

CURRICULUM VITAE

Travis Ellington Hodges, Ph.D.

Assistant Professor

ADDRESS:

Department of Psychology and Education
Mount Holyoke College
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POST-SECONDARY EDUCATION

- 2014/09 - 2018/09 **PhD, Psychology - Behavioural & Cognitive Neuroscience, Brock University**
PhD Thesis: Patterns of endocrine, behavioural, and neural function underlying social deficits after social instability stress in adolescent rats
(Supervisor: Dr. Cheryl M. McCormick)
- 2012/09 - 2014/08 **MA, Psychology - Behavioural & Cognitive Neuroscience, Brock University**
Master's Thesis: Effects of social context on endocrine function and Zif268 expression in response to an acute stressor in adolescent and adult rats (Supervisor: Dr. Cheryl M. McCormick)
- 2007/09 - 2012/05 **BA (honours), Psychology, University of Manitoba**
Honours Thesis: Brood size preference similarities in wild and domestic mallard ducklings (Supervisor: Dr. L. James Shapiro)
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EMPLOYMENT RECORD

- 2022/07 - present Assistant Professor, Department of Psychology and Education, Mount Holyoke College, South Hadley, MA, USA
- 2018/09 - 2022/06 Postdoctoral Researcher, Behavioural Neuroendocrinology Lab (Supervisor: Dr. Liisa Galea), Djavad Mowafaghian Centre for Brain Health, The University of British Columbia, Vancouver BC, Canada
- 2012/09 - 2018/04 Teaching Assistant, Psychology Department, Brock University, St. Catharines ON, Canada
- 2011/12 - 2012/08 Animal Care Technician, University of Manitoba Animal Care and Holding Facility, University of Manitoba, Winnipeg MB, Canada
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RESEARCH FUNDING

- 2023/01 - 2028/01 Galea (PI), Hodges +5 (co-PIs)
Canadian Institute for Health Research (CIHR) (\$193,545.00 CAD per year)
Title: Sex differences in Neural and Molecular Mechanisms Underlying Negative

2020/10 - 2021/10	Cognitive Bias Hodges (PI) Women's Health Research Institute Catalyst Grant (\$25,000.00 CAD per year) Title: The role of neuroinflammation in adolescent female negative cognitive bias
2019/09 - 2020/08	Hodges (PI) Institute of Mental Health Marshall Fellows Program (\$80,000.00 CAD per year) Title: Neural mechanisms underlying sex differences in depression and negative cognitive bias in susceptible populations
2015/09 - 2018/08	Hodges (PI) Natural Sciences and Engineering Research Council of Canada (NSERC), Canada Graduate Scholarships-Doctoral (PGS D3) (\$21,000.00 CAD per year) Title: Epigenetic Modifications in Response to Social Experiences in Adolescent Rats

ACADEMIC DISTINCTIONS AND AWARDS

2024/11	Travel Fellow Award – Winter Conference of Brain Research, Lake Tahoe, CA, United States (\$1950.00 USD)
2024/01 - 2024/05	Student Assistant Grant, Spring 2024 – Mount Holyoke College, South Hadley, MA, United States (\$2000.00 USD)
2024/05	Research Support Grant Award, Spring 2024 – Mount Holyoke College, South Hadley, MA, United States (\$1000.00 USD)
2023/04	Research Support Grant Award, Spring 2023 – Mount Holyoke College, South Hadley, MA, United States (\$2500.00 USD)
2022/06	Best research poster award - DMCBH Research Retreat, University of British Columbia Okanagan, Kelowna, BC, Canada (\$100.00 CAD)
2022/06	Best speed research presentation award - DMCBH Research Retreat, University of British Columbia Okanagan, Kelowna, BC, Canada (\$25.00 CAD)
2022/05	Travel Award - The UBC Faculty of Graduate and Postdoctoral Studies 2022/23 Q1 PDF Travel Awards competition (\$250.00 CAD)
2022/05	Travel Award - Women's Health Research Cluster Conference Award (\$250.00 CAD)
2020/11	First place oral research presentation award - Tri-Cluster Research Day (Virtual), University of British Columbia, Vancouver, BC, Canada (\$100.00 CAD)
2020/09 - 2021/08	Djavad Mowafaghian Centre for Brain Health General Award, University of British Columbia, Vancouver, BC, Canada (\$5000.00 CAD)
2020/05	Young Investigator Award - Women's Health Research Cluster, Vancouver, BC, Canada
2019/11	Second Place Oral Research Presentation Award - Tri-Cluster Research Day, University of British Columbia, Vancouver, BC, Canada (\$75.00 CAD)
2019/03	Travel Award – International Behavioral Neuroscience Society (IBNS) conference, Cairns, Australia (\$1000.00 USD)
2019/02	Travel Award - Canadian Institutes of Health Research (CIHR) travel award for joint meeting of the Organization for the Study of Sex Differences (OSSD) and the International Society of Gender Medicine (IGH) 2019 (up to \$4000.00 CAD)
2015/05 - 2015/08	Dean of Graduate Studies Spring Research Fellowship, Brock University (\$4,000.00 CAD)
2012/01	Horace Patterson Foundation Scholarship (\$1000.00 CAD)

OTHER DISTINCTIONS AND AWARDS

2007/08	MAST Student Citizenship (Group) Award, The Manitoba Association of School
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2007/08	Trustees
2007/08	Young Humanitarian Certificate of Recognition, The Manitoba Teachers' Society
	Global Citizenship Award, Manitoba Council for International Cooperation

PUBLICATIONS

MY FULL BIBLIOGRAPHY

Google scholar:

https://scholar.google.ca/citations?hl=en&user=at1OhXYAAAAJ&view_op=list_works&sortby=pubdate

NCBI:

<https://www.ncbi.nlm.nih.gov/myncbi/1Nqcszffmui5h6/bibliography/public/>

Below, my name is in **bold** and the students I have mentored are underlined

JOURNAL ARTICLES

SUBMITTED/IN REVISION

1. Garcia de Leon, R., Hodges, T. E., & Galea, L. A. M. (In revision). Inflammatory Signalling During the Peripartum Period: Implications for Short and Long-Term Disease risk. *Psychoneuroendocrinology*. (IF: 4.693)

PUBLISHED/ACCEPTED/IN PRESS (IF: impact factor)

22. Lee, B., Eid, R., **Hodges, T. E.**, Barth, C., & Galea, L. A. M. (accepted). Leveraging sex differences and sex hormones to improve brain health. *Nature Reviews Endocrinology*. (IF: 47.564)
21. Orsini, C. A., Brown, T. E., **Hodges, T. E.**, Alonso-Caraballo, Y., Winstanley, C., & Becker, J. B. (2022). Neural mechanisms mediating sex differences in motivation for reward: food and drugs of abuse. *The Journal of Neuroscience*, 42(45), 8477-8487. (IF: 6.709)
20. Wolcott, N. S., Sit, K. K., Raimondi, G., **Hodges, T. E.**, Shansky, R. M., Galea, L. A. M., Ostroff, L. E., & Goard, M. J. (2022). Automated classification of estrous stage in rodents using deep learning. *Scientific Reports*, 12(1), 17685. (IF: 4.996)
19. **Hodges, T. E.**, Lieblich, S. E., Rechlin, R. K., & Galea, L. A. M. (2022). Sex differences in inflammation in the hippocampus and amygdala across the lifespan in rats: associations with cognitive bias. *Immunity and Ageing*, 19(1), 1-14. (IF: 6.4)
18. **Hodges, T. E.**, Lee, G. Y., Noh, S. H., & Galea, L. A. M. (2022). Sex and age differences in cognitive bias and neural activation in response to cognitive bias testing. *Neurobiology of Stress*, 18 (100458). (IF: 5.441)
17. Rechlin, R. K., Splinter, T. F. L., **Hodges, T. E.**, Albert, A. Y., & Galea, L. A. M. (2022). An analysis of neuroscience and psychiatry papers published from 2009 and 2019 outlines opportunities for increasing discovery of sex differences. *Nature Communications*, 13(1), 1-14. (IF: 14.92)
16. Asgari, P., McKinney, G., **Hodges, T. E.**, & McCormick, C. M. (2021). Social Instability Stress in Adolescence and Social Interaction in Female Rats. *Neuroscience*, 477, 1-13. (IF: 3.382)
15. Murphy, K. J., **Hodges, T. E.**, Sheppard, P. A. S., Troyer, A. K., Hampson, E., & Galea, L. A. M. (2020). Sex differences in cortisol and memory following acute social stress in amnesic mild cognitive impairment. *Journal of Clinical and Experimental Neuropsychology*, 42(9), 881-901. (IF: 1.958)
14. McCormick, C. M., Smith, K., Baumbach, J. L., Lima, P., Shaver, M., **Hodges, T. E.**, Marcolin, M. L., & Ismail, N. (2020). Adolescent social instability stress leads to immediate and lasting sex-specific changes in the neuroendocrine-immune-gut axis in rats. *Hormones and Behavior*, 126, 104845. (IF: 4.418)
13. *Qiu, W., ***Hodges, T. E.**, Clark, E., Blankers, S., & Galea, L. A. M. (2020). Perinatal depression: Heterogeneity of disease and in animal models. *Frontiers in Neuroendocrinology*, 59, 100854. (IF: 9.059) *denotes shared first author

12. Marcolin, M. L., **Hodges, T. E.**, Baumbach, J. L., & McCormick, C. M. (2020). The effects of social instability stress and ethanol binge drinking in adolescence on brain and behavioural development in male rats. *Alcohol*, 58, 29-45. (IF: 2.528)
11. **Hodges, T. E.**, Eltahir, A. M., Patel, S., Bredewold, R., Veenema, A. H., & McCormick, C. M. (2019). Effects of oxytocin receptor antagonism on social function and corticosterone release after adolescent social instability in male rats. *Hormones and Behavior*, 116, 104579. (IF: 4.418)
10. Green, M. R., Zeidan, M., **Hodges, T. E.**, & McCormick, C. M. (2019). Age-dependent regulation by androgens of the HPA axis and neural gene expression in adolescent and adult male rats. *Journal of Neuroendocrinology*, 31, e12714. (IF: 3.392)
9. **Hodges, T. E.**, Louth, E. L., Bailey, C. D. C., & McCormick, C. M. (2019). Adolescent social instability stress alters markers of synaptic plasticity and dendritic structure in the medial amygdala and lateral septum in male rats. *Brain Structure and Function*, 224(2), 643-659. (IF: 4.231)
8. Marcolin, M. L., **Hodges, T. E.**, Baumbach, J. L., & McCormick, C. M. (2019). Adolescent social stress and social context influence the intake of ethanol and sucrose in male rats soon and long-after the stress exposures. *Developmental Psychobiology*, 61, 81-95. (IF: 2.494)
7. **Hodges, T. E.**, Baumbach, J. L., & McCormick, C. M. (2018). Predictors of social instability stress effects on social interaction and anxiety in adolescent male rats. *Developmental Psychobiology*, 60, 651-663. (IF: 2.494)
6. **Hodges, T. E.**, Baumbach, J. L., Marcolin, M. L., Bredewold, R., Veenema, A. H., & McCormick, C. M. (2017). Social instability stress in adolescent male rats reduces social interaction and social recognition performance and increases oxytocin receptor binding. *Neuroscience*, 359, 172-182. (IF: 3.382)
5. McCormick, C. M., Cameron, N. M., Thompson, M. A., Cumming, M. J., **Hodges, T. E.**, Langett, M. (2017). The sexual preference of female rats is influenced by males' adolescent social stress history and social status. *Hormones and Behavior*, 89, 30-37. (IF: 4.418)
4. **Hodges, T. E.**, & McCormick, C. M. (2015). Adolescent and adult male rats habituate to repeated isolation, but only adolescents sensitize to partner unfamiliarity. *Hormones and Behavior*, 69, 16-30. (IF: 4.418)
3. McCormick, C. M., **Hodges, T. E.**, & Simone, J. J. (2015). Peer pressures: Social instability stress in adolescence and social deficits in adulthood in a rodent model. *Developmental Cognitive Neuroscience*, 11, 2-11. (IF: 4.815)
2. Simone, J. J., Green, M. R., **Hodges, T. E.**, & McCormick, C. M. (2015). Differential effects of CB1 receptor agonism in behavioural tests of unconditioned and conditioned fear in adult male rats. *Behavioural Brain Research*, 279, 9-16. (IF: 3.173)
1. **Hodges, T. E.**, Green, M. R., Simone, J. J., & McCormick, C. M. (2014). Effects of social context on endocrine function and Zif268 expression in response to an acute stressor in adolescent and adult rats. *International Journal of Developmental Neuroscience*, 35, 25-34. (IF: 2.495)

BOOK CHAPTERS

PUBLISHED/ACCEPTED/IN PRESS

3. **Hodges, T. E.**, Puri, T. A., Blankers, S., Qiu, W., & Galea, L. A. M. (2021). Steroid Hormones and Hippocampal Neurogenesis in the Adult Mammalian Brain. Chapter in G. Litwick (Ed.) *'Hormones, Regulators and Hippocampus'*. Academic Press, MA.
2. **Hodges, T. E.** & McCormick, C. M. (2018). Stress and social development in adolescence in a rodent model. Chapter in O. Schultheiss & P. Mehta (Ed.) *'Routledge International Handbook of Social Neuroendocrinology'*. Routledge, Taylor & Francis, UK.
1. McCormick, C. M., & **Hodges, T. E.** (2017). Stress, glucocorticoids, and brain development in rodent models. Chapter in G. Fink (Ed.) *'Stress: Neuroendocrinology and Neurobiology. Handbook of Stress Series, Volume 2'*. Elsevier, NY.

PRESENTATIONS AT SCIENTIFIC MEETINGS/ PUBLISHED ABSTRACTS

ORAL SYMPOSIUM PRESENTATIONS

6. **Hodges, T. E.** (2024, August). Sex-Specific Cognitive Bias and the Maturing Brain in rats. Frontal Cortex Gordon Research Conference (GRC), Holderness, New Hampshire, USA.
5. **Hodges, T. E.** (2023 May). Sex differences in the effects of chronic stress on negative cognitive bias and inflammation in rats. Organization for the Study of Sex Differences Conference, Calgary, Alberta, Canada. (International)
4. **Hodges, T. E.** (2022 November). Risky adolescents: Sex and age differences in cognitive bias. Society for Neuroscience Conference, San Diego, California, United States.
3. **Hodges, T. E.** (2020, November). Grumpy old males: Sex and age differences in cognitive bias. Event: Virtual Frank Beach Award and Hormone and Behavior Presidential Symposium. Society of Behavioral Neuroendocrinology. (International) (Virtual)
2. **Hodges, T. E., Lee, G.Y., Noh, S.H.,** Gazor, N., & Galea, L. A. M. (2020, May). Sex-specific behaviours in a fear-based cognitive bias task. Women's brain health: young investigator symposium. (International) (Virtual)
1. **Hodges, T. E.,** & McCormick, C. M. (2019, June). Social curiosity in the socially awkward teen: influence of adolescent stress on social recognition and the social salience network. International Behavioral Neuroscience Society Conference, Cairns, Queensland, Australia.

ORAL PRESENTATIONS

6. Singh, S., Hodges, T. E., & Galea, L. A. M. (2021, April). The effect of chronic unpredictable stress on fearful responses during a fear-based cognitive bias task in male and female rats. Psychology Undergraduate Research Conference. (Provincial) (Virtual)
5. Singh, S., Hodges, T. E., & Galea, L. A. M. (2021, March). Chronic unpredictable stress increases fearful responses but does not increase negative cognitive bias in male and female rats. Multidisciplinary Undergraduate Research Conference. (Provincial) (Virtual)
4. **Hodges, T. E.** & Galea, L. A. M. (2020, November). Sex and age differences in hippocampal and amygdala neural activity and functional connectivity in response to cognitive bias in rats. Tri-Cluster Research Day. (Provincial) (Virtual)
3. **Hodges, T. E., Lee, G.Y., Noh, S.H.,** Gazor, N., Galea, L. A. M. (2019, November). Neural mechanisms underlying age- and sex-specific cognitive biases in rats. Tri-Cluster Research Day, Vancouver, BC, Canada. (Provincial)
2. **Hodges, T. E., Baehring, S.,** Galea, L. A. M. (2019, June). Hippocampal mechanisms underlying sex differences in negative cognitive bias in adult rats. International Behavioral Neuroscience Society Conference, Cairns, Queensland, Australia. (International)
1. **Hodges, T. E.,** Bailey, C. D. C., Louth, E. L., & McCormick, C. M. (2018, July). Effects of adolescent social stress on synaptic plasticity markers and neuron morphology in rats. International Congress of Neuroendocrinology, Toronto, ON, Canada. (National)

POSTER PRESENTATIONS

40. Lotman, A., Amato, M. A. G., Xu, B., Zhu, S., Ten Kate, C., & **Hodges, T.E.** (2024, October). The effects of social instability stress on tests of anxiety-like and depressive-like behavior, and correlations with cognitive bias in male and female rats. UMass Amherst/UMass Chan Medical School neuroscientist and neurobiologist meet-up, Amherst, MA, United States.
39. Ye, X., Haefele, R., Gu, P., Nam, J., Asha, S., & **Hodges, T.E.** (2024, October). Adolescent social instability stress affects cognitive bias in male and female rats across the lifespan. UMass Amherst/UMass Chan Medical School neuroscientist and neurobiologist meet-up, Amherst, MA, United States.
38. Lotman, A., Amato, L., Churchill, L., Rhodes, J., Daudzai, H., Hung, K., Gu, P., Radpour, G., Ten Kate, C., & **Hodges, T.E.** (2024, July). The effect of adolescent social instability stress on cognitive bias in male and female rats across the lifespan. Mount Holyoke College Summer Symposium, Mount Holyoke College, South Hadley, MA, United States. (Internal)

37. **Hodges, T.E. & Htet, L.** (2024, May). Sex-specific neural activity in response to a reward-based cognitive bias task. Organization of the Study of Sex Differences Conference, Bergen, Norway. (International)
36. **Htet, L., & Hodges, T.E.** (2024, April). Sex-specific effects and functional connectivity between nucleus accumbens, dorsal hippocampus, and amygdala involved in reward-based cognitive bias. NEURON conference, North Haven, CT, United States. (National)
35. **Nam, J., Lin, C., Htet, L., & Hodges, T.E.** (2023, September). The sex-specific effects of different high rewards on a reward-based cognitive bias task. University of Massachusetts Amherst Center for Neuroendocrine Studies Symposium 2023, Amherst, MA, United States. (National)
34. **Nam, J., Lin, C., Htet, L., & Hodges, T.E.** (2023, July). The sex-specific effects of different high rewards on a reward-based cognitive bias task. Mount Holyoke College Summer Symposium, Mount Holyoke College, South Hadley, MA, United States. (Internal)
33. **Hodges, T. E. & Galea, L. A. M.** (2023, May). Sex differences in the effects of chronic stress on negative cognitive bias and inflammation in rats. Organization of the Study of Sex Differences Conference, Calgary, Alberta, Canada. (International)
32. **Hodges, T. E. & Galea, L. A. M.** (2022, December). Chronic stress affects negative cognitive bias and related inflammation in a sex-specific manner in rats. American College of Neuropsychopharmacology Conference, Phoenix, Arizona, United States. (National) (Virtual)
31. **Hodges, T. E., Kwok, C., & Galea, L. A. M.** (2022, May). Sex differences in neural activation related to negative cognitive bias after chronic stress exposure. Organization for the Study of Sex Differences Conference, Marina Del Rey, CA, United States. (International)
30. **Namchuk, A. B., Hodges, T. E., & Galea, L. A. M.** (2022, May). Sex-specific effects of inhibiting glutamatergic cells in the hippocampus on stress-induced cognitive bias. Organization for the Study of Sex Differences Conference, Marina Del Rey, CA, United States. (International)
29. **Lee, B. H., Cevizci, M., Lieblich, S. E., Hodges, T. E., & Galea, L. A. M.** (2022, May). APOE ϵ 4 genotype differentially influences hippocampal neurogenesis in middle age depending on sex. Organization for the Study of Sex Differences Conference, Marina Del Rey, CA, United States. (International)
28. **Hodges, T. E. & Galea, L. A. M.** (2021, June - July). Sex differences in negative cognitive bias across the lifespan: relation to neuroinflammation. Society of Behavioral Neuroendocrinology Conference. (International) (Virtual)
27. Digital Poster Presentation: **Hodges, T. E. & Galea, L. A. M.** (2021, June). Sex differences in the relationship between negative cognitive bias and neuroinflammation after chronic unpredictable stress in rats. International Behavioral Neuroscience Society Conference. (International) (Virtual)
26. Digital Poster Presentation: **Hodges, T. E., Singh, S., & Galea, L. A. M.** (2021, May). Chronic stress effects on negative cognitive bias and neuroinflammation in male and female rats. Organization for the Study of Sex Differences Conference. (International) (Virtual)
25. Digital Poster Presentation: **Hodges, T. E. & Galea, L. A. M.** (2020, November). Sex and age differences in hippocampal and amygdala neural activity and functional connectivity in response to cognitive bias in rats. Tri-Cluster Research Day. (Provincial) (Virtual)
24. Digital Poster Presentation: **Hodges, T. E., Noh, S.H., Lee, G.Y., & Galea, L. A. M.** (2020, October). Male rats are more pessimistic than female rats in middle-age: Examining negative cognitive biases and neural correlates using a rodent model. Canadian Consortium on Neurodegeneration in Aging PFSD20 Conference. (National) (Virtual)
23. Digital Poster Presentation: **Hodges, T. E., Noh, S.H., Lee, G.Y., & Galea, L. A. M.** (2020, August). Sex- and age-specific roles of the amygdala and hippocampal subregions in fear-based cognitive bias in rats. International Behavioral Neuroscience Society Conference. (International) (Virtual)
22. Poster Presentation: **Lee, G.Y., Noh, S.H., Gazor, N., Hodges, T. E., & Galea, L. A. M.** (2019, November). Sex and age differences in behaviour in response to a fear-based cognitive bias task and neural correlates in rats. University of British Columbia Life Sciences Research Night, Vancouver, BC, Canada.
21. Poster Presentation: **Hodges, T. E., Lee, G.Y., Noh, S.H., Gazor, N., & Galea, L. A. M.** (2019, November). Neural mechanisms underlying age- and sex-specific cognitive biases in rats. Tri-Cluster Research Day, Vancouver, BC, Canada.

20. Poster Presentation: **Hodges, T. E.**, & Galea, L. A. M. (2019, October). A sex-specific role of the basolateral amygdala in fear-based cognitive bias in adult rats. Society for Neuroscience Conference, Chicago, IL, United States.
19. Poster Presentation: **Hodges, T. E.**, Baehring, S., & Galea, L. A. M. (2019, June). Hippocampal mechanisms underlying sex differences in negative cognitive bias in adult rats. International Behavioral Neuroscience Society Conference, Cairns, Queensland, Australia.
18. Poster Presentation: **Hodges, T. E.**, Lee, B., Hynes, T. J., Silveira, M. M., Betts, G. D., Kaur, S., Ferland, J-M. N., Hurd, Y., Orr, C., Garavan, H., Winstanley, C. A., Galea, L. A. M. (2019, May). A single exposure to Δ^9 -tetrahydrocannabinol reduces cell proliferation in the dorsal hippocampus and nucleus accumbens of peripubertal male, but not female, rats. Organization for the Study of Sex Differences Conference, Washington, DC, United States.
17. Poster Presentation: **Hodges, T. E.**, Eltahir, A. M., & McCormick, C. M. (2018, July). Oxytocin receptor antagonism, social behaviour, & corticosterone release in adolescent-stressed rats. International Congress of Neuroendocrinology, Toronto, ON, Canada.
16. Poster Presentation: Eltahir, A. M., **Hodges, T. E.**, & McCormick, C. M. (2018, May). Social instability alters social behaviour and reduces corticosterone release after oxytocin receptor antagonism in adolescent male rats. Southern Ontario Neuroscience Association Conference, Guelph, ON, Canada.
15. Poster Presentation: Zeidan, M., Green, M. R., **Hodges, T. E.**, & McCormick, C. M. (2018, May). Testosterone's regulation of the HPA axis differs for adolescent and adult male rats. Southern Ontario Neuroscience Association Conference, Guelph, ON, Canada.
14. Poster Presentation: Marcolin, M. D., **Hodges, T. E.**, & McCormick, C. M. (2017, May). Effect of social instability stress and social context on the intake of ethanol and sucrose in adolescent male rats. Southern Ontario Neuroscience Association Conference, St. Catharines, ON, Canada.
13. Poster Presentation: Baumbach, J. L., Fish, K. M., Flynt, K. J., **Hodges, T. E.**, & McCormick, C. M. (2017, May). Reduced Fos expression to social interaction and altered synaptic plasticity in social brain areas after social instability stress in adolescent male rats. Southern Ontario Neuroscience Association Conference, St. Catharines, ON, Canada.
12. Poster Presentation: Baumbach, J. L., **Hodges, T. E.**, & McCormick, C. M. (2016, May). Effects of social instability stress in adolescent rats on olfactory neurogenesis and social memory. Southern Ontario Neuroscience Association Conference, Waterloo, ON, Canada.
11. Poster Presentation: **Hodges, T. E.**, Marcolin, M. D., Baumbach, J. L., & McCormick, C. M. (2015, October). Social instability stress in adolescence reduces social interactions with novel peers and impairs social memory in male rats. Society for Neuroscience Conference, Chicago, IL, United States.
10. Poster Presentation: Marcolin, M. D., **Hodges, T. E.**, Baumbach, J. L., & McCormick, C. M. (2015, October). Social instability stress in adolescence alters the effects of social context on ethanol consumption. Society for Neuroscience Conference, Chicago, IL, United States.
9. Poster Presentation: Green, M., McLaren, M., **Hodges, T. E.**, & McCormick, C. M. (2015 October). Effects of testosterone on hypothalamic-pituitary-adrenal function before, during, and after puberty in male rats. Society for Neuroscience Conference, Chicago, IL, United States.
8. Poster Presentation: **Hodges, T. E.**, Marcolin, M. L., Baumbach, J. L., & McCormick, C. M. (2015, May). Social instability stress reduces social interactions and improves social memory in adolescent male rats. Southern Ontario Neuroscience Association Conference, Hamilton, ON, Canada.
7. Poster Presentation: **Hodges, T. E.** & McCormick, C. M. (2014, November). Social context differentially modulates neural Zif268 expression, behaviour, and endocrine function in response to acute and repeated stress in adolescent and adult male rats. Society for Neuroscience Conference, Washington, DC, United States.
6. Poster Presentation: Simone, J. J., Green, M. R., **Hodges, T. E.**, & McCormick, C. M. (2014, November). Effects of CB1 receptor agonism and antagonism on fear and stress responses in adult male rats. Society for Neuroscience Conference, Washington, DC, United States.
5. Poster Presentation: **Hodges, T. E.**, Vasseur, J. C., & McCormick, C. M. (2014, May). Social buffering of endocrine and behavioural responses to repeated isolation differ between adolescent and adult male rats. Southern Ontario Neuroscience Association Conference, London, ON, Canada.

4. Poster Presentation: Green, M. R., **Hodges, T. E.**, Simone, J. J., McCormick, C. M. (2014, May). Testosterone regulation of hypothalamic-pituitary-adrenal function in adolescent and adult male rats. Southern Ontario Neuroscience Association Conference, London, ON, Canada.
3. Poster Presentation: Simone, J. J., Green, M. R., **Hodges, T. E.**, & McCormick, C. M. (2014, May). Differential modulation of unconditioned and conditioned fear by CB1 receptors in adult male rats. Southern Ontario Neuroscience Association Conference, London, ON, Canada.
2. Poster Presentation: **Hodges, T. E.**, & McCormick, C. M. (2013, May). Social moderation of endocrine responses to a stressor in adolescent and adult rats. Southern Ontario Neuroscience Association Conference, Waterloo, ON, Canada.
1. Poster Presentation: *Caldwell, K. D., **Hodges, T. E.**, & Shapiro, L. J. (2012, April). A comparison of brood size preferences in wild and domestic mallard ducklings: implications for conservation. Prairie Undergraduate Research Conference, Winnipeg, MB, Canada. *Shared first author

TEACHING ACTIVITIES

COURSES TAUGHT

2024 Fall Term	Ethology (PSYCH 350). Professor: Travis Hodges. Mount Holyoke College.
2024 Fall Term	Hormones and Behavior (PSYCH/NEURO 256). Professor: Travis Hodges. Mount Holyoke College.
2024 Spring Term	Ethology (PSYCH 350). Professor: Travis Hodges. Mount Holyoke College.
2024 Spring Term	Research Methods in Psychology (PSYCH 204). Professor: Travis Hodges. Mount Holyoke College.
2023 Fall Term	Ethology (PSYCH 350). Professor: Travis Hodges. Mount Holyoke College.
2023 Fall Term	Hormones and Behavior (PSYCH/NEURO 256). Professor: Travis Hodges. Mount Holyoke College.
2023 Spring Term	Research Methods in Psychology (PSYCH 204). Professor: Travis Hodges. Mount Holyoke College.
2023 Spring Term	Hormones and Behavior (PSYCH/NEURO 256). Professor: Travis Hodges. Mount Holyoke College.
2022 Fall Term	Hormones and Behavior (PSYCH/NEURO 256). Professor: Travis Hodges. Mount Holyoke College.

OTHER FULL LECTURES

2016/11/02	Lecturer – Title of lecture: Measurement of stress hormones. Course: Stress (PSYC 3P75). Professor: Dr. Cameron Muir. Brock University
2016/10/26	Lecturer – Title of lecture: Stress and reproduction. Course: Stress (PSYC 3P75). Professor: Dr. Cameron Muir. Brock University
2016/10/19	Lecturer – Title of lecture: Defining and measuring stress. Course: Stress (PSYC 3P75). Professor: Dr. Cameron Muir. Brock University

INVITED GUEST LECTURES

2024/02/07	Title of lecture: My journey through academia. Course: Professional Issues. Professor: Dr. Stephen Emrich. Brock University.
2021/10/12	Title of lecture: Adolescent rats: The pros and cons of a developing brain. Course: Hopscotch, Soccer, and Broccoli: Implications of Neuroscience for Promoting Children's Brain Health. Professor: Dr. Lauren Raine. Northeastern University.
2021/10/07	Title of lecture: Adolescence and puberty and the effects of sex hormones on the brain and stress responding. Course: Behavioural Neuroendocrinology (PSYC 460). Instructor: Wansu Qiu. University of British Columbia.
2019/11/14	Title of lecture: Experimental design in behavioural and neuroscientific research (non-human animals)/ measuring cognitive bias in rats. Course: Behavioural and

	Neuroscientific Research Methods (PSYC 277). Professor: Dr. Ipek Oruc. University of British Columbia.
2019/10/31	Title of lecture: Adolescence and puberty and the effects of sex hormones on the brain and stress responding. Course: Behavioural Neuroendocrinology (PSYC 460). Professor: Dr. Parker Holman. University of British Columbia.
2018/11/15	Title of lecture: Experimental design in behavioural and neuroscientific research (non-human animals). Course: Behavioural and Neuroscientific Research Methods (PSYC 277). Professor: Dr. Ipek Oruc. University of British Columbia.
2016/03/18	Title of lecture: The challenges of animal research. Course: Research Methods (PSYC 3F40). Professor: Dr. Tanya Martini. Brock University.
2015/1/28	Title of lecture: Stress and adolescent development. Course: Stress (PSYC 3P75). Professor: Dr. Chrissy Lackner. Brock University.
2014/1/25	Title of lecture: Adolescent development and vulnerability to stressors. Course: Maturation and Development (PSYC 4P69). Professor: Dr. Chrissy Lackner. Brock University.

TEACHING ASSISTANTSHIPS

2018/01 - 2018/04	Teaching Assistant: Human Sexuality (PSYC 3P34), Brock University
2017/09 - 2017/12	Teaching Assistant: Critical Thinking (PSYC 3P30), Brock University
2017/09 - 2017/12	Teaching Assistant: Perception (PSYC 2P49), Brock University
2017/01 - 2017/04	Teaching Assistant: Human Sexuality (PSYC 3P34), Brock University
2016/09 - 2016/12	Teaching Assistant: Stress (PSYC 3P75), Brock University
2016/01 - 2016/04	Teaching Assistant: Stress (PSYC 3P75), Brock University
2015/09 - 2015/12	Teaching Assistant: Human Sexuality (PSYC 3P34), Brock University
2015/01 - 2015/04	Teaching Assistant: Human Sexuality (PSYC 3P34), Brock University
2014/09 - 2014/12	Teaching Assistant: Perception (PSYC 2P49), Brock University
2014/01 - 2014/04	Teaching Assistant: Stress (PSYC 3P75), Brock University
2013/09 - 2013/12	Teaching Assistant: Perception (PSYC 2P49), Brock University
2013/01 - 2013/04	Teaching Assistant: Perception (PSYC 2P49), Brock University
2012/09 - 2012/12	Teaching Assistant: Brain and Behaviour (PSYC 2P35/NEUR 2P36), Brock University

MENTEES	DATES MENTORED	MENTORSHIP TYPE	MENTEE AWARDS	CURRENT POSITION
<u>Mount Holyoke College</u>				
Xingshao Ye	2024/09-present	Independent Study		
Maria Clara Menezes Kloppenburger Soares	2024/09-present	Research Assistant		
Yiru Wang	2024/09-present	Independent Study		
Ruimeng (Becky) Xu	2024/09-present	Independent Study		
Sydea Asha	2024/09-present	Independent Study		
Emily Steadman	2024/05-present	Lynk-funded Research Assistant, Independent Study		
Grace Simpson	2024/05-present	Lynk-Funded Research Assistant, Independent Study		
Reeve Haefele	2024/01-present	Independent Study		
Shanshan (Shane) Zhu	2024/01-present	Independent Study		
Jessie Rhodes	2024/01-present	Independent Study		
Gillian Radpour	2024/01-2024/05	Independent Study		

Persephone Gu	2024/01-present	Independent Study		
Olivia Churchill	2024/01-2024/05	Independent Study		
Callie Ten Kate	2023/09-present	Independent Study, MHC-funded Research Assistant		
Angelina Amato	2023/09-2024/08	Independent Study, Lynk-funded Research Assistant		
Tsz Ching (Kellie) Hung	2023/09-2024/05	Independent Study		MA, University of Toronto
Tongtong (Petra) Yang	2023/09-2023/12	Independent Study		RA, Shenzhen Bay Laboratory in China
Brielle Hunter	2023/09-2024/05	Independent Study		
Hayam Daudzai	2023/09-2024/05	Independent Study		
Annabeth Loftman	2023/01-2024/08	Independent Study, Lynk-funded Research Assistant		
Manuela Ribas	2023/01-present	Independent Study, Lynk-funded		
Chuying (Selestia) Lin	2023/01-2024/05	Lynk-funded Research Assistant, Independent Study	-UMASS Center for Neuroendocrine Studies Symposium 2023 – Best Poster Award	MA, University of Pennsylvania
Juddy Nam	2023/01-present	Lynk-funded Research Assistant, Independent Study, Honors Thesis	-UMASS Center for Neuroendocrine Studies Symposium 2023 – Best Poster Award	
Nicole Joh	2023/01-2023/05	Independent Study		
Lifen Htet	2023/01-2024/05	Independent Study, Honors Thesis	-UMASS Center for Neuroendocrine Studies Symposium 2023 – Best Poster Award	RA, Tufts University
<u>University of British Columbia</u>				
Cherise Kwok	2021/09-2022/04	Directed Studies		
Parteek Bal	2020/09-2021/04	Directed Studies		
Riona Carriaga	2020/09-2021/04	Directed Studies		
Surat Singh	2020/09-2021/04	Directed Studies		
Sophia Noh	2019/05-2020/08	Research Assistant	-Work Learn International Undergraduate Research Award (2020/05-2020/08) at UBC	
Grace Lee	2019/05-2020/08	Research Assistant	-2020 Summer Quinn	

			Research Award (2020/05-2020/08) at UBC
Niousha Gazor	2019/09-2020/04	Honors Thesis	
Stella Baehring	2018/09-2019/04	Directed Studies	-NSERC graduate award (2019/09-2021/08) at UBC
Akif Eltahir	2017/09-2018/04	Honors Thesis	
Jennet Baumbach	2015/01-2017/04	Honors Thesis	-Dean of Graduate Studies Spring Research Fellowship (2016/05-2016/08) and NSERC Undergraduate Student Research Award (2017/05- 2017/08) at Brock University
Kevin Flynt	2016/09-2017/04	Honors Thesis	
Kelsey Fish	2016/09-2017/04	Honors Thesis	
Julie Vasseur	2013/09-2014/04	Honors Thesis	

PROFESSIONAL DEVELOPMENT

2023/06	Reducing Pain and Distress in Laboratory Mice and Rats, Collaborative Institutional Training Initiative (CITI), Mount Holyoke College
2023/04	Working with the IACUC, Collaborative Institutional Training Initiative (CITI), Mount Holyoke College
2023/04	Working with Rats in Research Settings, Collaborative Institutional Training Initiative (CITI), Mount Holyoke College
2021/06 – 2021/08	CIHR Project: Internal Review Training Program, The University of British Columbia Support Programs to Advance Research Capacity (SPARC)
2019/01	Introduction to Aseptic Techniques in Rodent Surgery Course and Hands-on Laboratory, The University of British Columbia
2019/01	Radiation Safety Course: Open Sources, The University of British Columbia
2019/01	Introduction to Anesthesia of the Laboratory Rodent Course and Hands-on Laboratory, The University of British Columbia
2018/12	Rodent Restraint and Subcutaneous and Intraperitoneal Injections Course and Hands on Laboratory, The University of British Columbia
2018/12	Working with Rodents in Research Course and Hands-on Laboratory, The University of British Columbia
2018/09	Chemical Safety Course, The University of British Columbia
2018/09	Biological Safety Course, The University of British Columbia
2018/09	WHMIS and other Hazard Identification Systems, The University of British Columbia

SERVICE TO THE COMMUNITY

INVITED TALKS/PANELS

- 2024/11/20 Speaker. Talk Title: Neurogenesis and inflammation: Sex- and Age-Specific Factors Underlying Cognitive Bias in rats. Organization: Women’s Health Lecture Series, Emory University, Atlanta, GA, USA. (virtual)
- 2024/10/25 Panelist. Panel Title: Mental Health and Challenges in the LGBTQIA+ Neuro-Community. Organization: ALBA Network. (virtual)
- 2024/10/22 Speaker. Talk Title: Neurogenesis and inflammation: Sex- and Age-Specific Factors Underlying Cognitive Bias in rats. Organization: *Neuro Salon*, University of Massachusetts Amherst, Amherst, MA, USA.
- 2023/10/26 Speaker. Talk Title: Learned Pessimism: Sex-specific cognitive bias in rats. Organization: *Department of Psychology Colloquium*, Northeastern University, Boston, MA, USA
- 2023/04/24 Speaker. Talk Title: The Impact of Sex, Age, and Stress on Cognitive Bias. Organization: *WHRC Women’s Health Seminar Series*. Vancouver, BC, Canada (virtual)
- 2023/03/15 Speaker. Talk Title: Sex differences in cognitive bias: a role of inflammation and neurogenesis. Organization: *Neuroscience and Applied Cognitive Science*, University of Guelph. Guelph, ON, Canada (virtual)
- 2023/02/21 Speaker. Talk Title: Awkward adolescents and grumpy old males. Organization: *South Hadley Senior Center*. South Hadley, MA, USA
- 2022/11/09 Speaker. Talk Title: Grumpy old males and sex differences in negative cognitive bias. Organization: Hormones for Breakfast, University of Massachusetts, Amherst. Amherst, MA, USA
- 2022/07/27 Panelist. Panel Title: Accessibility and Inclusion. Organization: *Neuromatch Academy*. (International) (Virtual)
- 2020/11/21 Speaker. Talk Title: Grumpy old males: Sex and age differences in cognitive bias. Event: Society of Behavioral Neuroendocrinology Presidential “Hormones and Behavior” Symposium. Organization: *Society of Behavioral Neuroendocrinology*. (International) (Virtual)
- 2020/10/27 Speaker. Talk Title: Males are more pessimistic than females with age: Examining negative cognitive biases and neural correlates using a rat model. Organization: *University of California Davis Psychology Department*. (International) (Virtual)
- 2019/12/02 Panelist. Panel Title: Information about postdoctoral positions from alumni. Organization: *Brock University Psychology department*. Brock University, St. Catharines, ON, Canada (National) (Virtual)
- 2019/10/16 Speaker. Talk Title: The struggles of being a socially awkward adolescent rat. Organization: *Nerd Nite*. Vancouver, BC, Canada

INVITED EVENT CHAIR

- 2024/06 Chair. Where worlds collide: finding common ground between physiological and psychosocial stress. Organization: Stress Neurobiology Workshop 2024, Boston, MA, USA.
- 2022/07 Chair. PANS Trainee Virtual Symposium 2022 – Neuroendocrinology of Stress. Organization: Pan American Neuroendocrine Society. (International) (Virtual)

SOCIETY/ASSOCIATION MEMBERSHIPS

- 2021/07 - present Member, Black In Neuro
- 2021/07 - present Member, Canadian Black Scientists Network
- 2019/02 - present Member, Organization for the Study of Sex Differences
- 2019/01 - present Member, Women’s Health Research Cluster
- 2018/12 – 2022/07 Associate Trainee Member, Kids Brain Health Network
- 2018/11 - present Member, International Behavioral Neuroscience Society
- 2018/09 - present Affiliate Member, Women’s Health and Research Institute at BC Women’s Hospital

2014/09 - present Regular Member, Society for Behavioral Neuroendocrinology
 2014/01 - present Member, Society for Neuroscience

COMMITTEE/OTHER MEMBERSHIPS

2024/05 – present Council member, Organization for the Study of Sex Differences
 2023/11 – present Member, University of Massachusetts Amherst NSB DEI committee
 2023/11 – present Core Faculty, University of Massachusetts Amherst NSB
 2023/11 – present Member, University of Massachusetts Amherst Center for Neuroendocrine studies
 2023/09 – present ARC, Psychology and Education Department, Mount Holyoke College
 2022/07 – present Co-lead, Women’s Health Research Cluster
 2021/06 – present Member, IBNS Membership & Communications Committee
 2021/09 – 2022/07 Member, Neuroscience Mentorship Program, University of British Columbia
 2021/03 – 2022/07 Member, UBC Psychology Department Diversity/Inclusion/Equity Task Force
 2019/01 – 2022/07 Co-lead, Trainee Presentation Series Organization Committee, Women’s Health Research Cluster
 2017/03 - 2017/05 Conference Planning Committee Member, Southern Ontario Neuroscience Association Conference
 2016/09 - 2018/08 Committee Member, Animal Care Committee, Brock University

REVIEWER (journal, agency, etc. including dates)

JOURNALS

2024/10-2025/01 Hormones and Behavior
 2024/06-2024/12 Frontiers in Neuroendocrinology
 2024/01 Neuropsychopharmacology
 2023/10-2024/01 Aging Brain
 2023/07-2023/09 Behavioural Brain Research
 2023/05-2023/07 Psychopharmacology
 2023/05 Neuroscience Letters
 2023/03 Frontiers in Neuroendocrinology
 2023/03 Physiology & Behavior
 2023/01 Frontiers in Psychology
 2022/12 Behavioural Brain Research
 2022/12 Frontiers in Neuroendocrinology
 2022/11 Brain Behavior and Immunity
 2022/07-2022/11 Psychopharmacology
 2022/07 Frontiers in Neuroendocrinology
 2022/02 Psychoneuroendocrinology
 2021/12 Psychoneuroendocrinology
 2021/05 Neurobiology of Stress
 2020/12 Environment International
 2020/06 Physiology & Behavior
 2020/01 Brain Behavior and Immunity
 2019/08 Hormones and Behavior
 2019/06 eNeuro
 2019/05 - 2019/7 Frontiers in Neuroendocrinology
 2018/12 - 2019/2 Behavioural Brain Research
 2018/10 Physiology & Behavior
 2018/02 Psychoneuroendocrinology

GRANTS

2021/10 -2021/11 Women’s Health Research Institute Catalyst Grant Competition Reviewer

INTERVIEWS AND BLOGS

PODCAST INTERVIEWS

- 2022 Podcast: Nice Genes! Podcast. Episode Title: The Right Meds.
<https://omny.fm/shows/nice-genes/the-right-meds>
- 2020 Podcast: Her Royal Science Podcast. Episode Title: A Series of Fortunate Events (episode 4). <https://soundcloud.com/herroyalscience/a-series-of-fortunate-events>
- 2020 Podcast: Nerdin About Podcast. Episode Title: The Optimistic Rat.
<https://nerdinabout.podbean.com/e/the-optimistic-rat/>
- 2016 Podcast: Grief Dreams Podcast. Episode Title: Travis Hodges (episode 9).
<https://www.griefdreams.ca/podcast/episode-nine>

OTHER INTERVIEWS

- 2021/08 Title: *The hashtags that brought Black scientists together*. Written by Virginia Gewin.
Publication: Nature. Website: <https://www.nature.com/articles/d41586-021-02223-0>
- 2021/06 Title: *Postdoctoral Fellow Spotlight: Dr. Travis Hodges*. Written by Akosua Asare, Edited by Fiza Arshad. Publication: Neuropsyched. Website:
<https://www.neuropsyched.ca/summer-2021/postdoctoral-fellow-spotlight-dr-travis-hodges>

BLOGS

- 2020 Title: *Diversity in academia: Personal experience & advice from a post doctoral fellow*.
Written by Travis Hodges. Women's Health Blog, Women's Health Research Cluster.
Website: <https://womenshealthresearch.ubc.ca/blog/diversity-academia-personal-experience-advice-post-doctoral-fellow>