathology among Sexual Minority Women. *Archives of Sexual Behavior*. Doi: 10.1007/s10508-016-0869-1.

Feinstein, B., Dyar, C., & London, B. (2016). Are Outness and Community Involvement Risk or Protective Factors for Alcohol and Drug Abuse among Sexual Minority Women? *Archives of Sexual Behavior*, 46(5), 1411-1423. Doi: 10.1007/s10508-016-0790-7.

Clark, S., Dyar, C., Maung-Gaona, N., & London, B. (2016). Psychosocial Pathways to STEM Engagement among Graduate Students in the Life Sciences. *CBE--Life Sciences Education (LSE)*, 15(3), pii: ar45. doi: 10.1187/cbe.16-01-0036.

Rosenthal, L., Levy, S.R., London, B., & Lewis, M.A. (2016). Polyculturalism among undergraduates at diverse universities: Associations through intergroup anxiety with academic and alcohol outcomes, 16(1), 193-226. *Analyses of Social Issues and Public Policy*. DOI: 10.1111/asap.12121

Dyar, C., Feinstein, B.A., Eaton, N.R., & London, B. (2016). Development and initial validation of the sexual minority women rejection sensitivity scale, 40(1), 120-137. *Psychology of Women Quarterly*. DOI: 10.1177/0361684315608843

Dyar, C., Feinstein, B.A., & London, B. (2014). Dimensions of sexual identity and minority stress among bisexual women: The role of partner gender. *Psychology of Sexual Orientation and Gender Diversity*, 1(4), 441-451. doi:10.1037/sgd0000063

Ahlqvist, S., London, B., & Rosenthal, L. (2013). Unstable identity compatibility: How gender rejection sensitivity undermines the success of women in science, technology, engineering, and mathematics fields. *Psychological Science*, 24(9), 1644-1652. doi: 10.1177/0956797613476048

London, B., Downey, G., Romero-Canyas, R., Rattan, A., & Tyson, D. (2012). Gender Rejection Sensitivity and academic self-silencing in women. *Journal of Personality and Social Psychology*, 102 (5), 961-979. DOI: 10.1037/a0026615.

London, B., Rosenthal, L., & Gonzalez, A. (2011) Assessing the role of gender rejection sensitivity, identity and support on the academic engagement of women in non-traditional fields using experience sampling methods. *Journal of Social Issues*, 67 (3), 510-530. DOI: 10.1111/j.1540-4560.2011.01712.x.

London, B., Downey, G., Bonica, C., & Paltin, I. (2007). Social causes and consequences of rejection sensitivity in adolescents. *Journal of Research on Adolescence*, 17(3), 481-506. DOI: 10.1111/j.1532-7795.2007.00531.x.

Moyer Lab

Nicoloro-SantaBarbara, J., Busso, C., & Moyer, A., & Lobel, M. (2018). Just relax and you'll get pregnant? Meta-analysis examining women's emotional distress and the outcome of assisted reproductive technology. *Social Science and Medicine*, 213, 54-62.

Yusufov, M., Nicoloro-SantaBarbara, J., Grey, N. E., Moyer, A., & Lobel, M. (2018). Meta-analytic evaluation of stress reduction interventions for undergraduates and graduate students. *International Journal of Stress Management*. Advance online publication. <http://dx.doi.org/10.1037/str0000099>

Schneider, S., Moyer, A., Knapp, S. K., Sohl, S. J., Cannella, D., & Targhetta, V. (2010). Pre-intervention distress moderates the efficacy of psychosocial treatment for cancer patients: A meta-analysis. *Journal of Behavioral Medicine*, 33, 1-14.

Hamilton, J. G., Lobel, M., & Moyer, A. (2009). Emotional distress following genetic testing for hereditary breast and ovarian cancer: A meta-analytic review. *Health Psychology*, 28, 510-518.

Stroud, C. B., Davila, J., & Moyer, A. (2008). The relationship between stress and depression in first onsets versus recurrences: A meta-analytic review. *Journal of Abnormal Psychology*, 117, 206-213.

Tuman, M., & Moyer, A. (2017, March). *The efficacy of internet-based interventions for stress management: A meta-analysis*. Poster presented at the annual scientific sessions of the Society of Behavioral Medicine, San Diego, CA.

Marziliano, M., Tuman, M., & Moyer, A. (2016, October). *The relationship between post-traumatic stress and post-traumatic growth in cancer patients and survivors: A systematic review and meta-analysis*. Paper presented at the 18th International Psycho Oncology Society Congress, Dublin, Ireland.

Parsons Lab:

Lee, J., Russo, A. S., & Parsons, R. G. (2018). Facilitation of fear learning by prior and subsequent fear conditioning. *Behavioural brain research*, 347, 61-68.
doi:10.1016/j.bbr.2018.03.008

Parsons, R. G. (2018). Behavioral and neural mechanisms by which prior experience impacts subsequent learning. *Neurobiology of learning and memory*, 154, 22-29.
doi:10.1016/j.nlm.2017.11.008

Voulo, M. E., & Parsons, R. G. (2017). Response-specific sex difference in the retention of fear extinction. *Learning & memory*, 24, 245-251. doi:10.1101/lm.045641.117

Russo, A. S., & Parsons, R. G. (2017). Acoustic startle response in rats predicts inter-individual variation in fear extinction. *Neurobiology of learning and memory*, 139, 157-164.
doi:10.1016/j.nlm.2017.01.008

Barfield, E. T., Gerber, K. J., Zimmermann, K. S., Ressler, K. J., Parsons, R. G., & Gourley, S. L. (2017). Regulation of actions and habits by ventral hippocampal trkB and adolescent corticosteroid exposure. *PLoS Biol*, 15, e2003000. doi:10.1371/journal.pbio.2003000

Parsons, R. G., & Ressler, K. J. (2013). Implications of memory modulation for post-traumatic stress and fear disorders. *Nature neuroscience*, 16, 146-153. doi:10.1038/nn.3296

Scott Lab:

Neupert, S. D., Neubauer, A. B., Scott, S. B., Hyun, J., & Sliwinski, M. J. (2018). Back to the future: Examining age differences in processes before stressor exposure. *Journals of Gerontology: Psychological Sciences*. Advance online publication.
<https://doi.org/10.1093/geronb/gby074>.

Scott, S. B., Kim, J., Smyth, J. M., Almeida, D. A., & Sliwinski, M. J. (2018). Additive effects of forecasted and reported stressors on negative affect. *Journals of Gerontology: Psychological Sciences*. Advance online publication. <https://doi.org/10.1093/geronb/gby068>

Scott, S. B., Munoz, E. D., Mogle, J. A., Gamaldo, A. A., Smyth, J. S., Almeida, D. M., & Sliwinski, M. J. (2018). Psychosocial neighborhood context prolongs emotional responses to everyday stressors. *Social Science & Medicine*, 200, 262-270.
<https://doi.org/10.1016/j.socscimed.2017.11.010>

Smyth, J. S., Sliwinski, M. J., Zawadzki, M., Scott, S. B., Conroy, D., Lanza, S., Stawski, R., Stoney, C. M., Buxton, O., Kim, J., Marcusson-Clavertz, D., Sciamanna, C., Green, P. M., Nielsen, L., & Almeida, D. M. (2018). Everyday stress response targets in the science of behavior change. *Behavioral Research and Therapy*, 101, 20-29.
<https://doi.org/10.1016/j.brat.2017.09.009>

Scott, S. B., Ram, N., Smyth, J. S., Almeida, D. M., & Sliwinski, M. J. (2017). Age differences in negative emotional responses to daily stressors depend on time since event. *Developmental Psychology, 53*, 177-190. doi: 10.1037/dev0000257 PMC5198895.

Scott, S. B., Sliwinski, M. J., Mogle, J. A., & Almeida, D. M. (2014). Age, stress, and emotional complexity: Results from two studies of daily experiences. *Psychology and Aging, 29*, 577-587. doi:10.1037/a0037282.

Nater, U. M., Hoppmann, C. A., & Scott, S. B. (2013). Diurnal profiles of salivary alpha amylase and cortisol change across the adult lifespan: A time-sampling approach. *Psychoneuroendocrinology, 38*, 3167-3171. <http://dx.doi.org/10.1016/j.psyneuen.2013.09.008>.

Scott, S. B., Bergeman, C. S., Jackson, B. J., & Pitzer, L. (2013). Understanding global perceptions of stress in adulthood through tree-based exploratory data mining. In J. J. McArdle & G. Rischard (Eds.), *Contemporary issues in exploratory data mining* (pp. 371-404). New York, NY: Routledge.

Scott, S. B., Poulin, M. J., & Silver, R. C. (2012). A lifespan perspective on terrorism: Age differences in trajectories of response to the September 11, 2001 attacks. *Developmental Psychology, 49*, 986-998. doi: 10.1037/a0028916.