

**CURRICULUM VITAE
TRAVIS ELLINGTON HODGES**

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FORMAL EDUCATION

- 2014/9 - 2018/8 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)
- 2012/9 - 2014/8 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)
- 2007/9 - 2012/5 BA (honours), Psychology, University of Manitoba
Honours Thesis: Brood size preference similarities in wild and domestic mallard ducklings (Supervisor: Dr. L. James Shapiro)

ACADEMIC DISTINCTIONS AND AWARDS

- 2015/5 - 2015/8 Dean of Graduate Studies Spring Research Fellowship, Brock University
2012/1 Horace Patterson Foundation Scholarship, Horace Patterson Foundation
2011/9 - 2011/12 *Deans (Arts) Honour List, University of Manitoba
2010/9 - 2010/12 *Deans (Arts) Honour List, University of Manitoba
2010/1 - 2009/4 *Deans (Arts) Honour List, University of Manitoba
2009/9 - 2009/12 *Deans (Arts) Honour List, University of Manitoba
2009/1 - 2009/4 *Deans (Arts) Honour List, University of Manitoba
2008/9 - 2008/12 *Deans (Arts) Honour List, University of Manitoba

*Students on the Deans/University 1 Honour list have received a 80+ percent average in a term while taking a full course load at the University of Manitoba

RESEARCH FUNDING

- 2015/9 - 2018/8 Natural Sciences and Engineering Research Council of Canada (NSERC),
Canada Graduate Scholarships-Doctoral (PGS D3)

OTHER DISTINCTIONS AND AWARDS

- 2007/8 MAST Student Citizenship (Group) Award, The Manitoba Association of School Trustees
2007/8 Young Humanitarian Certificate of Recognition, The Manitoba Teachers' Society
2007/8 Global Citizenship Award, Manitoba Council for International Cooperation

PUBLICATIONS

Submitted

2. Green, M. R., Zeidan, M., **Hodges, T. E.**, & McCormick, C. M. (submitted September 2018). Age-dependent regulation by androgens of the HPA axis and neural gene expression in adolescent and adult male rats. *Journal of neuroendocrinology*.
1. **Hodges, T. E.**, Louth, E. L., Bailey, C. D. C., & McCormick, C. M. (submitted April 2018). 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*.

Published/Accepted/In press

10. Marcolin, M. L., **Hodges, T. E.**, Baumbach, J. L., & McCormick, C. M. (In press). 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*.
9. **Hodges, T. E.** & McCormick, C. M. (In press). Stress and social development in adolescence in a rodent model. Chapter in O. Schultheiss & P. Mehta (Ed.) '*International handbook of social neuroendocrinology*'. Routledge, Taylor & Francis, UK.
8. **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.
7. **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.
6. 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.
5. McCormick, C. M., & **Hodges, T. E.** (2017). Stress, glucocorticoids, and brain development in rodent models. Chapter in G. Fink (Ed.) '*Neuroendocrinology and endocrinology: handbook of stress series, volume 2*'. Elsevier, NY.
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.
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.
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.
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.

PRESENTATIONS AT SCIENTIFIC MEETINGS

18. Oral Presentation: **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.

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.

TEACHING ACTIVITIES

2018/1 - 2018/4	Teaching Assistant: Human Sexuality (PSYC 3P34), Brock University
2017/9 - 2017/12	Teaching Assistant: Critical Thinking (PSYC 3P30), Brock University
2017/9 - 2017/12	Teaching Assistant: Perception (PSYC 2P49), Brock University
2017/1 - 2017/4	Teaching Assistant: Human Sexuality (PSYC 3P34), Brock University
2016/9 - 2016/12	Teaching Assistant: Stress (PSYC 3P75), Brock University
2016/1 - 2016/4	Teaching Assistant: Stress (PSYC 3P75), Brock University
2015/9 - 2015/12	Teaching Assistant: Human Sexuality (PSYC 3P34), Brock University
2015/1 - 2015/4	Teaching Assistant: Human Sexuality (PSYC 3P34), Brock University
2014/9 - 2014/12	Teaching Assistant: Perception (PSYC 2P49), Brock University
2014/1 - 2014/4	Teaching Assistant: Stress (PSYC 3P75), Brock University
2013/9 - 2013/12	Teaching Assistant: Perception (PSYC 2P49), Brock University
2013/1 - 2013/4	Teaching Assistant: Perception (PSYC 2P49), Brock University
2012/9 - 2012/12	Teaching Assistant: Brain and Behaviour (PSYC 2P35/NEUR 2P36), Brock University

PROFESSIONAL DEVELOPMENT

2014/3	Canadian Council on Animal Care (CCAC) training, Animal Care and Use Committee, Brock University
2013/9	Science Safety Training, Brock University
2011/9	Animal User Training (Wildlife & Behavioural Sciences, Laboratory), University of Manitoba

OTHER SCHOLARLY ACTIVITIES

Memberships

2016/9 - present	Committee Member, Animal Care Committee, Brock University
2014/9 - present	Student Member, Society for Behavioral Endocrinology
2014/1 - present	Student Member, Society for Neuroscience

Guest lectures

2016/11/02	Guest Lecturer – Title of lecture: Measurement of stress hormones. Course: Stress (PSYC 3P75). Professor: Dr. Cameron Muir. Brock University
2016/10/26	Guest Lecturer – Title of lecture: Stress and reproduction. Course: Stress (PSYC 3P75). Professor: Dr. Cameron Muir. Brock University
2016/10/19	Guest Lecturer – Title of lecture: Defining and measuring stress. Course: Stress (PSYC 3P75). Professor: Dr. Cameron Muir. Brock University
2016/03/18	Guest Lecturer – Title of lecture: The challenges of animal research. Course: Research Methods (PSYC 3F40). Professor: Dr. Tanya Martini. Brock University
2015/1/28	Guest Lecturer – Title of lecture: Stress and adolescent development. Course: Stress (PSYC 3P75). Professor: Dr. Chrissy Lackner. Brock University
2014/1/25	Guest Lecturer – Title of lecture: Adolescent development and vulnerability

to stressors. Course: Maturation and Development (PSYC 4P69). Professor: Dr. Chrissy Lackner. Brock University

RELATED EMPLOYMENT

2018/9 - present	Postdoctoral Fellow, Behavioural Neuroendocrinology Lab, Djavad Mowafaghian Centre for Brain Health, University of British Columbia
2011/12 - 2012/8	Animal Care Technician, University of Manitoba Animal Care and Holding Facility, University of Manitoba