

CURRICULUM VITAE | DANIEL BOYCE MCKIMCell: 614-556-3143 | Email: dmckim@illinois.edu**EDUCATION/TRAINING**

INSTITUTION AND LOCATION	DEGREE (GPA)	YEAR(s)	FIELD OF STUDY
William Paterson University of NJ (WPUNJ) Wayne, NJ	B.A. (3.95)	2007-11	Major: Psychology Minor: Biology Honors: Biopsychology
The Ohio State University Columbus, OH	Ph.D. (3.64)	2012-17	Neuroscience Immunology Focus

POSITIONS

ACTIVITY/ OCCUPATION	BEGINNING DATE	ENDING DATE	FIELD	INSTITUTION/ COMPANY	SUPERVISOR/ EMPLOYER
Research Assistant	2010	2012	Developmental Neurobiology	WPUNJ: Biology Dept.	Robert Benno
Research Assistant	2009	2012	Cognitive Neuropsychology	WPUNJ: Psychology Dept.	Bruce Diamond
Graduate Fellow T32 & F31	08/12	05/17	Neuroscience Immunology Psychoneuroimmunology	OSU: Neuroscience Graduate Program	Jonathan Godbout John Sheridan
Postdoctoral Researcher	05/17	11/18	Neuroimmunology (Aging & Alzheimer's)	OSU: Institute for Behavioral Medicine Research	Jonathan Godbout
Assistant Professor	11/18	-	Neuroimmunology	University of Illinois Urbana-Champaign	Department of Animal Sciences

Graduate Honors:

Finalist, Biological Psychiatry Ziskind-Somerfield Research Award, 2017

OSUMC Research Day Poster Award, 2017

Finalist – Society of Biological Psychiatry Research Award, 2017

IBMR Research Day Best Presentation, 2017

Ronald Glaser Travel Award, 2017

Hayes Graduate Forum Finalist (1st), 2017

IGP Neuroscience Trainee Plenary Speaker, 2016

IGP Research Day Award, 2016

Dept. of Neuroscience trainee research award, 2016

Dept. of Neuroscience travel award, 2016

IBMR Research Day Best Poster Award, 2016

Hayes Graduate Forum Finalist (1st), 2016

IGP Research Day Award, 2015

OSUMC Travel Award, 2015

OSUMC Research Day plenary trainee speaker, 2015

PNIRS Travel Award, 2015

Chair of Student Seminar Committee, 2015
College of Dentistry Research Day Finalist (3rd), 2015
Hayes Graduate Forum Finalist (2nd), 2015
Chair of Student Seminar Committee, 2014
Hayes Graduate Forum Finalist (3rd), 2014
PNIRS Travel Award, 2014
OSU Graduate Fellowship Award, 2012

Undergraduate Honors:

Summa Cum Laude, 2011
Outstanding Research Award, 2011
Outstanding Academic Achievement Award, 2011
Biopsychology Honors, 2011
Paul P. Vouras Social Sciences Award, 2011
A. L. Rubin Distinguished Scholar Award, 2011
Dept. of Psychology Travel Award, 2011
Dean's Research and Travel Award, 2011
Dept. of Psychology Travel Award, 2010
Dean's Research and Travel Award, 2010
Dean's List, 2007-2011

PUBLICATIONS

[Google Scholar Profile](#)

Total citations: 590

i10-index: 10

h-index: 10

McKim DB, Yin W, Wang Y, Cole SW, Godbout JP, Sheridan JF (In Press at *Cell Reports*). Social stress mobilizes hematopoietic stem cells to establish persistent splenic myelopoiesis.

Liu X, Nemeth DP, **McKim DB**, Zhu L, DiSabato DJ, Berdysz O, Gorantla G, Oliver B, Witcher KG, Wang Y, Sheridan JF, Godbout JP, Robson MJ, Blakely RD, Popovich PG, Bilbo SD, & Quan N (In Press at *Immunity*). Structural and functional cytoarchitecture of IL-1R1-expressing system in the brain

O'Neil S, Witcher KG, **McKim DB**, & Godbout JP (In Press at *Acta Neuropathologica*). Microglial priming persists in the aged brain following forced repopulation by CSF1R antagonism

Witcher KG, Bray CE, Dziabis JE, **McKim DB**, Benner BB, Rowe R, Kokiko-Cochran O, Popovich PG, Lifshitz J, Eiferman DS, & Godbout JP (2018). Traumatic Brain Injury-induced Neuronal Damage in the Somatosensory Cortex Causes Resident Microglia to Form Unique Rod-Shaped Glia that Promote Astrogliosis and Persistent Neuroinflammation. *Journal of Neurotrauma*

Weber MD, **McKim DB**, Witcher KG, Sobol CG, Wang Y, Sawicki CM, Niraula A, Godbout JP, & Sheridan JF (2018). Microglial recruitment of monocytes to the brain underlies reoccurring anxiety in stress-sensitized mice. *Biological Psychiatry*

- Norden DM, Faw TD, **McKim DB**, Deibert R, Fisher LC, Sheridan JF, Godbout JP, & Basso DM (2018). Bone Marrow-derived Monocytes Drive the Inflammatory Microenvironment in Local and Remote Regions after Thoracic SCI. *Journal of Neurotrauma*
- Pyter LM, **McKim DB**, Husain Y, Calero H, Godbout JP, Sheridan JF, Marucha P, and Engeland C (2018). Effects of dermal wounding on distal primary tumor immunobiology in female mice. *Journal of Surgical Research*
- McKim DB**, Weber MD, Niraula A, Sawicki CM, Liu X, Jarrett BL, Ramirez-Chan K, Wang Y, Roeth RM, Sucaldito AD, Sobol CG, Quan N, Sheridan JF, Godbout JP (2017). Microglial recruitment of IL-1 β -producing monocytes to brain endothelium causes stress-induced anxiety. *Molecular Psychiatry*
- Pyter LM, Husain Y, Calero H, **McKim DB**, Lin HY, Godbout JP, Sheridan JF, Engeland CG, Marucha PT (2016). Tumors alter inflammation and impair dermal wound healing in female mice. *PLoS One* 11 (8), e0161537
- McKim DB**, Patterson JM, Wohleb ES, Jarrett BL, Godbout JP, Sheridan JF (2016). Sympathetic release of splenic monocytes promotes recurring anxiety following repeated social defeat. *Biological psychiatry* 79 (10), 803-813 (Impact Factor 11.4)
- McKim DB**, Niraula A, Tarr AJ, Wohleb ES, Sheridan JF, Godbout JP (2016). Neuroinflammatory dynamics underlie memory impairments after repeated social defeat. *The Journal of Neuroscience* 36 (9), 2590-2604
- Ramirez KG, Shea DT, **McKim DB**, Reader BF, Sheridan JF (2015). Imipramine attenuates neuroinflammation and reverses stress-induced social avoidance. *Brain, Behavior & Immunity* 46, 212-220
- Liu X, Yamashita T, Chen Q, Belevych N, **McKim DB**, Tarr AJ, Zuo J, Coppola V, Nath N, Nemeth DP, Syed ZW, Godbout JP, Sheridan JF, Quan N (2015). Interleukin 1 Type 1 receptor restore: a genetic mouse model for studying Interleukin 1 receptor mediated effects in specific cell types. *Journal of Neuroscience* 35 (7), 2860-2870
- Reader BF, Jarrett BL, **McKim DB**, Wohleb ES, Godbout JP, Sheridan JF (2015). Peripheral and Central Effects of Repeated Social Defeat Stress: Monocyte Trafficking, Microglial Activation, and Anxiety. *Neuroscience* 289, 429-442
- Wohleb ES*, **McKim DB***, Sheridan JF, Godbout JP (2015). Monocyte Trafficking to the Brain with Stress and Inflammation: A Novel Axis of Immune-to-Brain Communication that Influences Mood and Behavior. *Frontiers in Neuroscience* 8, 34-50
- Sawicki CM, **McKim DB**, Wohleb ES, Jarret BL, Reader BF, Norden DM, Godbout JP, Sheridan JF (2014) Social defeat promotes a reactive endothelium in a brain region-dependent manner with increased expression of key adhesion molecules, selectins and chemokines associated with the recruitment of myeloid cells to the brain. *Neuroscience* 302, 151-164
- Wohleb ES, **McKim DB**, Shea DT, Powell ND, Tarr AJ, Sheridan JF, & Godbout JP (2013). Re-Establishment of Anxiety in Stress-Sensitized Mice is Caused by Monocyte Trafficking from the Spleen to the Brain. *Biological Psychiatry*, 75(12):970-81.

Lieblein-Boff JC, **McKim DB**, Shea DT, Wei P, Deng Z, Sawicki CE, Quan N, Bilbo SD, Bailey MT, McTigue DM, & Godbout JP (2013). Neonatal *E. Coli* Infection Causes Neuro-Behavioral Deficits Associated with Hypomyelination and Neuronal Sequestration of Iron. *Journal of Neuroscience*, 33(41):16334-45.

Diamond BJ, Haines EL, Moors AC, Mosley JE, **McKim DB**, & Moreines J (2012). Implicit bias, executive control and information processing speed. *Journal of Cognition and Culture*, 12(1):183-193

Under review:

Yin W, Gallagher N, Sawicki CM, **McKim DB**, Godbout JP, & Sheridan JF (Under Review at *Brain, Behavior, & Immunity*). Monocyte Release, Accumulation in the Brain, and Anxiety-like Behavior in Female Mice Exposed to Repeated Social Defeat

Liu X, Berdysz O, Ramani A, Nemeth DP, Quan N, DiSabato DJ, Oliver B, Gorantla G, Li J, & Zhu L (Under Review at *Brain, Behavior, & Immunity*). Interleukin-1 causes CNS inflammatory cytokine expression via endothelia-microglia bi-cellular signaling

In Preparation:

McKim DB, Oliver B, Liu X, Quan N, Godbout JP (In Preparation). Aging primes degenerative microglia responses to soluble amyloid beta.

Norden DM, Faw TD, **McKim DB**, Deibert R, Fisher LC, Sheridan JF, Godbout JP, & Basso DM (In Preparation). Thoracic SCI induces recruitment of inflammatory macrophages into locomotor networks of the lumbar cord

National & International Abstracts

Liu X, Nemeth DP, **McKim DB**, Zhu L, DiSabato D, Berdysz O, Gorantla G, Oliver B, Witcher K, Wang Y, Godbout JP, Sheridan JF, Robson M, Blakely R, Popovich P, Biblo S, Quan N (2018). Structural and functional cytoarchitecture of IL-1R1-expressing system in the brain. Psychoneuroimmunology Research Society (PNIRS). Miami, FL.

McKim DB, Godbout JP, & Sheridan JF (2017). Extramedullary monopoiesis underlies stress-sensitization and recurring anxiety. Society for Neuroscience Convention (SFN). Washington, DC.

Witcher KG, Benner BN, **McKim DB**, Lifshitz J, Eiferman DS, & Godbout JP (2017). Resident microglia form rod-shaped structures in cortical regions of neuronal damage and inflammation after diffuse traumatic brain injury. Society for Neuroscience Convention (SFN). Washington, DC.

McKim DB, Godbout JP, & Sheridan JF (2017). Extramedullary monopoiesis underlies stress-sensitization and recurring anxiety. Cell Symposia, Neuro-Immune Axis. Sitges, Spain.

Bever SR, Dib P, Strehle LD, Haynes BE, Hilvert AM, **McKim DB**, Godbout JP, Sheridan JF, Obrietan K, and Pyter LM (2017). Tumors and tumor resection alter circadian rhythms. Psychoneuroimmunology Research Society (PNIRS). Galveston, TX.

- McKim DB**, Godbout JP, & Sheridan JF (2017). Extramedullary monopoiesis underlies stress-sensitization and recurring anxiety. Psychoneuroimmunology Research Society (PNIRS). Galveston, TX.
- Weber M, **McKim DB**, Sawicki C, Niraula A, Godbout JP, and Sheridan JF (2016). Microglial Recruitment of Monocytes to the Brain Causes Stress-Induced Anxiety. Annual meeting of the American College of Neuropsychopharmacology (ACNP). Hollywood, FL.
- Liu X, Nemeth DP, **McKim DB**, Godbout JP, Sheridan JF, Quan N, DiSabato DJ, Zhu L (2016). Cell type specific IL-1R1 mediates distinct functions in neuroinflammation and anxiety. Society for Neuroscience Convention (SFN). San Diego, CA
- Weber MD, Sawicki C, **McKim DB**, Godbout JP, Sheridan JF (2016) Microglia actively recruit inflammatory monocytes to the brain to promote anxiety-like behavior with Repeated Social Defeat. Society for Neuroscience Convention (SFN). San Diego, CA
- McKim DB**, Godbout JP, Sheridan JF (2016). Extramedullary monopoiesis underlies stress-sensitization and recurring anxiety. Oral Presentation. Society for Neuroscience Convention (SFN). San Diego, CA
- Witcher KG, Benner BN, Muccigrosso MM, **McKim DB**, Fenn AM, Lifshitz J, Eiferman DS, Godbout JP (2016). Rod microglia induced by traumatic brain injury are resident cells that align with blood vessels adjacent to damaged neurons. Society for Neuroscience Convention (SFN). San Diego, CA
- Norden DM, Faw TD, **McKim DB**, Deibert R, Fisher LC, Sheridan JF, Godbout JP, & Basso DM (2016). Infiltration of macrophages promotes inflammation rapidly at epicenter and remote regions after thoracic SCI. Neurotrauma Conference.
- McKim DB**, Godbout JP, Sheridan JF (2015). Repeated social stress promotes extramedullary hematopoiesis. Annual meeting of the European Macrophage and Dendritic cell Society (EMDS). Krakow, Poland
- Niraula A, **McKim DB**, Tarr AJ, Sheridan JF, Godbout JP (2015). Repeated social defeat stress induces neuroinflammation and impairs hippocampal neurogenesis that differentially regulate mood and cognition. Society for Neuroscience Convention (SFN). Chicago, IL
- Sawicki CM, **McKim DB**, Wohleb ES, Jarret BL, Reader BF, Norden DM, Godbout JP, Sheridan JF (2015). The Development of a Reactive Brain Endothelium after Psychosocial Stress. Psychoneuroimmunology Research Society (PNIRS). Seattle, WA
- Pyter LM, Husain Y, Calero H, **McKim DB**, Lin HY, Godbout JP, Sheridan JF, Engeland CG, Marucha PT (2015). Dermal Wounds Alter Tumor Immunobiology in Mice. Psychoneuroimmunology Research Society (PNIRS). Seattle, WA
- Niraula A, **McKim DB**, Tarr AJ, Wohleb ES, Shea DT, Atcheson KM, Sheridan JF, Godbout JP (2015). Repeated Social Defeat Stress Induces Neuroinflammation and Impairs Hippocampal Neurogenesis That Differentially Regulate Mood and Cognition. Psychoneuroimmunology Research Society (PNIRS). Seattle, WA
- McKim DB**, Patterson JM, Wohleb ES, Jarrett BL, Reader B, Godbout JP and Sheridan JF (2015). Sympathetic Release of Splenic Monocytes Promotes Recurring Anxiety Following Repeated Social Defeat. Oral presentation. Psychoneuroimmunology Research Society (PNIRS). Seattle, WA

- Jarrett BL, **McKim DB**, Godbout JP, Sheridan JF (2014). Minocycline attenuates stress-induced changes in anxiety-like behavior and monocyte trafficking to the brain, but not peripheral myelopoiesis or leukocyte redistribution. Society for Neuroscience Convention (SFN). Washington, D.C.
- McKim DB**, Patterson JM, Wohleb ES, Jarrett BL, Reader BF, Godbout JP, & Sheridan JF (2014). Sympathetic initiation of myeloid cell trafficking from the spleen to the brain caused the re-establishment of anxiety in stress-sensitized mice. Oral presentation, Society for Neuroscience Convention (SFN). Washington, D.C.
- Ramirez KG, Shea DT, **McKim DB**, Reader BF, Sheridan JF (2014). Imipramine attenuates neuroinflammation and reverses stress-induced social avoidance. Psychoneuroimmunology Research Society (PNIRS). Philadelphia, PA
- Sawicki CE, **McKim DB**, Wohleb ES, Jarrett BL, Reader BF, Norden DM, Godbout JP, Sheridan JF (2014). Induction of Leukocyte Adhesion Mediators in the Neurovascular Unit after Repeated Social Defeat. Psychoneuroimmunology Research Society (PNIRS). Philadelphia, PA
- Jarrett BL, **McKim DB**, Godbout JP, Sheridan JF (2014). Minocycline attenuates stress-induced changes in leukocyte activation and anxiety-like behavior. Psychoneuroimmunology Research Society (PNIRS). Philadelphia, PA
- McKim DB**, Patterson JM, Wohleb ES, Jarrett BL, Sheridan JF, Godbout JP (2014). Sympathetic initiation of monocyte trafficking from the spleen to the brain caused the re-establishment of anxiety in stress-sensitized mice. Oral presentation. Psychoneuroimmunology Research Society (PNIRS). Philadelphia, PA
- Tarr AJ, Shea DT, Wohleb ES, **McKim DB**, Godbout JP, Sheridan JF (2013). Behavioral and immunological alterations following repeated exposure to a paired fighting social stress paradigm. Society for Neuroscience Convention (SFN). San Diego, CA.
- Wohleb ES, Shea DT, **McKim DB**, Tarr AJ, Sheridan JF, Godbout JP (2013). Acute social defeat promoted anxiogenic macrophage recruitment in the brain of stress-sensitized mice. Society for Neuroscience Convention (SFN). San Diego, CA.
- McKim DB**, Tarr AJ, Wohleb ES, Sheridan JF, & Godbout JP (2013). Repeated social defeat elevates hippocampal cytokines, impairs neurogenesis, and disrupts spatial memory consolidation. Society for Neuroscience Convention (SFN). San Diego, CA.
- Wohleb ES, Shea DT, Huang Y, **McKim DB**, Powell ND, Tarr AJ, Sheridan JF, & Godbout JF (2013). Acute social defeat promoted anxiogenic macrophage recruitment into the brains of sensitized mice. Oral presentation Psychoneuroimmunology Research Society (PNIRS). Stockholm, Sweden
- Benno R, **McKim DB**, Rendon T, Schanz N (2012). Adult social behavior in BTBR T+ tf/J mice following neonatal administration of oxytocin. Oral presentation International Behavioral Neuroscience Society (IBNS), Symposia on Genetic and Epigenetic Factors in Autism. Kailua-Kona, Hawaii.
- Diamond BJ, **McKim DB**, Mosley JE, Winters B, Krynicky J, Golden A, & Bailey M (2012). Impairments in cognition are associated with depressed mood in "healthy"; college-age students. Association for Psychological Science (APS). Chicago, IL.

Diamond BJ, Johnson SK, Zhanna D, Meyers C, Zeidan F, **McKim DB** (2011) Executive costs, processing speed, and affect. Association for Psychological Science (APS). Washington, DC.

Diamond BJ, Mosley J, Moors AC, Moreines J, Kosztyo K, **McKim DB** (2010). Deconstructing information processing speed using novel accuracy selectable programs. Association for Psychological Science (APS). Boston, MA.