

Updated: November 2025

KEVIN B. SMITH, PhD
Curriculum Vitae

AREAS OF RESEARCH INTEREST

Neuroendocrinology, Pubertal Development, Stress, Mood Disorders, Immunology

EDUCATION

2017-2024	University of Ottawa - MA/PhD
2010-2016	Kwantlen Polytechnic University – BA (Honours)

THESIS & TITLE

MA/PHD	Sex Specific Mechanisms of Pubertal Stress-Induced Inhibition of the Hypothalamic-Pituitary-Gonadal Axis, University of Ottawa
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BA	The Role of Anxiety in Pareidolia and the Detection of Camouflaged Animals, Kwantlen Polytechnic University
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AWARDS AND SCHOLARSHIPS

External awards:

2020-2023	Natural Sciences and Engineering and Research Council of Canada, Postgraduate Scholarship 3 - \$63,000
2020-2023	Mitacs, Accelerate Fellowship - \$60,000
2020-2020	Organization for the Study of Sex Differences, Travel Award - \$750
2019-2019	Organization for the Study of Sex Differences, CIHR Travel Award - \$1,900
2018-2019	Ontario Graduate Scholarship - \$15,000

Internal awards:

2022-2023	Excellence Scholarship, University of Ottawa, \$10,000
2021-2022	Excellence Scholarship, University of Ottawa, \$10,000
2020-2021	Excellence Scholarship, University of Ottawa, \$10,000
2019-2020	Admission Scholarship, University of Ottawa, \$9,000
2018-2019	Excellence Scholarship, University of Ottawa, \$10,000
2017-2018	Admission Scholarship, University of Ottawa, \$7,500
2016-2016	Student Lead Research Grant, Kwantlen Polytechnic University \$1,500

PROFESSIONAL EXPERIENCE

Faculty Professor (January 2026 – present)

Douglas College, Regular Faculty

Faculty Professor (August 2024 – April 2025)

University of the Fraser Valley, Limited Term Appointment

Qualified Faculty List (January 2025 – present)

Kwantlen Polytechnic University, Adjunct/Contract Professor

Research Scientist (August 2023 – May 2024)

Department of National Defense

Contract Professor (January 2024 – April 2024)

Carleton University

Contract Professor (September 2023 – April 2024)

University of Ottawa

Board Member – Youth Outreach (December 2019 – January 2023)

Ottawa City Chapter, Tourette's Canada

TEACHING EXPERIENCE**Douglas College**

Data Analysis in Psychology 2300

Research Methods in Psychology 2301

Biological Bases of Behaviour 2315

Applied Intermediate Research Methods and Data Analysis 3300

University of the Fraser Valley

Introductory Psychology 101

Introductory Psychology 102

Introduction to Biopsychology 280

Evolutionary Psychology 385

History and Systems of Psychology 408

Sex and the Brain 491

Carleton University

Sex and the Brain 4303

University of Ottawa

History and Systems of Psychology 4130

INSTITUTIONAL SERVICE**Departmental Service (September 2024 – present)**

University of the Fraser Valley, Psychology, Stage Party and Graduation Attendee

University of the Fraser Valley, Psychology, Honours Panel Attendee

University of the Fraser Valley, Psychology, Honours Recruitment Information Session

University of the Fraser Valley, Psychology, Welcome Week

Ad-hoc Peer Reviewer (August 2024 - present)

Scientific Reports, Nature

All Life, Taylor and Francis
Life and Environment, PeerJ

Master of Ceremonies (October 2020 – October 2020)

University of Ottawa, Interdepartmental, Brain and Mind Research Institute

Coordinator/Organizer (July 2019 - October 2019)

University of Ottawa, Psychology Dept, World Mental Health Day

SUPERVISING AND MENTORING EXPERIENCE

Undergraduate Thesis Supervision:

Supervisor, Samuel Holinaty, Psychology, 2025 – University of the Fraser Valley
Supervisor, Ella Porter, Psychology, 2025 – University of the Fraser Valley
Supervisor, Zac Clarke, Psychology, 2025 – University of the Fraser Valley
Supervisor, Ciarra Van Dop, Psychology, 2024 – University of the Fraser Valley
Supervisor, Jessica Tchida, Psychology, 2022 – University of Ottawa
Supervisor, Zahra Hussan, Psychology, 2022 – University of Ottawa
Supervisor, Aya Mesbahi, Psychology, 2022 – University of Ottawa
Supervisor, Meghan Stevens, Biomedical, 2021 – University of Ottawa
Supervisor, Emily Saunders, Psychology, 2021 – University of Ottawa
Supervisor, Sarah Al Sharani, Biomedical, 2021 – University of Ottawa
Supervisor, Ahmed Abderaouf Bouteldja, Biomedical, 2020 – University of Ottawa
Supervisor, Lucia Peleja, Biomedical, 2020 – University of Ottawa
Supervisor, Gardy Lavertu, Biomedical, 2019 – University of Ottawa
Supervisor, Agnes Belkacem, Biomedical, 2018 – University of Ottawa
Supervisor, Bret Keogh, Biomedical, 2017 – University of Ottawa

Undergraduate Supervision:

Supervisor, Zac Clarke, Directed Studies, 2025 – University of the Fraser Valley
Supervisor, Priya Monga, Directed Studies, 2024 – University of the Fraser Valley
Supervisor, Ella Porter, Research Assistant, 2024 – University of the Fraser Valley
Supervisor, Matt Wailing, Research Assistant, 2024 – University of the Fraser Valley
Supervisor, Sofia McRae, NSERC Awardee, 2022 – University of Ottawa
Supervisor, Jaiman Lawrence, NSERC Awardee, 2021 – University of Ottawa
Supervisor, Jasmine Zhong, NSERC Awardee, 2021 – University of Ottawa
Supervisor, Sarah Gostlin, Research Assistant, 2021 – University of Ottawa
Supervisor, Sarah Al Sharani, NSERC Awardee, 2020 – University of Ottawa
Supervisor, Celia Hay, MITACS Awardee, 2021 – University of Ottawa
Supervisor, Sezgi Yanikomeroglu, NSERC Awardee, 2019 – University of Ottawa
Supervisor, Alanah Yazbeck, NSERC Awardee, 2018 – University of Ottawa

RESEARCH AND LABORATORY EXPERIENCE

Principal Investigator (August 2024 – present)

Douglas College (January 2026 – present)

University of the Fraser Valley (August 2024 – April 2026)

Laboratory Manager (September 2018 – May 2023)

University of Ottawa, Psychology Dept - Neuroimmunology, Stress, and Endocrinology Lab

Level One Tutor (November 2015 - July 2016)

Kwantlen Polytechnic University- *The Learning Centre*

Research Assistant (August 2015 – April 2017)

Kwantlen Polytechnic University, Psychology Dept – *Cognition Bee Lab*

Research Assistant (August 2014 – November 2019)

Kwantlen Polytechnic University, Psychology Dept – *Cognition Lifespan Lab*

Research Assistant (April 2015 - July 2015)

Kwantlen Polytechnic University, Ecology Dept - *Institute of Sustainable Horticulture*

PUBLICATIONS**Under-Review**

Smith, K.B., Hinterberger, A., Lawrence, J., Abderaouf Bouteldja, A., Hay, Monga, P., C., Bronner, S., Iqbal, U., Tompkins, T.A., Ismail, N. (2025). Probiotics mitigate the enduring effects of pubertal LPS treatment on brain and behaviour of male and female mice. *Nature Neuroscience*, under-review

Smith, K.B., Hinterberger, A., Anderson, F., Dworsky-Fried, M., Porter, E., Wailing, M., Ismail, N. (2025). Kisspeptin's effect on Adult Sexual Behaviour Following Pubertal LPS Treatment in Male and Female Mice. *Endocrinology*, under-review

Peer-Reviewed Publications

Smith, K.B., Murack, M., Butcher, J., Hinterberger, A., Stintzi, A., Liang, J., Tata, D.A., Ismail, N. (2025). Modulating Effects of Environmental Enrichment on Stress-induced changes in the Gut Microbiome. *Brain, Behavior, and Immunity – Health*: 46, <https://doi.org/10.1016/j.bbih.2025.101023>.

Skomorovsky, A., **Smith, K.B.**, Chamberland, J. (2025). A Healthy Work Environment and Psychological Distress Among Canadian Armed Forces Men and Women. *Journal of Military, Veteran and Family Health*: 11(2), <https://doi.org/10.3138/jmvfh-2024-0047>

Smith, K.B., Murack, M., Al Sharani, S., Ismail, N. (2024). Environmental Enrichment Cage for Laboratory Mice: A Downloadable Alternative. *Current Protocols*: 4, e913. Doi: 10.1002/cpz1.913

Smith, K.B., Murack, M., Ismail, N. (2023). The sex-dependent and enduring impact of pubertal stress on health and disease. *Brain Research Bulletin*, 23, <https://doi.org/10.1016/j.brainresbull.2023.110701>

- Smith, K.B.**, Zhong, J., Gostlin, S.K., Liang, J., and Ismail, N. (2023). Enduring Sex-Dependent Effects of Lipopolysaccharide Treatment on the Hypothalamic–Pituitary–Gonadal Axis in Mice. *General and Comparative Endocrinology*, 340. <https://doi.org/10.1016/j.ygcen.2023.114324>.
- Smith, K.B***, Murack, M*, Traynor, O., Pirwani, A., Gostlin, S., Mohammad, T., Tata, Despina., Messier, C., Ismail, N. (2023). Environmental Enrichment Alters LPS-Induced Changes in BDNF and PSD-95 Expression During Puberty. *Brain Research*, 1806. <https://doi.org/10.1016/j.brainres.2023.148283>.
- Esposito, P., Kearns, M.M., **Smith, K.B.**, Chandrasegaram, R., Kadamani, A.K., Gandelman, M., Liang, L., Nikpoor, N., Tompkins, T.A., Ismail, N. (2022). The effects of antimicrobials and lipopolysaccharide on acute immune responsivity in pubertal male and female CD1 mice. *Comprehensive Psychoneuroendocrinology*, 11. <https://doi.org/10.1016/j.cpnec.2022.100147>.
- Cao, Y., Li, B., Ismail, N., **Smith, K.B.**, Li, T., Dai, R., Deng, Y. (2021). Neurotoxicity and Underlying Mechanisms of Endogenous Neurotoxins. *International Journal of Molecular Sciences*, 22(23). <https://doi.org/10.3390/ijms222312805>.
- Smith, K.B.**, Murray, E., Gardner Gregory, J., Liang, J., Ismail, N. (2021). Pubertal Probiotics Mitigate Lipopolysaccharide-Induced Programming of the Hypothalamic-Pituitary-Adrenal axis in Male Mice only. *Brain Research Bulletin*, 177, <https://doi.org/10.1016/j.brainresbull.2021.09.017>
- Smith, K.B.**, Murray, E., Chandrasegaram, R., Liang, J., Mallet, J.F., Matar, C., Blaustein, J.D., Ismail, N. (2021). Pubertal Immune Challenge Suppresses the Hypothalamic-Pituitary-Gonadal Axis in Male and Female Mice. *Brain Research Bulletin*, 170. <https://doi.org/10.1016/j.brainresbull.2021.02.006>
- McCormick, C., **Smith, K.B.**, Baumbach J., Nasciento de Lima, A.P., Shaver, M., Hodges, T., Marcolin, M., 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. <https://doi.org/10.1016/j.yhbeh.2020.104845>
- Murray, E., **Smith, K.B.**, Stoby, K., Thomas, B., Swenson, M., Arber, A., Frenette, E., and Ismail, N. (2020). Pubertal probiotic blocks LPS-induced anxiety and the associated neurochemical and microbial outcomes. *Psychoneuroendocrinology*, 112. <https://doi.org/10.1016/j.psyneuen.2019.104481>
- Murack, M., Chandrasegaram, R., **Smith, K.B.**, Rheaume, É., Ah-Yen, E., Malette-Guyon, É., Nanji, Z., Semchishen, S., Latus, O., Messier, C. & Ismail, N. (2020). Chronic Sleep Restriction induces depression-like behavior and sensitization of the

hypothalamic-pituitary-adrenal axis in pubertal female mice. *Behavioral Brain Research*, 399. <https://doi.org/10.1016/j.bbr.2020.113001>

Li, B., Han, C., Liu, Y., Ismail, N., **Smith, K.**, Zhang, P., Chen, Z., Dai, R., & Deng, Y. (2020). Effect of Heavy Ion $^{12}\text{C}^{6+}$ Radiation on Lipid Constitution in the Rat Brain. *Molecules*, 25(16), 3762. <https://doi.org/10.3390/molecules25163762>

Smith, K.B., Chandrasegaram, R., Yazbeck, A., and Ismail, N. (2019). Environmental enrichment protocol for laboratory mice. *Journal of Psychiatry and Neuroscience*, 44(5): 10-10. Published abstract submission. <https://doi.org/10.1503/jpn.190127>

Murray, E., Sharma, R., **Smith, K.B.**, Mar, K., Barve, R., Lukasik, M., Pirwanai, A., Malette-Guyon, E., Lambra, S., Thomas, B., Sadeghi-Emamchaie, H., Liang, J., Malet, J., Matar, C., and Ismail, N. (2019). Probiotic consumption during puberty mitigates LPS-induced immune responses and protects against stress-induced depression- and anxiety-like behaviors in adulthood in a sex-specific manner. *Brain Behavior and Immunity*, 81: 198-212. <https://doi.org/10.1016/j.bbi.2019.06.016>

Barbeau, K., Boileau, K., Sarr, F., and **Smith, K.B.** (2019). Path analysis in Mplus (Version 8): A tutorial using a conceptual model of psychological, cognitive, and behavioral antecedents of bulimic symptoms in young adults. *The Quantitative Methods of Psychology*, 15(1): 38-53. <https://doi.org/10.20982/tqmp.15.1.p038>

Other Publications

Smith, K.B., Cameron, C., and Puckering, E. (2015). Persuasion: So Easily Fooled. Supplemental Content Contributor for NOBA Open Textbook.

INVITED TALKS

Smith, K.B. “Pubertal Stress and Long-Term Tourette’s”. Royal Ottawa Mental Health Hospital. Tourette Canada

Smith, K.B. “Owning Your TS with Kevin Smith”. Tic Talk Podcast. Tourette Canada

Smith, K.B. “Pubertal Stress Can Predispose to Mental Illnesses”. Le Génie au Service des Femmes: Rethinking the Faces and Spaces of Engineering. University of Ottawa.

CONFERENCE PRESENTATIONS

Monga, P. *, **Smith, K.B.** (2025). Sex Differences in Probiotic Effects on Cognitive Function and NMDA Receptors in Stress-Induced Mice During Puberty. Poster Presentation at Northwest Cognition and Memory Conference, Victoria, BC, CA.

Porter, E. *, Van Dop, C., **Smith, K.B.** (2025). When Perception Ruins Potential: How Disclosure of Mood Disorder Treatment Affects Hireability, Poster Presentation at Northwest Cognition and Memory Conference, Victoria, BC, CA.

- Smith, K.B.***, Abderaouf Bouteldja, A., Al Sharani, S., Hay, C., McRae, S., Zhong, J., Naghmeh, N., Tompkins, T.A., Ismail, N. (2022). LPS- and Antibiotic-Induced Neuroinflammation and Depression-like and Anxiety-like Behaviors are Attenuated by Probiotic Consumption, San Diego, CA, USA.
- Smith, K.B.***, Zhong, J., Ismail, N. (2021). LPS Treatment Alters GAD67 mRNA Expression and Gonadotropin Concentrations in a Sex- and Age-Dependent Manner. Poster Presentation at the Society for Neuroscience, Chicago, IL, USA.
- Smith, K.B.***, Yanikomeroglu, S., Ismail, N. (2021). LPS Induces Enduring Hypothalamic Kiss1 and Kiss1R Downregulation in Pubertal, but not Adult Male and Female Mice. Poster Presentation at the Society for Behavioral Neuroendocrinology, Online.
- Smith, K.B.***, Ismail, N. (2021). Environmental Enrichment Attenuates the Negative Effects of Pubertal Stress. Oral Presentation at the Interdisciplinary Conference in Psychology, Ottawa, ON, Canada.
- Abderaouf Bouteldja, A.*, **Smith, K.B.**, Ismail, N. (2021). The effects of pubertal antibiotic and probiotic treatments on the enduring effects of lipopolysaccharide-induced anxiety-behaviors in male and female mice. Poster Presentation at the Interdisciplinary Conference in Psychology, Ottawa, ON, Canada.
- Peleja, L.*, **Smith, K.B.**, Ismail, N. (2021). Effects of Environmental Enrichment on LPS-Induced Changes to the Gut Microbiota of Male and Female Pubertal Mice. Poster presentation at the Interdisciplinary Conference in Psychology, Ottawa, ON, Canada.
- Smith, K.B.***, Murray, E., Chandrasegaram, R., Liang, J., Mallet, J-F., Matar, C., Blaustein, J.D., Ismail, N. (2021). Pubertal immune challenge suppresses the hypothalamic-pituitary-gonadal axis in male and female mice. Poster presentation for the Society for Neuroscience – Global Connectome, Online.
- Murack, M.*, **Smith, K.B.**, Davidson, J., Kadamani, A., Al Sharani, S., Messier, C., Ismail, N. (2021). Environmental enrichment increases brain derived neurotrophic factor and post-synaptic density 95 after lipopolysaccharide treatment in pubertal male and female mice. Poster presentation for the Society for Neuroscience – Global Connectome, Online.
- Esposito, P.*, Kearns, M., **Smith, K.B.**, Ismail, N. (2021). The effect of gut dysbiosis and probiotics on stress-induced neuroinflammation in pubertal male and female CD1 mice. Poster presentation for the Society for Neuroscience – Global Connectome, Online.

- Smith, K.B.*.**, Pirwani, A., Ismail, N. (2020). Enduring Hypothalamic-Pituitary-Gonadal Suppression in Pubertal, but not Adult, Male and Female mice. Poster presentation at the Organization for the Study of Sex Differences, Marina Del Ray, LA, USA.
- Lavertu, G. D.*, **Smith, K.B.**, Ismail, N. (2020). Pubertal Lipopolysaccharide Disrupts Hypothalamic-Pituitary-Gonadal Axis. Poster presentation for the Interdisciplinary Conference in Psychology, Ottawa, ON, CAN.
- Kadamani, A.*, **Smith, K.B.**, Kearns, M., Ismail, N. (2020). Manipulation of the Gut Microbiota Changes the Inflammatory Response to a Bacterial Endotoxin. Poster presentation for the Interdisciplinary Conference in Psychology, Ottawa, ON, CAN.
- Smith, K.B.*.**, Murack, M., Chandrasegaram, R., Tata, D., Mallet, J., Matar, Chantal., and Ismail, N. (2019). *Effects of environmental enrichment and social housing on LPS-induced pubertal immune response*. Poster presentation at the Society for Neuroscience, Chicago, IL, USA.
- Kolmogorova, D.*, Ah-Yen E., **Smith, K.B.**, Taylor, B.C., Chandrasegaram, R., and Ismail, N. (2019). *Sex differences in blood-brain barrier permeability during lipopolysaccharide-induced sickness*. Poster presentation at the Society for Neuroscience, Chicago, IL, USA.
- Smith, K.B.*.**, and Ismail, N. (2018). *Probiotics mitigate lipopolysaccharide-induced reduction in glucocorticoid receptor expression*. Poster presentation at the Society for Neuroscience, San Diego, CA, USA.
- Barbeau, K., Boileau, K., Sarr, F., and **Smith, K.B.** (2018). *Path analysis in Mplus (Version 8): A tutorial using a conceptual model of psychological, cognitive and behavioral antecedents of bulimic symptoms in young adults*. Poster presentation at the Interdisciplinary. Conference in Psychology, Ottawa, CA.
- Smith, K.*.**, Zeller, K., Christiaanse, J., and Bernstein, D. (2018). *Perception of social interaction: how mood disorder affects visual attention and theory of mind*. Poster presentation at the Interdisciplinary Conference in Psychology, Ottawa, CA.
- Smith, K.*.**, and Dastur, F. (2016). *The role of anxiety in pareidolia and the detection of camouflaged animals*. Poster Presentation at the Human Behavior and Evolution Society, Vancouver, BC, CA.

PROFESSIONAL ASSOCIATION MEMBERSHIPS

2020-2023	Society for Behavioral Neuroendocrinology
2019-2023	Organization for the Study of Sex Differences
2017-2023	Society for Neuroscience
2017-2018	Canadian Psychological Association
2015-2017	NorthWest Conference in Memory and Cognition (NOWCAM)
2014-2016	Society for Applied Research in Memory and Cognition (SARMAC)