

# **Serge Campeau**

## **Curriculum Vitae**

### **Personal Details**

Date of Birth: July 13, 1962  
Nationality: Canadian, American (Naturalized)  
Residential Status: Naturalized U.S.A. citizen

### **Professional Address**

Department of Psychology and Neuroscience and Center for Neuroscience  
Muenzinger Bldg, UCB 345  
University of Colorado  
Boulder, CO 80309-0345  
Phone: 303 492-5693 E-mail: serge.campeau@colorado.edu

### **Education**

- 1990-1993** Ph.D., Psychology (Behavioral Neuroscience), Yale University, New Haven, CT  
**1987-1990** M. Sc., Psychology (Behavioral Neuroscience), Yale University, New Haven, CT  
**1984-1987** B.Sc. (Honors), Psychology, McGill University, Montreal, Quebec, Canada  
**1983-1984** Canada/USA exchange fellow, State University of New York, Stony Brook, NY  
**1982-1983** Ecole de Psychologie, Laval University, Quebec City, Quebec, Canada

### **Experience**

- 2015 –** Director, Interdepartmental Neuroscience PhD Program,  
University of Colorado, Boulder
- 2014 –** Professor, Department of Psychology and Neuroscience and Center for Neuroscience,  
University of Colorado, Boulder
- 2006 – 2014** Associate Professor, Department of Psychology and Neuroscience and Center for Neuroscience,  
University of Colorado, Boulder
- 1999 – 2006** Assistant Professor, Department of Psychology and Center for Neuroscience,  
University of Colorado, Boulder
- 1996 – 1999** Senior research scientist, Mental Health Research Institute,  
Department of Psychiatry, University of Michigan
- 1993 – 1996** Medical Research Council of Canada postdoctoral trainee, Mental Health Research Institute,  
Department of Psychiatry, University of Michigan
- 1988 – 1991** Assistant instructor,  
Department of Psychology, Yale University
- 1984 – 1987** Research Assistant for Drs. Norman White and Richard Hirsh,  
Psychology Department, McGill University

1983 – 1984 Research Assistant for Dr. Charles Doering,  
Department of Endocrinology, SUNY Stony Brook Medical School

## **Research Funding**

### **Funding: Principal Investigator:**

### **Pending funding: Principal Investigator:**

National Institute of Mental Health (NIMH)  
*Posterior Hypothalamic Contribution to Stress Adaptation*  
R21, \$275,000 direct costs,  
BNRS Study Section October 2023, 20 impact score, 3.0 percentile  
08/2024 – 07/2026

### **Funding: Completed:**

Innovative Seed Grant Program, Research Innovation Office, University of Colorado Boulder  
*Exploratory determination of molecular modifications associated with stress habituation*  
\$46,063 direct costs,  
07/2017 – 12/2018

National Institute of Mental Health (NIMH)  
*Habituation to Repeated Stress*  
R01, \$1,125,000 direct costs,  
01/2008 – 01/2014

Office of the Vice Chancellor for Research, University of Colorado  
Faculty Conference Award for a meeting titled:  
2011 Meeting of the Front Range Neuroscience Group, Fort Collins Marriott Hotel  
\$936  
Dec. 7, 2011

Office of the Vice Chancellor for Research, University of Colorado  
Faculty Conference Award for a meeting titled:  
2010 Meeting of the Front Range Neuroscience Group, Fort Collins Hilton  
\$2,000  
Dec. 9, 2010

National Institute of Mental Health (NIMH)  
*Phenotypic and Functional Determination of Central Extended Amygdala Cell Groups*  
R03 (Heidi Day, PI), \$100,000 direct costs,  
06/2009 – 05/2011

National Institute of Mental Health (NIMH)  
*The role of the central amygdala and BST in stress*  
R01 (Heidi Day, PI), \$810,000 direct costs,  
01/2005 – 12/2010

National Institute of Neurological Disorders and Stroke (NINDS)  
*Physical activity and adaptation to stress*  
R03, \$100,000 direct costs,  
07/2006 – 06/2008

National Alliance for Research on Schizophrenia and Depression (NARSAD) Young Investigator Award  
*Modulation of Fear and Anxiety responses by Voluntary Exercise*  
Heidi Day, PI, \$60,000 direct costs,  
07/2004 – 06/2007

National Institute of Mental Health (NIMH)  
*Neural basis of processive stress*  
K02, \$425,430 total costs,  
07/2003 – 06/2008

National Institute of Mental Health (NIMH)  
*Neural basis of processive stress*  
R01, \$950,000 direct costs,  
06/2002 – 04/2008

National Alliance for Research on Schizophrenia and Depression (NARSAD) Young Investigator Award  
*Limbic circuits associated with psychological stress*  
\$60,000 direct costs,  
07/2000 – 06/2002

National Institute of Mental Health (NIMH)  
*Exercise, Stress and Immunity: Physiological mechanisms*  
R01 (Monika Fleshner, PI), \$875,000 direct costs,  
11/2000 – 10/2005

National Institute of Mental Health (NIMH)  
*Corticosteroid Dependent Mechanisms of Stress Adaptation*  
R01 (Robert Spencer, PI), \$1,025,000 direct costs,  
07/2001 – 06/2006

National Institute of Mental Health (NIMH)  
*Neural analysis of habituation to psychological stress*  
R03 (B/START), \$25,000 direct costs,  
08/2000 – 07/2001

Council on Research and Creative Work Junior Faculty Development Award, University of Colorado  
*Neural analysis of habituation to psychological stress*  
\$5,000 direct costs,  
06/2000 – 06/2001

### **Awards and Honors**

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|-----------|---|
| 2015      | Departmental Service Award, Department of Psychology & Neuroscience, University of Colorado, Boulder.   |
| 2005      | Best Graduate Student (Sarah K. Sasse) Poster presentation chosen at Annual meeting of the Rocky Mountain Neuroscience Group (RMNG), Denver UCHSC, CO (May 2005).         |
| 2004      | Best Graduate Student (Sarah K. Sasse) Abstract chosen for oral presentation at Annual meeting of the Front Range Neuroscience Group (FRNG), Fort Collins, CO (Nov 2004). |
| 2004      | Best Undergraduate Student (Michael Patz) Poster presentation chosen at Annual meeting of the Front Range Neuroscience Group (FRNG), Fort Collins, CO (Nov 2004).         |
| 2001      | Finalist for Whitehall Foundation (Florida) full grant proposal (declined because of NIMH R01 award).   |
| 2000      | Junior Faculty Award recipient, University of Colorado, Boulder.  |
| 2000      | Young Investigator Award recipient, NARSAD.   |
| 2000      | Finalist for EJLB Foundation (Montreal, Canada) Fellowship.   |
| 1993-1996 | Medical Research Council of Canada postdoctoral Fellow.   |
| 1986      | Natural Sciences and Engineering Research Council (NSERC) of Canada Summer Research Award.  |
| 1985      | McGill University, Dean of the Faculty of Science Award for Academic Excellence.  |
| 1982-1983 | Canada-United States Student Exchange Program Award, tenured at SUNY Stony Brook.   |

## **Professional Development**

Workshop in Diversity, Equity and Inclusion: The Power of Language, March 2022.

Workshop in Diversity, Equity and Inclusion: Understanding “My” Intersecting Identities & Power Structures, April 2022.

## **Publications**

### **Published Refereed Articles:**

- Campeau, S.**, McNulty, C., Stanley, J.T., Gerber, A.N., Sasse, S.K., & Dowell, R.D. (2023). Determination of steady-state transcriptomic modifications associated with repeated homotypic stress in the rat rostral posterior hypothalamic region. *Frontiers in Neuroscience, Translational Neuroscience Section*. 17:1173699. doi: 10.3389/fnins.2023.1173699
- Newsom, R.J., & Garcia, R.J., Stafford, J., Osterlund, C., O’Neill, C.E., Day, H.E.W., & **Campeau, S.** (2020). Remote CB1 receptor antagonist administration reveals multiple sites of tonic and phasic endocannabinoid neuroendocrine regulation. *Psychoneuroendocrinology*, 113: 104549.
- Newsom, R.J., & **Campeau, S.** (2020). Endocannabinoid signaling as an intrinsic component of the circuits mediating adaptive responses to repeated stress exposure in adult male Sprague Dawley rats. *Stress: The International Journal on the Biology of Stress*, 23: 174-189.
- Aslam, M., Feleder, C., Newsom, R.J., **Campeau, S.** & Musteata, F.M. (2019). In vivo monitoring of rat brain endocannabinoids using solid phase microextraction. *Bioanalysis*, 11(16): 1523-1534.
- Marker, R.J., **Campeau, S.**, Maluf, K.S. (2017). Psychosocial stress alters the strength of reticulospinal input to the human upper trapezius muscle. *Journal of Neurophysiology*, 117: 457-466.
- Campeau, S.** (2016). Apparatus and general methods for exposing rats to audiogenic stress. *Bio-protocol*. 6(21) #1994.
- Grace, P.M., Strand, K.A., Galer, E.L., Urban, D.J., Wang, X., Baratta, M.V., Fabisiak, T.J., Anderson, N.D., Cheng, K., Greene, L.I., Berkelhammer, D., Zhang, Y., Ellis, A.L., Yin, H., **Campeau, S.**, Rice, K.C., Roth, B.L., Maier, S.F. & Watkins, L.R. (2016). A two-hit challenge creates persistent neuropathic pain via sustained spinal neuroinflammation: morphine as contributor to chronic pain in males. *Proceedings of the National Academy of Sciences*, 113(24): E3441-50.
- Nyhuis, T.J., Masini, C.V., Taufer, K.L., Day, H.E.W., & **Campeau, S.** (2016). Reversible inactivation of the rostral raphe pallidus attenuates the acute autonomic response but not habituation to repeated loud noise exposures in rats. *Stress: The International Journal on the Biology of Stress*, 19(2): 248-259.
- O’Neill, C., Newsom, R., Stafford, J., Scott, T., Archuleta, S., Levis, S.C., Spencer, R.L., **Campeau, S.**, & Bachtell, R. (2016). Adolescent caffeine consumption increases adulthood anxiety-related behavior and modifies neuroendocrine signaling. *Psychoneuroendocrinology*, 67: 40-50.
- Herrera, J.J., Fedynska, S., Ghasem, P.R., Wieman, T., Clark, P.J., Gray, N., Loetz, E., **Campeau, S.**, Fleshner, M., Greenwood, B.N. (2016). Neurochemical and behavioral indices of exercise reward are independent of exercise controllability. *European Journal of Neuroscience*, 43(9): 1190-1202.
- Nyhuis, T.J., Masini, C.V., Day, H.E.W., & **Campeau, S.** (2016). Evidence for the integration of stress-related signals by the rostral posterior hypothalamic nucleus in the regulation of acute and repeated stress-evoked hypothalamo-pituitary-adrenal response in rats. *Journal of Neuroscience*, 36(3): 795-805.
- Radley, J., Morilak, D., Viau, V., & **Campeau, S.** (2015). Chronic stress and brain plasticity: Mechanisms underlying adaptive and maladaptive changes and implications for stress-related CNS disorders. *Neuroscience & Biobehavioral Reviews*, 58: 79-91.
- Mika, A., Bouchet, C.A., Bunker, P.L., Hellwinkel, J.E., Spence, K.G., Day, H.E.W., **Campeau, S.**, Fleshner, M., & Greenwood, B.N. (2015). Voluntary exercise during extinction of auditory fear conditioning reduces the relapse of fear associated with potentiated activity of striatal direct pathway neurons. *Neurobiology of Learning and Memory*, 125: 224-235.
- Babb, J.A., Masini, C.V., Day, H.E.W., & **Campeau, S.** (2014). Habituation of hypothalamic-pituitary-adrenocortical axis hormones to repeated stress and subsequent heterotypic stressor exposure in male and female rats. *Stress*, 17(3): 224-234.
- Sasse, S.K., Nyhuis, T.J., Masini, C.V., Day, H.E.W., & **Campeau, S.** (2013). Central gene expression changes associated with enhanced neuroendocrine and autonomic response habituation to repeated noise stress after voluntary wheel running in rats. *Frontiers in Physiology: Clinical and Translational Physiology*. Volume 4: Article 341.
- Babb, J.A., Masini, C.V., Day, H.E.W., & **Campeau, S.** (2013). Stressor-specific effects of sex on HPA axis hormones and activation of stress-related neurocircuitry. *Stress*, 16(6): 664-677.

- Babb, J.A., Masini, C.V., Day, H.E.W., & **Campeau, S.** (2013). Sex differences in activated CRF neurons within stress-related neurocircuitry and HPA axis hormones following restraint in rats. *Neuroscience*, *234*: 40-52.
- Masini, C.V., Babb, J.A., Nyhuis, T.J., Day, H.E.W., & **Campeau, S.** (2012). Auditory cortex lesions do not disrupt habituation of HPA axis responses to repeated noise stress. *Brain Research*, *1443*: 18-26.
- Newsom, R.J., Osterlund, C., Masini, C.V., Day, H.E.W., Spencer, R.L., & **Campeau, S.** (2012). Cannabinoid receptor type 1 antagonism significantly modulates basal and loud noise induced neural and HPA axis responses in male Sprague Dawley rats. *Neuroscience*, *204*: 64-73.
- Masini, C.V., Day, H.E.W., Gray, T., Crema, L.M., Nyhuis, T.J., Babb, J.A., & **Campeau, S.** (2012). Evidence for a lack of phasic inhibitory properties of habituated stressors on HPA axis responses in rats. *Physiology & Behavior*, *105*: 568-575.
- Campeau, S.**, Liberzon, I. Morilak, D., Ressler, K. (2011). Stress modulation of cognitive and affective processes. *Stress*, *14*(5): 503-519.
- Barrientos, R.M., Frank, M.G., Crysdale, N.Y., Chapman, T.R., Arhendsen, J., Day, H.E.W., **Campeau, S.**, Watkins, L.R., Patterson, S.L., Maier, S.F. (2011). Little exercise, big effects: Reversing aging and infection-induced memory deficits, and underlying processes. *Journal of Neuroscience*, *31*: 11578-11586.
- Masini, C.V., Nyhuis, T.J., Sasse, S.K., Day, H.E.W., & **Campeau, S.** (2011). Effects of voluntary wheel running on heart rate, body temperature, and locomotor activity in response to acute and repeated stressor exposures in rats. *Stress*, *14*(3): 324-334.
- Spannuth, B.M., Evans, A.K., Lukkes, J.L., Hale, M.W., **Campeau, S.**, & Lowry, C.A. (2011). Investigation of a central nucleus of the amygdala/dorsal raphe nucleus serotonergic circuit implicated in fear-potentiated startle. *Neuroscience*, *179*: 104-119.
- Nyhuis, T.J., Sasse, S.K., Masini, C.V., Day, H.E.W., & **Campeau, S.** (2010). Physical activity, but not environmental complexity, facilitates HPA axis response habituation to repeated audiogenic stress despite neurotrophin mRNA regulation in both conditions. *Brain Research*, *1362*: 68-77.
- Nyhuis, T.J., Sasse, S.K., Masini, C.V., Day, H.E.W., & **Campeau, S.** (2010). Lack of contextual modulation of habituated neuroendocrine responses to repeated audiogenic stress. *Behavioral Neuroscience*, *124*(6): 810-820.
- Campeau, S.**, Nyhuis, T., Sasse, S., Kryskow, E., Herlihy, L., Masini, C., Babb, J., Greenwood, B., Fleshner, M., & Day, H.E.W. (2010). Hypothalamic pituitary adrenal axis responses to low intensity stressors are reduced following voluntary wheel running in rats. *Journal of Neuroendocrinology*, *22*: 872-888.
- Campeau, S.**, Nyhuis, T.J., Kryskow, E.M., Masini, C.V., Babb, J.A., Sasse, S.K., Greenwood, B., Fleshner, M., & Day, H.E.W. (2010). Stress rapidly increases alpha-1d adrenergic receptor mRNA in the rat dentate gyrus. *Brain Research*, *1323*: 109-118.
- Masini, C.V., Garcia, R.J., Sasse, S.K., Nyhuis, T.S., Day, H.E.W., & **Campeau, S.** (2010). Accessory and main olfactory systems influences on predator odor-induced behavioral and endocrine stress responses in rats. *Behavioral Brain Research*, *207*: 70-77.
- Baratta, M.V., Zarza, C.M., Gomez, D.M., **Campeau, S.**, Watkins, L.R., & Maier, S.F. (2009). Selective activation of dorsal raphe nucleus-projecting neurons in the ventral medial prefrontal cortex by controllable stress. *European Journal of Neuroscience*, *30*: 1111-1116.
- Masini, C.V., Sasse, S.K., Garcia, R.J., Nyhuis, T.J., Day, H.E.W., & **Campeau, S.** (2009). Disruption of neuroendocrine stress responses to acute ferret odor by medial, but not central amygdala lesions in rats. *Brain Research*, *1288*: 79-87.
- Day, H.E.W., Masini, C.V., & **Campeau, S.** (2009). Reversible inactivation of the auditory thalamus disrupts HPA axis habituation to repeated loud noise stress exposures. *Brain Research*, *1276*:123-130.
- Weinberg, M.S., Bhatt, A.P., Girotti, M., Masini, C.V., Day, H.E.W., **Campeau, S.** & Spencer, R.L. (2009). Repeated ferret odor exposure induces different temporal patterns of same-stressor habituation and novel-stressor sensitization in both HPA-axis activity and forebrain c-fos expression in the rat. *Endocrinology*, *150*:749-761.
- Christianson, J.P., Benison, A.M., Jennings, J., Sandsmark, E.K., Amat, J., Kaufman, R.D., Baratta, M.V., Paul, E.D., **Campeau, S.**, Watkins, L.R., Barth, D.S., & Maier, S.F. (2008). The sensory insular cortex mediates the stress-buffering effects of safety signals but not behavioral control. *Journal of Neuroscience*, *28*:13703-13711.
- Sasse, S.K., Greenwood, B., Masini, C.V., Nyhuis, T.J., Fleshner, M., Day, H.E.W., & **Campeau, S.** (2008). Chronic voluntary wheel running facilitates corticosterone response habituation to repeated audiogenic stress exposures in male rats. *Stress*, *11*:425-437.
- Day, H.E.W., Kryskow, E.M., Nyhuis, T.J., Herlihy, L. & **Campeau, S.** (2008). Conditioned fear inhibits c-fos mRNA expression in the central extended amygdala. *Brain Research*, *1229*:137-146.
- Campeau, S.**, Nyhuis, T.J., Sasse, S.K., Day, H.E.W. and Masini, C.V. (2008). Acute and chronic effects of ferret odor exposure in Sprague-Dawley rats. *Neuroscience and Biobehavioral Reviews*, *32*:1277-1286.
- Day, H.E.W., Kryskow, E.M., Watson, S.J., Akil, H., **Campeau, S.** (2008). Regulation of hippocampal alpha1d adrenergic receptor mRNA by corticosterone in adrenalectomized rats. *Brain Research*, *1218*:132-140.

- Masini, C.V., Day, H.E.W. & Campeau, S. (2008). Long-term habituation to repeated loud noise is impaired by relatively short inter-stressor intervals in rats. *Behavioral Neuroscience*, *122*:210-223.
- Bland, S.T., Tamblyn, J.P., Barrientos, R.M., Greenwood, B.N., Watkins, L.R., Campeau, S., Day, H.E., & Maier, S.F. (2007). Expression of fibroblast growth factor-2 and brain-derived neurotrophic factor mRNA in the medial prefrontal cortex and hippocampus after uncontrollable or controllable stress. *Neuroscience*, *144*:1219-1228.
- Patz, M.D., Day, H.E.W., Burow, A.J., & Campeau, S. (2006). Modulation of the hypothalamo-pituitary-adrenocortical axis by caffeine. *Psychoneuroendocrinology*, *31*:493-500.
- Masini, C.V., Sauer, S., White, J., Day, H.E.W., & Campeau, S. (2006). Non-associative defensive responses of rats to ferret odor. *Physiology & Behavior*, *87*: 72-81
- Burow, A.J., Day, H.E.W. & Campeau, S. (2005). A detailed characterization of loud noise stress: intensity analysis of hypothalamo-pituitary-adrenocortical axis and brain activation. *Brain Research*, *1062*: 63-73.
- Masini, C.V., Sauer, S. & Campeau, S. (2005). Ferret odor as a processive stress model in rats: Neurochemical, behavioral, and endocrine evidence. *Behavioral Neuroscience*, *119*: 280-292.
- Greenwood, B.N., Foley, T.E., Day, H.E.W., Burhans, D., Brooks, L., Campeau, S., & Fleshner, M. (2005). Wheel running alters serotonin (5-HT) transporter, 5-HT<sub>1a</sub>, 5-HT<sub>1b</sub>, and alpha<sub>1b</sub>-adrenergic receptor mRNA in the rat raphe nuclei. *Biological Psychiatry*, *57*: 559-568.
- Day, H.E.W., Nebel, S., Sasse, S., & Campeau, S. (2005). Inhibition of the central extended amygdala by loud noise and restraint stress. *European Journal of Neuroscience*, *21*: 441-454.
- O'Connor, K. A., Ginsberg, A. B., Maksimova, E., Wiesler-Frank, J. L., Johnson, J. D., Spencer, R. L., Campeau, S., Watkins, R. L., & Maier, S. F. (2004). Stress-induced sensitization of the hypothalamic-pituitary-adrenal axis is associated with alterations of hypothalamic and pituitary gene expression. *Neuroendocrinology*, *80*: 252-263.
- Day, H.E.W., Masini, C.V. & Campeau, S. (2004). Pattern of brain c-fos mRNA induced by a component of fox odor, 2,5-dihydro-2,4,5-trimethylthiazoline (TMT), in rats, suggests both systemic and processive stress characteristics. *Brain Research*, *1025*: 139-151.
- Barrientos, R.M., Sprunger, D.B., Campeau, S., Watkins, L.R., Rudy, J.W., Maier, S.F. (2004). BDNF mRNA expression in rat hippocampus following contextual learning is blocked by intrahippocampal IL-1 beta administration. *Journal of Neuroimmunology*, *155*: 119-126.
- Day, H.E.W., Greenwood, B.N., Hammack, S.H., Watkins, L.R., Fleshner, M., Maier, S.F., & Campeau, S. (2004). Differential expression of 5HT<sub>1A</sub>, alpha<sub>1b</sub> adrenergic, CRH-R1, and CRH-R2 receptor mRNA in serotonergic, GABAergic and catecholaminergic cells of the rat dorsal raphe. *Journal of Comparative Neurology*, *474*: 364-378.
- Ginsberg, A.B., Campeau, S., Day, H., & Spencer, R.L. (2003). Acute glucocorticoid pretreatment suppresses stress-induced HPA axis hormone secretion and expression of CRH hnRNA but not c-fos mRNA in the paraventricular nucleus of the hypothalamus. *Journal of Neuroendocrinology*, *15*: 1075-1083.
- Barrientos, R.M., Sprunger, D.B., Campeau, S., Higgins, E.A., Watkins, L.R., Rudy, J.W., & Maier, S.F. (2003). BDNF mRNA downregulation produced by social isolation is blocked by intrahippocampal IL-1 receptor antagonist (IL-1ra). *Neuroscience*, *121*: 847-853.
- Greenwood, B.N., Kennedy, S., Smith, T.P., Campeau, S., Day, H.E.W., & Fleshner, M. (2003). Voluntary freewheel running selectively modulates catecholamine content in peripheral tissue and c-FOS expression in the central sympathetic circuit following exposure to uncontrollable stress in rats. *Neuroscience*, *120*: 269-281.
- Greenwood, B.N., Foley, T.E., Day, H.E.W., Campisi, J., Hammack, S.H., Campeau, S., Maier, S.F., & Fleshner, M. (2003). Freewheel running prevents learned helplessness/behavioral depression: Role of dorsal raphe serotonergic neurons. *Journal of Neuroscience*, *23*: 2889-2898.
- Campeau, S., Dolan, D., Akil, H. & Watson, S.J. (2002). C-fos mRNA induction in acute and chronic audiogenic stress: Possible role of the orbitofrontal cortex in habituation. *Stress*, *5*: 121-130.
- Campeau, S., & Watson, S.J. (2000). Connections of auditory-responsive thalamic nuclei putatively involved in activation of the hypothalamo-pituitary-adrenocortical axis in response to audiogenic stress in rats: An anterograde and retrograde tract tracing study combined with Fos expression. *Journal of Comparative Neurology*, *423*: 474-491.
- Day, H.E.W., Campeau, S., Watson, S.J., & Akil, H. (1999). Expression of alpha<sub>1b</sub> adrenoceptor mRNA in corticotropin-releasing hormone-containing cells of the rat hypothalamus, and its regulation by corticosterone. *Journal of Neuroscience*, *19*: 10098-10106.
- Day, H.E.W., Campeau, S., Akil, H., & Watson, S.J. (1997). Distribution of alpha-1A, alpha-1B and alpha-1D adrenergic receptor mRNAs in the rat brain and spinal cord. *Journal of Chemical Neuroanatomy*, *13*: 115-139.
- Campeau, S., & Watson, S.J. (1997). Neuroendocrine and behavioral responses and brain pattern of c-fos induction associated with audiogenic stress. *Journal of Neuroendocrinology*, *9*: 577-588.

- Campeau, S., Akil, H., & Watson, S.J.** (1997). Lesions of the medial geniculate nuclei specifically block corticosterone release and induction of *c-fos* mRNA in the forebrain associated with audiogenic stress in rats. *Journal of Neuroscience*, *17*: 5979-5992.
- Campeau, S., Falls, W.A., Cullinan, W.E., Helmreich, D.L., Davis, M., & Watson, S.J.** (1997). Elicitation and reduction of fear: Behavioural and neuroendocrine indices and brain induction of the immediate-early gene *c-fos*. *Neuroscience*, *78*: 1087-1104.
- Campeau, S., & Davis, M.** (1995). Involvement of the central nucleus and basolateral complex of the amygdala in fear conditioning measured with fear-potentiated startle in rats trained concurrently with auditory and visual conditioned stimuli. *Journal of Neuroscience*, *15*: 2301-2311.
- Campeau, S., & Davis, M.** (1995). Involvement of subcortical and cortical afferents to the lateral nucleus of the amygdala in fear conditioning measured with fear-potentiated startle in rats trained concurrently with auditory and visual conditioned stimuli. *Journal of Neuroscience*, *15*: 2312-2327.
- Campeau, S., & Davis, M.** (1995). Prepulse inhibition of the acoustic startle reflex using visual prepulses: Disruption by apomorphine. *Psychopharmacology*, *117*: 267-274.
- Kim, M., Campeau, S., Falls, W.A., & Davis, M.** (1993). Infusion of the non-NMDA receptor antagonist CNQX into the amygdala blocks the expression of fear-potentiated startle. *Behavioral and Neural Biology*, *59*: 5-8.
- Davis, M., Falls, W.A., Campeau, S., & Kim, M.** (1993). Fear-potentiated startle: a neural and pharmacological analysis. *Behavioral Brain Research*, *58*: 175-198.
- Campeau, S., Miserendino, M.J.D., & Davis, M.** (1992). Intra-amygdala infusion of the N-methyl-D-aspartate receptor antagonist AP5 blocks acquisition but not expression of fear-potentiated startle to an auditory conditioned stimulus. *Behavioral Neuroscience*, *106*: 569-574.
- Campeau, S., & Davis, M.** (1992). Fear potentiation of the acoustic startle reflex using noises of various spectral frequencies as conditioned stimuli. *Animal Learning & Behavior*, *20*: 177-186.
- Liang, K.C., Melia, K.R., Miserendino, M.J.D., Falls, W.A., Campeau, S., & Davis, M.** (1992). Corticotropin-releasing factor: Long-lasting facilitation of the acoustic startle reflex. *Journal of Neuroscience*, *12*: 2303-2312.
- Liang, K.C., Melia, K.R., Campeau, S., Falls, W.A., Miserendino, M.J.D., & Davis, M.** (1992). Lesions of the central nucleus of the amygdala, but not the paraventricular nucleus of the hypothalamus block the excitatory effects of corticotropin-releasing factor on the acoustic startle reflex. *Journal of Neuroscience*, *12*: 2313-2320.
- Rosen, J.B., Hitchcock, J.M., Miserendino, M.J.D., Falls, W.A., Campeau, S., & Davis, M.** (1992). Lesions of the perirhinal cortex but not of the frontal, medial prefrontal, visual, or insular cortex block fear-potentiated startle using a visual conditioned stimulus. *Journal of Neuroscience*, *12*: 4624-4633.
- Campeau, S., Hayward, M.D., Hope, B.T., Rosen, J.B., Nestler, E.J., & Davis, M.** (1991). Induction of the *c-fos* proto-oncogene in rat amygdala during unconditioned and conditioned fear. *Brain Research*, *565*: 349-352.
- Campeau, S., & Davis, M.** (1990). Reversible neural inactivation by cooling in anesthetized and freely behaving rats. *Journal of Neuroscience Methods*, *32*: 25-35.
- Campeau, S., Liang, K.C., & Davis, M.** (1990). Long-term retention of fear-potentiated startle following a short training session. *Animal Learning & Behavior*, *18*: 462-468.
- Davis, M., Mansbach, R.S., Swerdlow, N.R., Campeau, S., Braff, D.L., & Geyer, M.A.** (1990). Apomorphine disrupts the inhibition of acoustic startle induced by weak prepulses in rats. *Psychopharmacology*, *102*: 1-4.

### **Published Non-Refereed Articles:**

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## **Submitted Refereed Journal Articles:**

## **Submitted Book Chapters and Reviews:**

### **In preparation:**

- Day, H.E.W., Garcia, R., Masini, C.V., & **Campeau, S.** Divergent influences of prior repeated homotypic or heterotypic stress on subsequent defensive behaviors.

### **Papers Presented/Published Abstracts**

- Durgempudi, P., Keefer, A., Stanley, J., Sasse, S., Dowell, R., & **Campeau, S.** Determination of steady-state transcriptome modifications associated with repeated homotypic stress in the rat posterior hypothalamic region. Poster presented at the 16<sup>th</sup> Annual meeting of the Front Range Neuroscience Group (FRNG), Fort Collins, Colorado, December 2018.
- Durgempudi, P., Keefer, A., Stanley, J., Sasse, S., Dowell, R., & **Campeau, S.** Determination of steady-state transcriptome modifications associated with repeated homotypic stress in the rat posterior hypothalamic region. Program No. 155.09. 2018 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2018, Online.
- O'Neill, C., Newsom, R., Stafford, J., Scott, T., Archuleta, S., Levis, S.C., Spencer, R.L., **Campeau, S.**, & Bachtell, R. Adolescent caffeine consumption enhances anxiety-related behavior and disrupts neuroendocrine signaling. Abstract T21 presented at the 54<sup>th</sup> Annual Meeting of the American College of Neuropsychopharmacology (ACNP), Vol. 40 (Supplement), pp. S285-S286, December 2015.
- Day, H.E.W., Masini, C.V., Nyhuis, T.J., Newsom, R., Babb, J.A., **Campeau, S.** Stress habituation and resistance to anxiety. Program No. 176.21. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013, Online.
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- Greenwood, B.N., Foley, T.E., Day, H.E.W., Burhans, D.J., **Campeau, S.**, Fleshner, M. Regulation of BDNF mRNA and protein by exercise and uncontrollable stress. Program No. 542.6. [2004 Abstract Viewer/Itinerary Planner](#). Washington, DC: Society for Neuroscience.
- Patz, M.D., **Campeau, S.** The effects of caffeine on hypothalamo-pituitary-adrenal axis in rats. Program No. 892.12. [2004 Abstract Viewer/Itinerary Planner](#). Washington, DC: Society for Neuroscience.
- Tamblyn, J.P., Bland, S.T., Barrientos, R.M., Severson, B., **Campeau, S.**, Watkins, L.R., Maier, S.F. Effect of stressor controllability on BDNF mRNA expression in hippocampus & medial prefrontal cortex. Program No. 1000.5. [2004 Abstract Viewer/Itinerary Planner](#). Washington, DC: Society for Neuroscience.
- Campeau, S.**, Masini, C.V. Ferret odor as a psychological stressor. Program No. 927.4. [2003 Abstract Viewer/Itinerary Planner](#). Washington, DC: Society for Neuroscience.
- Day, H.E.W., Greenwood, B.N., Hammack, S.E., Watkins, L.R., Fleshner, M., Maier, S.F., **Campeau, S.** Differential expression of 5-HT1a, alpha1b adrenergic, CRH-R1 and CRH-R2 receptor mRNA in serotonergic, GABAergic and catecholaminergic cells of the rat dorsal raphe nucleus. Program No. 713.4. [2003 Abstract Viewer/Itinerary Planner](#). Washington, DC: Society for Neuroscience.
- Greenwood, B.N., Bland, S.T., Foley, T.E., Day, H.E.W., Burhans, D.J., Brooks, L., **Campeau, S.**, Maier, S.F., Fleshner, M. Altered serotonin release in the dorsal raphe nucleus at rest and in response to 8-OH-DPAT but not citalopram following habitual wheel running: role of serotonin transporters, 5-HT1a, and 5-HT1b receptors. Program No. 711.5. [2003 Abstract Viewer/Itinerary Planner](#). Washington, DC: Society for Neuroscience.
- O'Connor, K.A., Greenwood, B.N., Foley, T.E., Day, H.E.W., Brooks, L., Burhans, D.J., **Campeau, S.**, Fleshner, M. Effect of varying durations of wheel running on BDNF and monoamine receptor mRNA expression in the hippocampus of adult rats. Program No. 711.4. [2003 Abstract Viewer/Itinerary Planner](#). Washington, DC: Society for Neuroscience.
- Day, H.E.W., Nebel, S., & **Campeau, S.** (2002). Evidence that psychological stress inhibits the central nucleus of the amygdala (lateral part) and oval nucleus of the bed nucleus of the stria terminalis. [Society for Neuroscience Abstracts](#), *28*.
- Burow, A.J., & **Campeau, S.** (2002). Hormonal and molecular characterization of noise stress: Time course and recovery. [Society for Neuroscience Abstracts](#), *28*.
- Barrientos, R.M., Sprunger, D.B., **Campeau, S.**, Watkins, L.R., Rudy, J.W., Maier, S.F. (2002). The role of IL-1B and BDNF in the hippocampal-dependent memory impairments produced by social isolation. [Society for Neuroscience Abstracts](#), *28*.
- Burow, A.J., & **Campeau, S.** (2001). Specific induction of c-fos mRNA to audiogenic stress. [Society for Neuroscience Abstracts](#), *27*.
- Campeau, S.**, & Day, H.E.W. (2001). Tetrodotoxin inactivation of the paraventricular nucleus of the hypothalamus blocks audiogenic stress-induced corticosterone release. [Society for Neuroscience Abstracts](#), *27*.
- Day, H.E., & **Campeau, S.** (2001). Effect of exposure to the predator odor trimethylthiazoline (TMT) on HPA axis and brain c-fos mRNA responses. [Society for Neuroscience Abstracts](#), *27*.
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- Zimmer, C.A., Lopez, J.F., **Campeau, S.**, & Watson, S.J. (1996). Effect of chronic stress and antidepressants in rat hippocampal function. [Biological Psychiatry](#), *39*: 589.
- Campeau, S.**, & Watson, S.J. (1995). c-fos mRNA induction in the auditory and limbic systems following loud noise stress. [Society for Neuroscience Abstracts](#), *21(3)*: 1626.

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- Campeau, S.**, Falls, W.A., Cullinan, W.E., Helmreich, D.L., Davis, M., & Watson, S.J. (1994). Various Pavlovian fear conditioning procedures induce similar brain *c-fos* mRNA patterns which are indistinguishable from those observed with other stressors. Society for Neuroscience Abstracts, 20: 374.
- Campeau, S.**, & Davis, M. (1993). Involvement of different subdivisions of the medial geniculate nucleus and of the perirhinal cortex in fear potentiated startle to acoustic and visual conditioned stimuli. Society for Neuroscience Abstracts, 19: 1228.
- Campeau, S.**, & Davis, M. (1992). Involvement of the lateral amygdala and perirhinal cortex in fear potentiated startle to acoustic and visual conditioned stimuli. Society for Neuroscience Abstracts, 18: 1562.
- Campeau, S.**, & Davis, M. (1992). Involvement of the lateral amygdala and perirhinal cortex in fear potentiated startle to acoustic and visual conditioned stimuli. Abstract of the Fifth Conference on the Neurobiology of Learning and Memory.
- Campeau, S.**, & Davis, M. (1991). Lesions of the auditory thalamus block acquisition and expression of aversive conditioning to an auditory but not a visual stimulus measured with the fear potentiated startle paradigm. Society for Neuroscience Abstracts, 17: 658.
- Miserendino, M.J.D., **Campeau, S.**, & Davis, M. (1991). Infusion of an N-methyl-D-aspartate antagonist into the amygdala blocks acquisition of fear-potentiated startle to an auditory conditioned stimulus. Society for Neuroscience Abstracts, 17: 485.
- Campeau, S.**, & Davis, M. (1990). Conditioned and unconditioned effects of varying noise spectral frequencies on the acoustic startle reflex in rats. Society for Neuroscience Abstracts, 16: 608.
- Campeau, S.**, & Davis, M. (1989). Bilateral lesions of the central nucleus of the amygdala block loud background noise induced startle enhancement. Society for Neuroscience Abstracts, 15: 890.
- Campeau, S.**, & Davis, M. (1988). Development and calibration of a cryoprobe for use in freely behaving rats. Society for Neuroscience Abstracts, 14: 863.

### **Membership in Professional Organizations**

Society for Neuroscience  
International Behavioral Neuroscience Society  
Rocky Mountain Neuroscience Group

### **Conferences, Symposia, Seminars and Colloquia**

#### **Conference Organization and Presentation:**

- June 15-18, 2010 Member of organizing and program committees (**S. Campeau**, H. Day, M. Fleshner, C. Lowry, S. Maier, R. Spencer) of the 2010 Workshop on the Neurobiology of Stress held at the Millennium Hotel, Boulder, CO.
- June 18, 2010 Chair of a session (V) titled: Stress Modulation of Cognitive and Affective Processes (Invited Speakers: David Morilak, **Serge Campeau**, Kerry Ressler, Israel Liberzon), for the 2010 Workshop on the Neurobiology of Stress, Millennium Hotel, Boulder, CO.
- June 1-3, 2005 Co-organizer (**S. Campeau**, J. Koenig, J. Herman, R. Sakai, R. Spencer) of the 2005 American Neuroendocrine Society Workshop on the Neuroendocrinology of Stress, San Diego, CA (<http://www.neuroendocrine.org/workshop2005.htm>).
- June 1, 2005 Chair of a session (I) titled: Challenging Paths: Mapping Stress in the Brain (Invited Speakers: Trevor Day, James Herman, Paul Sawchenko, Michael Davis, and Douglas Bremner), for the 2005 Workshop on the Neuroendocrinology of Stress, Catamaran Resort Hotel, San Diego, CA.

#### **Symposium Organization and Presentation:**

- June, 2014 Symposium Chair for International Behavioral Neuroscience Society 2014 Annual Meeting. Symposium title: *Chronic stress and brain plasticity: Contrasting mechanisms underlying adaptive and maladaptive changes and implications for stress-related CNS disorders*. Participants: David Morilak (University of Texas Health Science Center, San Antonio, TX), Jason Radley (University of Iowa, Iowa City, IA), Victor Viau (University of British Columbia, Vancouver, BC) and Serge Campeau (University of Colorado at Boulder, CO), Red Rock Casino Resort, Las Vegas, NV.

### **Presentations at Professional Meetings/Organizations:**

- Sept., 2019 *Let's Chalk! A workshop on How to provide an effective chalk talk.*  
Invited by the Office of Postdoctoral Affairs, Research and Innovation Office, University of Colorado Boulder, CO.
- June, 2014 *Adaptation to Stress: A path of most resistance*  
Symposium presentation at the 23<sup>rd</sup> Annual meeting of the International Behavioral Neuroscience Society, Red Rock Resort, Las Vegas, Nevada.
- Jan., 2013 *The paths to relaxation.*  
Invited talk given at the 46<sup>th</sup> Winter Conference on Brain Research, Breckenridge, CO
- June, 2010 *Learning to live with stress: Modulation of stress responses by prior stress.*  
2010 Workshop on the Neurobiology of Stress, Millennium Hotel, Boulder, CO
- Nov. 2009 Data Blitz presentation at the Front Range Neuroscience Group meeting, Fort Collins, Colorado.
- June, 2007 *Acute and Chronic Effects of Ferret Odors in Rodents.*  
Invited talk at Satellite Symposium (Predatory odor; Animal models for the study of anxiety) of the 2007 International Behavioral Neuroscience Society Annual meeting, Rio de Janeiro, Brazil.
- Jan., 1997 *Brain c-fos patterns associated with the elicitation and reduction of fear.*  
Invited talk at Twenty-first Winter Conference on Neurobiology of Learning and Memory, Park City, Utah.
- Dec., 1996 *Functional neuroanatomy of stress.*  
Invited talk at Michigan Chapter of Society for Neuroscience Meeting.  
University of Michigan, Ann Arbor, MI.

### **Invited Colloquia and Talks:**

- Feb., 2020 *My Research Career Journey: A reflection on 30 years in neuroscience.*  
Invited talk by the Neuroscience Club, University of Colorado Boulder, CO.
- Feb., 2018 *The Challenge of Adapting to Stress!*  
Department of Psychology and Neuroscience, Regis University, Denver, CO
- Sept., 2014 *Voluntary Exercise and Stress Adaptation.*  
Department of Cell and Molecular Biology, Tulane University, New Orleans, LA.
- Nov., 2013 *The Physiology of Stress Habituation.*  
Department of Pharmaceutical Sciences, Albany College of Pharmacy and Health Sciences, Albany, NY.
- Sept., 2013 *Adaptation to Stress: The Paths of Resistance.*  
Department of Psychology and Neuroscience, University of Colorado at Boulder, Boulder, CO.
- Mar., 2013 *Habituation to Stress: Defining its underlying systems.*  
Department of Physiology, Emory University, Atlanta, GA.
- Feb., 2011 *Learning to Live with Chronic Stress* – Invited talk for the Psi Chi Psychology Society, University of Colorado at Boulder, Boulder, CO.
- Feb., 2010 *The perception of stress* - Neuroscience Club  
University of Colorado at Boulder, Boulder, CO.
- Oct., 2007 *Habituation to Repeated Stress* – Neuroscience Seminar Series, Center for Neuroscience, University of Colorado at Boulder, Boulder, CO.
- Nov., 2006 *Brain Systems and the Perception of Stress* – A Professor Spotlight presentation for the Psi Chi Psychology Society, University of Colorado at Boulder, Boulder, CO.
- Oct., 2005 *The Neurobiology of Stress and its Adaptation.*  
Department of Psychology, University of Colorado at Boulder, Boulder, CO.
- Sept., 2002 *Stress: Where does it happen in the head?*  
Department of Psychology, University of Colorado at Boulder, Boulder, CO.
- Apr., 2000 *Neuroanatomy of stress.*  
Department of Environmental, Population, and Organismic Biology, (Endocrine Group), University of Colorado at Boulder, Boulder, CO.
- Feb., 1999 *Neuroanatomy of stress and fear.*  
Department of Psychology, SUNY at Albany, Albany, NY.
- Feb., 1999 *Functional neuroanatomy of stress and fear.*  
Neuroscience Research Group, University of Calgary, Calgary, Alberta, Canada.
- Feb., 1999 *Functional neuroanatomy of psychological stress.*  
Department of Psychology, University of Texas at Austin, Austin, TX.

- Feb., 1999 *Functional neuroanatomy of psychological stress.*  
Department of Psychology, SUNY at Binghamton, Binghamton, NY.
- Feb., 1999 *Functional neuroanatomy of psychological stress.*  
Department of Psychology, Bowling Green State University, Bowling Green, OH.
- Jan., 1999 *Functional neuroanatomy of stress and fear.*  
The Albany Medical College, Albany, NY.
- Dec., 1998 *Functional neuroanatomy of audiogenic stress and learned fear.*  
Department of Psychology, University of Colorado at Boulder, Boulder, CO.
- March, 1998 *Neuroendocrine and behavioral responses and brain pattern of c-fos induction associated with audiogenic stress.*  
Abbott Laboratories, Chicago, IL.
- Feb., 1998 *Neuroendocrine and behavioral responses and brain pattern of c-fos induction associated with stress and fear.*  
Sibia Neurosciences Inc., San Diego, CA.
- Nov., 1996 *Neuroendocrine and behavioral responses and brain pattern of c-fos induction associated with audiogenic stress.*  
Department of Psychology, University of Michigan, Ann Arbor, MI.
- Sept., 1996 *Neuroendocrine and behavioral responses and brain pattern of c-fos induction associated with audiogenic stress.*  
Kresge Hearing Research Center, University of Michigan, Ann Arbor, MI.
- April 1995 *Neuroanatomy of audiogenic stress.*  
Maryland Psychiatric Research Institute, Baltimore, MD.
- March, 1994 *Brain c-fos patterns associated with stress and fear.*  
Maryland Psychiatric Research Institute, Baltimore, MD.

## **Teaching and Supervision**

### **Postdoctoral advisor to:**

- Dr. Heidi E.W. Day (1999 – 2005; now Senior Instructor at CU Boulder)  
Dr. Cher V. Masini (2002 – 2012; now Biosafety officer, Environmental Health & Safety, CU Boulder)

### **Principal Ph.D. thesis advisor to (\*year/degree conferred):**

- Andrew Burow, Psychology/Neuroscience (2000 – \*2004/MA)  
Sarah K. Sasse, Psychology/Neuroscience (2004 – \*2009/Ph.D.)  
Jessica A. Babb, Psychology/Neuroscience (2006 – \*2013/Ph.D.); note – co-advisor with Dr. Heidi Day.  
Tara J. Nyhuis, Psychology/Neuroscience (2008 – \*2013/Ph.D.)  
Ryan Newsom, Psychology/Neuroscience (2008 – \*2015/Ph.D.)

### **Ph.D./M.A. Thesis Committees (\*year/degree conferred):**

- Dr. Kim Buyteart, Psychology (2000 - \*2002/Ph.D.)  
Dr. Thaddeus Pace, Psychology/Neuroscience (2000 – \*2004/Ph.D.)  
Dr. Sayamwong Hammack, Psychology (2000 - \*2002/Ph.D.)  
Dr. Amy Smith, Institute of Behavioral Genetics/Neuroscience (2001 – \*2003/Ph.D.)  
Dr. Abigail Ginsberg, Psychology/Neuroscience (2003 - \*2004/Ph.D.)  
Dr. Kevin O'Connor, Psychology/Neuroscience (2002 – \*2003/Ph.D.)  
Dr. Benjamin Greenwood, Integrative Physiology/Neuroscience (2003 – \*2004/Ph.D.)  
Dr. Nicole Huff, Psychology/Neuroscience (2003 – \*2005/Ph.D.)  
Dr. Mark Weinberg, Psychology/Neuroscience (2004 – \*2008/Ph.D.)  
Dr. Michael Baratta, Psychology/Neuroscience (2007 – \*2008/Ph.D.)  
Dr. Christopher P. Arthur, MCDB/Neuroscience (\*2007/Ph.D.)  
Dr. Alexander Benison, Psychology/Neuroscience (2008 – \*2012/Ph.D.)  
Ms. Rachael Ramsey, Psychology/Neuroscience (2009 - \*2011/M.A.)  
Dr. Chad Osterlund, Psychology/Neuroscience (2009 - \*2013/Ph.D.)  
Dr. Brittany Thompson, Psychology/Neuroscience (2009 - \*2013/Ph.D.)  
Ms. Elizabeth Woodruff, Psychology/Neuroscience (2011 - \*2017/Ph.D.)  
Ms. Lauren Chun, Psychology/Neuroscience (2011 - \*2017/Ph.D.)  
Ms. Amanda Ellis, Psychology/Neuroscience (2013 - \*2014/Ph.D.)



Mr. Ryan J. Marker, Department of Physical Medicine & Rehabilitation, University of Colorado Anschutz Medical Campus (2013 - \*2015/Ph.D.)  
Ms. Julianne Jet, Department of Pharmacology, School of Medicine, University of Texas Health Science Center (2013 - \*2015/Ph.D.)  
Ms. Julia Sobesky, Psychology/Neuroscience (2014 - \*2015/Ph.D.)  
Mr. Philip Siebler, Integrative Physiology (2014 - 2017)  
Mr. Samuel Dolzani, Psychology/Neuroscience (2014 - \*2015/M.A.)  
Ms. Rachel Daut, Psychology/Neuroscience (2014 - \*2015/M.A.)  
Mr. James Hassell, Integrative Physiology (2017 – \*2019/Ph.D.)  
Mr. Eduardo Villegas, Psychology/Neuroscience (2018 – \*2020/Ph.D.)  
Ms. Helen Strnad, Psychology/Neuroscience (2019 – present)  
Ms. Annie Ly, Psychology/Neuroscience (2021 – present/M.A.)  
Ms. Madeline Lemieux, Integrative Physiology (2021 – present/Ph.D.)

### **Mentor to International Graduate Student Exchange/Visitor Program:**

Mr. Leonardo Machado Crema, Universidade Federal do Rio Grande do Sul, Brazil (May – October 2010)

### **Principal Undergraduate Honors Thesis Advisor:**

Ms. Sarah K. Sasse, Psychology, for a project titled: *Determination of the effectiveness of the voltage-dependent sodium channel blocker tetrodotoxin in reversibly blocking audiogenic stress-induced activation of the HPA axis at the level of the medial parvocellular region of the paraventricular nucleus of the hypothalamus* (summa cum laude – May 2002).

Ms. Nicole Wagner, Psychology, for a project titled: *Regulation of NPY expression in rat amygdala following repeated and acute audiogenic stress* (magna cum laude – May 2003).

Ms. Camille Reich, Psychology, for a project titled: *Functional Determination of Celiac Ganglionic Activity in Response to Stress in Exercised vs. Sedentary Rats* (magna cum laude - May 2004).

Mr. Michael Patz, MCD Biology, for a project titled: *Modulation of the hypothalamo-pituitary-adrenocortical axis by caffeine* (summa cum laude – December 2005).

Ms. Tara J. Nyhuis, Psychology, for a project titled: *The Effects of Voluntary Physical Activity and Enriched Environment on HPA axis Response to Chronic Audiogenic Stress* (summa cum laude – May 2007).

Ms. Seerat Poonia, Psychology and Neuroscience & MCD Biology, for a project titled: *Habituation of endocrine indices of stress to repeated intermittent footshocks at different intensities* (summa cum laude - May 2010).

Ms. Dora Panyi, Psychology and Neuroscience, for a project titled: *Localization of extracellular regulated and calcium-dependent calmodulin protein kinases in posterior hypothalamic neurons displaying stress-induced Fos induction* (cum laude, May 2013).

Mr. Colton Paterson (co-mentor with Dr. Michael Sadoris), Psychology and Neuroscience, for a project titled: *Mapping the Neuronal Ensembles Responsible for Fear Learning and Fear Extinction* (magna cum laude, May 2020).

Ms. Isabella Decker, Psychology and Neuroscience, for a project titled: *DREADDs inactivation of posterior hypothalamic area during repeated loud noise exposures in rats* (summa cum laude - May 2023).

Ms. Lindsay Atkinson, Psychology and Neuroscience, for a project titled: *Test of the hypothesis that posterior hypothalamic activity is modified by habituation to repeated homotypic stress* (May 2024).

### **Undergraduate Honors Thesis Committees:**

Mr. Ian Dorward, Environmental Biology (summa cum laude, May 2000)  
Mr. Decha Sermwittayawong, Molecular, Cellular and Developmental Biology (magna cum laude, May 2000)  
Mr. Alex Benison, Psychology (cum laude, May 2005)  
Mr. Daniel Finnin, Integrative Physiology (magna cum laude, May 2011)

Ms. Mariana Rodriguez Santiago, Psychology & Neuroscience (cum laude, May 2012)  
Mr. Nathan Riechers, Psychology & Neuroscience (magna cum laude, December 2012)  
Ms. Talia Scott, Psychology & Neuroscience (summa cum laude, December 2014)  
Ms. Jessica Smith, Psychology & Neuroscience (summa cum laude, May 2016)  
Ms. Stephanie N. Salazar, Integrative Physiology (summa cum laude, May 2020)  
Mr. Dallas Vanderheyden, Integrative Physiology (summa cum laude, May 2020)

**UROP/URAP/BURST/BSI Advisor (University of Colorado Funded Undergraduate Research through Howard Hughes Undergraduate Biological Sciences Education Initiative):**

Christa Watson (Oct. 00 - May 01), Undergraduate Research Assistant Program (URAP)  
Carol Kim (May - Aug 01), URAP  
Sarah K. Sasse (May - Aug 01), URAP  
Nicole Wagner (May - Aug 02), URAP  
Camille Reich (May - Dec 02), URAP, Undergraduate Research Opportunity Program (UROP)  
Scott Nebel (May - Dec 02), URAP, UROP  
Brandon Uttley (May - Aug 02), SURF  
Jeffrey Gould (Aug - Dec 02), URAP  
Stephanie Sauer (May 03 - May 04), URAP, UROP  
Michael Patz (Sept 03 - May 04), URAP, UROP (2)  
Jason White (Oct 04 - May 05), URAP, UROP  
Srihivasa Srinidhi (Sept 05 - May 07), BURST (formerly URAP), UROP  
Tara Nyhuis (May 06 - Aug 07), BURST, UROP  
Natalie Pitts (Oct 07 - Dec 07), BURST  
Seerat Poonia (Sept 08 - May 10), UROP (2)  
Ryan Eden (May 10 - June 10), BURST  
Yelin Lee (Oct 10 - May 12), BURST, UROP  
Robert Garcia (May 08 - May 13), BURST, HHMI, UROP  
Dora Panyi (Jan 11 - May 13), UROP (2)  
Pranathi Durgempudi (Sept 17 - May 18), BSI  
Cory Wong (Sept 18 - Dec 18), UROP  
Colton Paterson (Aug 19 - May 20), UROP  
Isabella Ogden (Aug 21 - May 22), BSI  
Isabella Ogden (Aug 22 - May 23), BSI  
Heather Meyer (Aug 23 - Dec 23), UROP

**Research Supervisor of Undergraduate Volunteers:**

Maulik Patel (June - Aug 00), Psychology, Grinnell College  
Jeffrey Gould (Feb - Aug 02), Psychology  
Jason White (May - Aug 04), Psychology  
Clark Boyd (May - Aug 04), Psychology  
Tara Nyhuis (Jan - May 06), Psychology  
Natalie Pitts (Oct 06 - May 07), Psychology  
Sheaffer Orme Gilliam (Oct 07 - May 08), Psychology/Integrative Physiology  
Anne Rizzuto (Jan - April 08), Psychology  
Dora Panyi (Oct - Dec 10), Psychology & Neuroscience  
Joshua Arnold (May - Aug 13), Psychology & Neuroscience  
Kirsten Taufer (Jan 14 - July 15), Psychology & Neuroscience  
Alyssa Keefer (Sept 17 - May 18), Psychology & Neuroscience  
Colton Paterson (May 18 - Aug 19), Psychology & Neuroscience  
Connor McNulty (May - Dec 18), Biochemistry  
Nicholas Fayette (May - Dec 18), Psychology & Neuroscience  
Rylee Funkhouser (Jan - Dec 19), Psychology & Neuroscience  
Raymond Zhang (Sept - Dec 20), Integrative Physiology  
Janvi Patel (Aug 21 - May 22), Psychology & Neuroscience  
Isabella Ogden (Aug 21 - Oct 21), Psychology & Neuroscience  
Jess Richins (Aug 21 - May 22), Psychology & Neuroscience

Heather Meyer (Oct 22 – Dec 23), Psychology & Neuroscience  
Lindsay Atkinson (Nov 22 – May 24), Psychology & Neuroscience  
Shyla Tummala (Jan 24 – present), Psychology & Neuroscience

**Apprenticeship Program Supervisor at University of Colorado  
Summer Minority Access to Research Training (SMART):**

Melissa Noel (University of Puerto Rico, Summer 2000)

**Laboratory Mentor for American Psychological Association’s Summer Science Institute  
2001:**

Joyvin Benton (Arkansas State University),  
Giuliana Landa (Armstrong Atlantic State University);  
Benjamin Lewis (Chattanooga State Technical Community College);  
Charla Poole (Tulane University).

**Laboratory Advisor for Boulder Valley School District Science (BVSD) Research Seminar  
Program:**

Neka Hafezzadeh (March 01);  
Alexis Beaneek (March 01);  
Adam Brisnehan (March 02).  
Kristen Feaver (Nov-Dec 05)

**Classroom Teaching:**

Introduction to Neuroscience (NRSC 2100): Fall 12, 13, 14, 15, 16, 17, 18, 19, 20, 21; Spring 13, 14, Summer 14,  
15, 16, 17, 18, 19, 20, 22 (class material for NRSC 2100 on Canvas).  
Introduction to Neuroscience I (NRSC 2125): Fall 2022, 23; Summer 23 (class material for NRSC 2125 on Canvas).  
Introduction to Biological Psychology (PSYC 2012): Fall 99, 00, 01, 02, 09, 10, 11, Spring 05, 07, 09, 10, 11, 12.  
Biological Psychology II (PSYC 2022): Spring 01, 02, Fall 03.  
Topics in Neuroscience I: Molecular Analysis of Behavior (PSYC 7215/NRSC 7102): Fall 99, Spring 02, Spring 09,  
12, 15.  
Seminars in Neuroscience (NRSC 6100): Fall 05, 09, 16.  
Mammalian Neuroanatomy (PSYC/NRSC 5262): Spring 01, 03, 11, 14, 18, Fall 07.  
Topics in Neuroscience V (NRSC 7152): Spring 13.  
Introduction to Neuroscience I (NRSC 5100): Fall 18, 19.  
Introduction to Neuroscience II (NRSC 5110): Spring 19, 20, 21, 22, 23, 24.  
Scientific Skills Development (NRSC 6602): Spring 23, 24.  
Senior Thesis (NRSC 4011): Spring 23,24.

**Served on Review Panel for Grant Writing Class at the University of Florida:**

Michael Misilmeri, University of Florida (Feb. 00)

**Departmental, University, Government Agencies, and Other Professional Services  
Departmental Services (Department of Psychology and Neuroscience, University of  
Colorado Boulder):**

1999 – 2000 Faculty meeting Recorder.  
2000 – 2001 Search Committee to recruit a Junior Faculty in IBG/Psychology.  
2001 – 2003 Committee for Undergraduate Education (CUE).  
2001 – 2004 Co-chair, Departmental Colloquium Committee.  
2002 – 2003 Search Committee to recruit a Junior Faculty in Developmental Psychology.  
2003 – 2004 Member of Strategic Planning Committee, Department of Psychology.  
2004 – 2016 Medical School Advisor, Department of Psychology and Neuroscience.  
2004 – 2014 Chair (since AY 07-08) Department of Psychology and Neuroscience Annual Awards Committee.

2006 – 2007	Search Committee to recruit tenure/tract Faculty in Behavioral Neuroscience/Psychology.
2007 – 2008	Search Committee to recruit tenure/tract Faculty in Behavioral Neuroscience/Psychology.
2007 – 2008	Member of primary unit evaluation committee for Dr. Susan Patterson (Psychology).
Fall 2010	Chair, tenure and promotion committee for Dr. Susan Patterson (Psychology and Neuroscience).
2011 - 2015	Director, Graduate Behavioral Neuroscience Program, Department of Psychology and Neuroscience.
2012 – 2015	Member of Strategic Planning Committee, Department of Psychology and Neuroscience.
2012 - 2013	Chair, Personnel Infrastructure Committee, formed as part of the Strategic Planning effort, Department of Psychology and Neuroscience.
2014 – 2015	Chair, Joint Search Committee to recruit tenure/tract Faculty in Psychology & Neuroscience/Molecular, Cellular and Developmental Biology.
2015 – 2016	Member, Joint Search Committee to recruit tenure/tract Faculty in Psychology & Neuroscience/Integrative Physiology.
2016 – 2017	Chair, Search Committee to recruit tenure/tract Faculty in Behavioral Neuroscience.
2016 - 2018	Member of the departmental executive committee.
2017 – 2023	Departmental conflict resolution coordinator.
2018 - present	Co-chair, Merit committee, Department of Psychology and Neuroscience
2019 - 2021	Chair, Post-tenure review committee
2022 – 2023	Search Committee to recruit two new Instructors, Department of Psychology & Neuroscience
Fall 2023	Search Committee to recruit one new Neuroscience Assistant Teaching Professor, Department of Psychology & Neuroscience
2023 – 2023	Member of primary unit evaluation committee for Dr. Michael Saddoris (Psychology & Neuroscience).

### **University (campus level) Services:**

1999 – 2010	Ad hoc reviewer for the Undergraduate Research Opportunity Program (UROP) at the University of Colorado at Boulder.
2002 – present	Member of Institutional Biosafety Committee at the University of Colorado, Boulder.
2010 - 2015	Chair of Institutional Biosafety Committee at the University of Colorado, Boulder.
2006 – 2007	Boulder Faculty Assembly Department of Psychology representative.
2009 – 2022	CU Boulder Faculty Representative to the Front Range Neuroscience Group (FRNG).
2007 – 2017	Preprofessional Prehealth advising committee member to Boulder Campus.
2018 – present	Interviewer for health-related student application letters, Continuing Education, CU Boulder.
May 2007	Served on Innovative Grant Proposal (IGP) review panel for Boulder Campus.
April 2008	Served on Innovative Grant Proposal (IGP) review panel for Boulder Campus.
April 2009	Served on Innovative Grant Proposal (IGP) review panel for Boulder Campus.
2010 - 2018	Served as reader to evaluate the Norlin Scholars applications to the Boulder Campus.
2014 - 2017	Member of advisory committee for new off campus (Wilderness Place) animal research facility.
2015 - present	Director, Interdepartmental Neuroscience PhD program, University of Colorado Boulder.
2015 - present	Director, Undergraduate Neuroscience Certificate Program.
May 2017	Reviewer for CU Boulder limited campus research competition 2017.
February 2018	Served on Innovative Seed Grant Proposal (ISGP) review panel for Boulder Campus.
2023 – present	Member of Institutional Animal Care and Use Committee (IACUC) at the University of Colorado, Boulder.

### **Government Agencies Services:**

#### **Ad hoc grant reviewer for:**

Medical Research Council (MRC) of Canada.  
National Science Foundation (NSF), USA.  
National Institutes of Health (NIH), USA.  
Qatar National Research Fund (QNRF), Qatar  
The Fund for Scientific Research – FNRS, Belgium.

**Member of ad hoc site visit committee to evaluate Neuroscience Research at the University of Puerto Rico**  
NINDS mandated – Dec 01

**Member of Scientific Review Special Emphasis Panel for Research on Mind-Body Interactions and Health, National Institutes of Health**

Washington, DC. Scientific Review Group ZRG1 RPHB-B 50 R – June 14-15, 2004

**Ad hoc member of Neurobiology of Motivated Behavior (NMB) Study Section – Integrative, Functional and Cognitive Neuroscience Integrated Review Group, Center for Scientific Review, National Institutes of Health**  
Washington, DC. October 18-19, 2004

**Ad hoc member of Neurobiology of HPA axis hormones & transmitters Study Section – Integrative, Functional and Cognitive Neuroscience D (IFCN-D (02) - Special Emphasis Panel), Center for Scientific Review, National Institutes of Health**

Washington, DC. November 16, 2004

**Member of Special Emphasis Panel for NIH Roadmap Interdisciplinary Training Grant Applications – RFA RM-05-010 – T32 mechanism (ZMH1-ERB-A (09)), Center for Scientific Review, National Institutes of Health**

Washington, DC. June 17, 2005

**Ad hoc member of IFCN Fellowship – Behavioral Neuroscience (ZRG1 F02A-H) Study Section, Center for Scientific Review, National Institutes of Health**

Washington, DC. November 3-4, 2005

**Member of Special Emphasis Panel for NIH (NIMH) Basic Neuroscience Conte Centers II – (ZMH1-ERB-A (03)) Study Section, Center for Scientific Review, National Institutes of Health**

Washington, DC. March 17, 2006

**Member of Special Emphasis Panel for NIH Member Conflicts: Psychopharmacology (ZRG1 IFCN-A (04)) Center for Scientific Review, National Institutes of Health**

Teleconference. May 24, 2006

**Ad hoc member of Neuroendocrinology, Neuroimmunology, and Behavior (NNB) Study Section – Integrative, Functional and Cognitive Neuroscience Integrated Review Group, Center for Scientific Review, National Institutes of Health**

Washington, DC. February 8-9, 2007

**Ad hoc member of Neuroendocrinology, Neuroimmunology, and Behavior (NNB) Study Section – Integrative, Functional and Cognitive Neuroscience Integrated Review Group, Center for Scientific Review, National Institutes of Health**

Washington, DC. October 9-10, 2007

**Member of Challenge Grants Reviews: ZRG1 IFCN-A 58 R, RFA OD-09-003: Challenge Grants Panel 8, Center for Scientific Review, National Institutes of Health**

Mail in reviews for July 20-21, 2009 meeting.

**Ad hoc member of Neuroendocrinology, Neuroimmunology, and Behavior (NNB) Study Section – Integrative, Functional and Cognitive Neuroscience Integrated Review Group, Center for Scientific Review, National Institutes of Health**

Washington, DC. September 30, 2009

**Ad hoc member of Neuroendocrinology, Neuroimmunology, and Behavior (NNB) Study Section – Integrative, Functional and Cognitive Neuroscience Integrated Review Group, Center for Scientific Review, National Institutes of Health**

Washington, DC. February 2 & 3, 2010

**Member of Special Emphasis Panel for NIH Member Conflicts: Integrative Neuroscience (2011/05 ZRG1 IFCN-M (02)) Center for Scientific Review, National Institutes of Health**  
Internet Assisted Meeting. March 22, 2011

**Regular (standing) member of the Neuroendocrinology, Neuroimmunology, Rhythms and Sleep (NNRS) Study Section, Center for Scientific Review, National Institutes of Health.**  
July 2010 - June 2014.

**Ad hoc member for QNRF grant review – National Priorities Research Program.** Internet Review, June 2019.

**Ad hoc member for The Fund for Scientific Research – FNRS grant review.** Internet Review, March 2020.

**Ad hoc member for The National Science Foundation – NSF grants; Understanding the Rules of Life: Epigenetics.** Electronic Proposal Review, March 2020.

### **Other Professional Services:**

**Served as external reviewer for Tenure and Promotion Personnel Action at The University of Michigan**  
September 2012.

**Served as external reviewer for Tenure and Promotion Personnel Action at The University of Michigan**  
September 2021.

**University of Colorado Boulder Campus Representative of the Front Range Neuroscience Group (FRNG) Chapter.**  
Beginning 2009 term - 2023.

**Editorial Board Member, Journal of Psychotherapy & Psychological Disorders, a Journal published by SciTechnol, An OMICS Group Initiative (International Publisher of Science, Technology and Medicine), Henderson, Nevada.**  
June 2012 - Jan 2015.

**Editorial Board Member, (International Scholarly Research Network - ISRS) Neuroendocrinology, an Open Access Journal from Hindawi Publishing Corporation.**  
July 2011 - June 2013.

**Associate Editor, Neuroscience Research Letters, A Bioinfo Publications Open Journal**  
February 2011 – August 2017.

**Editorial Advisory Board Member, The Open Neuroendocrinology Journal – A Bentham Open Journal**  
August 2008 – June 2014.

**Review Editor, Editorial Board, Frontiers in Behavioral Neuroscience – A Frontiers Media SA publication**  
April 2020 – 2022.

**Associate Editor, Editorial Board, Frontiers in Behavioral Neuroscience – A Frontiers Media SA publication**  
April 2022 – present.

**Ad hoc Evaluation of Centre for Neurovisceral Sciences & Women's Health Pilot & Feasibility Submissions.**  
University of California at Los Angeles, CA – September 2006.

### **Ad Hoc reviewer for the following specialized journals:**

Biological Psychiatry,	Behavioral Brain Research,
Behavioral Neuroscience,	Brain Research,
Brain Research Bulletin,	Current Zoology
European Journal of Neuroscience,	Experimental Neurology

Frontiers in Behavioral Neuroscience  
Journal of Comparative Neurology,  
Journal of Neuroendocrinology  
Learning & Memory,  
Neuropsychopharmacology,  
Neurobiology of Learning and Memory,  
Physiology & Behavior,  
Psychopharmacology,  
Scientific Report,

Genes, Brain and Behavior,  
Journal of Neuroscience,  
Journal of Neurochemistry,  
Molecular and Cellular Endocrinology,  
Nature Neuroscience,  
Neurobiology of Stress,  
Psychoneuroendocrinology  
PLoS One,  
Stress: The International Journal on the Biology of Stress

**Internal (scholarly) proposal reviewer for determination of Harris Faculty Fellowship**  
Grinnell College, Dean of the College.

**Book reviewer for:**

Prentice Hall: Klein, S.B. & Thorne, M. *Biological Psychology* (2<sup>nd</sup> Ed.).  
Wadsworth Publishing: Anonymous. *Foundations of Biological Psychology* (1<sup>st</sup> Ed.).  
Worth Publishers: Myers, D. *Psychology* (7<sup>th</sup> Ed.).  
McGraw Hill: Anonymous. *Biology. Machinery of the Mind* (Introductory Psychology textbook in preparation).

**Served on Panel to determine the need for a new biological psychology textbook at Oxford University Press**  
(Oct. 2001)

**Served as Poster Judge at Front Range Neuroscience Group 2<sup>nd</sup> annual meeting in Fort Collins, Colorado,**  
Nov. 2004.

**Served as Poster Judge at Front Range Neuroscience Group 3<sup>rd</sup> annual meeting in Fort Collins, Colorado,**  
Dec. 2005.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado,**  
Nov. 2009.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado,**  
Dec. 2010.

**Served as Poster Judge at the "Future Leaders of Research", University of Colorado, Boulder, Colorado,**  
June 2011.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado,**  
Dec. 2012.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado,**  
Dec. 2013.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado,**  
Dec. 2014.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado,**  
Dec. 2018.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado,**  
Dec. 2019.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado,**  
Dec. 2022.

**Served as Poster Judge at Front Range Neuroscience Group annual meeting in Fort Collins, Colorado, Dec. 2023.**

**General Media News:**

Interview with Lauren Glendenning, Reporter with the Vail Trail (Vail, CO) on “Brain needs fitness too”, Nov. 2007.

Article written by Jeff Thomas, freelance writer: "Adolescent caffeine use may raise anxiety-disorder risk", published in the Colorado Arts & Sciences Magazine, University of Colorado Boulder, March 2016.

**Community Outreach Services:**

Science Fair Judge during the 2004 Roche Colorado Regional Science Fair, March 2004.

Science Fair Judge during the 2005 Roche Colorado Regional Science Fair, March 2005.

Science Fair Judge during the 2006 Roche Colorado Regional Science Fair, March 2006.

Science Fair Judge during the 2006 Fireside Elementary Science Fair, April 2006.

Roche Colorado Boulder Valley Research Symposium Judge at Monarch High School, April 2007.

Science Fair Judge during the 2007 Fireside Elementary Science Fair, April 2007.

Science Fair Judge during the 2008 Roche Colorado Regional Science Fair, March 2008.

Science Fair Judge during the 2008 Fireside Elementary Science Fair, April 2008.

Science Fair Judge during the 2009 Fireside Elementary Science Fair, April 2009.

Science Fair Judge during the 2010 Fireside Elementary Science Fair, April 2010.

Science Fair Judge during the 2011 Fireside Elementary Science Fair, April 20<sup>th</sup>, 2011.

Science Fair Judge during the 2012 Fireside Elementary Science Fair, April 25<sup>th</sup>, 2012.

Science Fair Judge during the 2013 Fireside Elementary Science Fair, April 24<sup>th</sup>, 2013.