

CURRICULUM VITAE

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Education

- Postdoctoral Research Fellow, **Duke University** Psychology and Neuroscience, (2008 - 2012)
- Ph.D., Neuroscience, **University of Maryland Medical School** (2002 - 2008)
- B.A., Psychology, **Boston College** (1998 - 2002)

Honors

2013 University of Delaware nominated Searle Scholar applicant for 2014.
2013 Elected Secretary of the Organization for the Study of Sex Differences (OSSD)
2012 **Travel Award Winner** American College of Neuropharmacology (ACNP) annual meeting FL.
2012 Presented at the NIDA Frontiers in Research Minisymposium Poster Session, New Orleans, LA
2010 Winner Society for Neuroscience (SfN) **Postdoctoral Fellow Travel Award** to attend SFN Annual Meeting in San Diego, 2010.
2010 Research from *Endocrinology* article highlighted/reviewed by a member of **F1000 faculty**.
2009 Winner \$750 **Postdoctoral Award for Professional Development** from Duke University
2009 **Winner Travel Award** to attend the Early Life Programming and Neurodevelopmental Disorders Meeting in Philadelphia, PA.
2009 **Winner Travel Award** to attend the Society for Behavioral Neuroendocrinology Annual Meeting in East Lansing, MI.
2008 Research from *Neuron* article highlighted/reviewed by two members of **F1000 faculty**.
2008 Research from *Neuron* article was selected for a **Nature Reviews Highlight** entitled, "What Maketh the Man?"
2000 Member Psi Chi National Psychology Honors Society

Original Scientific Publications

Schwarz JM, Smith SH, Bilbo SD. FACS analysis of neuronal-glia interactions in the nucleus accumbens following morphine administration. *Psychopharmacology* (2013) June; Epub ahead of print.

Schwarz JM and Bilbo SD. Adolescent morphine exposure increases the risk of relapse to drug-seeking behavior in adulthood: critical role for long-term changes in glial function. *Journal of Neuroscience* (2013) Jan 16; 33(3):961-71.

Schwarz JM*, Sholar PS*, Bilbo SD. Sex differences in microglial colonization of the developing rat brain. *Journal of Neurochemistry* (2012) Mar; 120(6):948-63. * Both authors contributed equally to this work.

Schwarz JM, Hutchinson MR, Bilbo SD. Early-Life Experience Decreases Potential Abuse Liability of Morphine in Adulthood via Microglial-Specific Epigenetic Programming of Anti-Inflammatory IL-10 Expression. *Journal of Neuroscience* (2011) 31(49):17835-17847

Schwarz JM and Bilbo SD. LPS elicits a much larger and broader inflammatory response than *Escherichia coli* infection within the hippocampus of neonatal rats. *Neurosci. Lett.* (2011) Jun 22; 497(2): 110-5.

Schwarz JM*, Nugent BM*, McCarthy MM. Developmental and Hormone-Induced Epigenetic Changes to Estrogen and Progesterone Receptor Genes in Brain Are Dynamic across the Life Span. *Endocrinology*. (2010) Oct; 151(10): 4871-8. * Both authors contributed equally to this work.

Schwarz JM and McCarthy MM. The role of neonatal NMDA receptor activation in defeminization and masculinization of sex behavior in the rat. *Hormones and Behavior* (2008) Nov; 54(5): 662-8.

Schwarz JM, Liang SL, Thompson SM, McCarthy MM. Estradiol induces dendritic spines on developing hypothalamic neurons by enhancing glutamate release independent of transcription: A mechanism for an organizational sex difference, *Neuron* (2008) May 22; 58(4): 584-98.

Hadjimarkou MM, Benham R, **Schwarz JM**, Holder MK, Mong JA. Estradiol suppresses activation of putative sleep neurons in the ventrolateral preoptic area of the adult rat, *European Journal of Neuroscience* (2008) Apr; 27(7): 1780-92.

Todd BJ, **Schwarz JM**, Mong JA, and McCarthy MM. Glutamate AMPA/kainate receptors, not GABA_A receptors, mediate estradiol induced sex differences in hypothalamic dendritic spines, *Developmental Neurobiology*. (2007) Jan; 67(3): 304-15.

Todd BJ, **Schwarz JM**, and McCarthy MM. Prostaglandin E₂: A point of divergence in estradiol mediated sexual differentiation. *Hormones and Behavior*. (2005) Dec; 48(5): 512-21.

Invited Reviews

Bilbo SD and **Schwarz JM**. The immune system and developmental programming of brain and behavior. *Front Neuroendocrinol*. (2012) Aug; 33(3): 267-86.

Schwarz JM and Bilbo SD. Sex, glia, and development: interactions in health and disease. *Horm Behav*. (2012) Aug; 62(3): 243-53

Bilbo SD, Smith SH, **Schwarz JM**. A Lifespan Approach to Neuroinflammatory and Cognitive Disorders: A Critical Role for Glia. (Review) *J Neuroimmune Pharmacol*. 2011 Aug 6. PMID: 21822589.

Nugent BM, **Schwarz JM**, McCarthy MM. Hormonally-mediated Epigenetic Changes to Steroid Receptors in the Developing Brain: Implications for Sexual Differentiation. (Review) *Hormones and Behavior*. 2011 Mar; 59(3): 338-44.

McCarthy MM, Auger AP, Bale TL, Devries G, Dunn G, Forger N, Murray E, Nugent B, **Schwarz JM**, and Wilson ME. The Epigenetics of Sex Differences in the Brain. *Journal of Neuroscience*, (Review). 2009; 29(41): 12815-23.

Bilbo SD and **Schwarz JM**. Early-Life Programming of Later-Life Brain and Behavior: A Critical Role for Innate Immunity. (Review) *Frontiers in Behavioral Neuroscience*. 2009; (3)14.

McCarthy MM, Wright CL, **Schwarz JM**. New Tricks by an Old Dogma: Mechanisms of the Organizational / Activational Hypothesis of Steroid-Mediated Sexual Differentiation of Brain and Behavior. (Review) *Hormones and Behavior*. 2009 May; 55(5): 655-65.

Schwarz JM and McCarthy MM. Steroid-induced sexual differentiation of the developing brain: Multiple pathways, one goal. (Review) *Journal of Neurochemistry*. 2008 Jun; 105(5): 1561-72.

McCarthy MM, **Schwarz JM**, Wright CL, Dean SL. Mechanisms mediating estradiol modulation of the developing brain. (Review) *Journal of Neuroendocrinology* 2008 Jun; 20(6): 777-83.

Schwarz JM and McCarthy MM. Cellular mechanisms of estradiol-mediated masculinization of the brain. (Review); *Journal of Steroid Biochemistry and Molecular Biology* 2008 Apr 109; (3-5): 300-6.

Books

Schwarz JM and Bilbo SD. Microglia and Neurodevelopment: Programming Cognition Throughout the Lifespan. *The Handbook of Psychoneuroimmunology*. (Book Chapter). 2012 Wiley-Blackwell.

Schwarz JM and Bilbo SD. The Immune System and Brain Development. Series entitled: *The Developing Brain*. 2011 (Book).