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Education

Doctor of Philosophy, Psychology (Neuroscience minor), The Ohio State University, 2000.
Master of Arts, Psychology, The Ohio State University, 1997.
Bachelor of Arts, Psychology, *summa cum laude*, St. Mary's College of Maryland, 1993.

Academic and Research Appointments

Associate Professor, Psychology, St. Mary's College of Maryland, 2010-present.
Coordinator, Neuroscience Minor, St. Mary's College of Maryland, 2008-2010, 2011-present.
Assistant Professor, Psychology, St. Mary's College of Maryland, 2004-2010.
Postdoctoral Fellow, Neuropharmacology & Neuroscience, Albany Medical College, 2000-2004.

Courses Taught

Introduction to Psychology (PSYC 101)
Introduction to the Neurosciences (NEUR 201)
Seminar in the Neurosciences (NEUR 301/303)
Directed Research in the Neurosciences (NEUR 302)
Laboratory Skills in Behavioral Neuroscience (IDIS 340)
Drugs, Brains, and Behavior (PSYC 314)
Biological Psychology with Laboratory (PSYC 422)
Special Topics Seminar in Psychology: Schizophrenia (PSYC 491)
St. Mary's Project in Psychology (PSYC 493/494)
Introduction to Gender Studies (WGSX 210)

Additional Teaching Experience

Adjunct Professor, Introduction to Psychology, Skidmore College, 2003.
Adjunct Professor, Pathophysiology I, Albany College of Pharmacy, 2003.
Adjunct Professor, Introductory Psychology, Sage College of Albany, 2002.
Lab Assistant, Neuroanatomy, Medical Education, Albany Medical College, 2000-2003.
Lecturer, Nurse Anesthetist Master's Degree Program, Albany Medical College, 2000-2001.
Graduate Teaching Associate, General Psychology, The Ohio State University, 1996-1998.

Research Funding and Fellowships

Subaward under Research Project Grant R01DA14020 (P. O'Donnell, UMB), 2008-present.
Council on Undergraduate Research, Psychology Summer Undergraduate Fellowship, 2006.
Support of Mentors and their Students in the Neurosciences (SOMAS) Award, Summer 2006.
Faculty Development Award, St. Mary's College of Maryland, August 2004-present.
Individual National Research Service Award (NRSA), NIDA, October 2001-September 2003.
Postdoctoral Fellowship, NIDA Institutional NRSA Training Grant, Albany Medical College, 2000.
Presidential Fellowship, The Ohio State University, 1999.
Phi Kappa Phi Graduate Enrichment Award, The Ohio State University Chapter, 1998.

Honors and Awards

Eli Lilly Travel Fellowship Award, Society of Biological Psychiatry Annual Meeting, April 2004.
Travel Fellowship, New York Academy of Sciences, April 2003.
Winner, *Nature Reviews Neuroscience* Highlights Competition, January 2003.
Best Non-Student Poster Award, Dopamine 2002, July 2002.
Travel Award, 9th International Conference on *In Vivo* Methods, June 2001.
Travel Grant, Committee on Institutional Cooperation: Women in Science & Engineering, 1999.
Travel Award, 8th International Conference on *In Vivo* Methods, June 1999.
Preparing Future Faculty (PFF) Fellowship, The Ohio State University, March 1999.
Citizenship Award, General Psychology, The Ohio State University, June 1998.
Research and Graduate Council University Fellowship, The Ohio State University, 1994-1996.
Psychology/Human Development Major Award, St. Mary's College of Maryland, 1993.
Junior and Senior St. Mary's Scholar, St. Mary's College of Maryland, 1992-1993.
Brent-Calvert Fellowship, St. Mary's College of Maryland Honors Program, 1989-1993.
Maryland Distinguished Scholar, 1989-1993.

Student Mentoring and Research Supervision

St. Mary's Projects (Senior Research Projects): 26 empirical, 3 non-empirical, 2005-2011
Directed Research (academic year): 24 students, 2005-2011
Summer Research Internships (full-time): 8 students, 2006-2011
Independent Study: 3 students, 2009-2010

Student Mentee Honors and Awards

Research Honors:

Julie Bernstein '11, Florence P. Haseltine Outstanding New Investigator Poster Award, Fifth Annual Meeting of the Organization for the Study of Sex Differences, June 2011.
Robert Blackwell '08, Myron G. Marlay St. Mary's Project Award, 2008.
Gwendolyn Calhoun '06, Myron G. Marlay St. Mary's Project Award, 2006.
Megan MacFarland '06, Myron G. Marlay St. Mary's Project Award, 2006.

Research Funding and Fellowships:

Jacqueline Fullerton '12, Psi Chi/Council on Undergraduate Research Summer Grant, 2011.
Julie Bernstein '11, Psi Chi Summer Research Grant, 2010.
Jesse Flerlage '11, Sigma Xi Grant-in-Aid of Research, 2010.
Elizabeth Smith '10, Sigma Xi Grant-in-Aid of Research, 2009.
Christopher Heiland '09, Sigma Xi Grant-in-Aid of Research, 2009.
Jennifer Slomski '09, Sigma Xi Grant-in-Aid of Research, 2008.
Robert Blackwell '08, Sigma Xi Grant-in-Aid of Research, 2007.
Jacquelyn McGill '07, Sigma Xi Grant-in-Aid of Research, 2006.
Jacquelyn McGill '07, Psi Chi Undergraduate Research Grant, 2006.
Chelsea Reid '07, Sigma Xi Grant-in-Aid of Research, 2006.
Casimira Ruiz '07, Sigma Xi Grant-in-Aid of Research, 2006.

Travel Awards:

Alex Hernandez '10, Council on Undergraduate Research Biology Division Travel Award, 2009.
Robert Blackwell '08, Geneva Boone St. Mary's Project Award, 2008.
Gwendolyn Calhoun '06, Faculty for Undergraduate Neuroscience Student Travel Award, 2006.
Matthew Wiest '07, Council on Undergraduate Research Biology Division Travel Award, 2006.

Invited Presentations and Symposia

Physiological and neuroanatomical effects of alcohol. Orientation Leaders Training Session, St. Mary's College of Maryland, August 2008.

Electrophysiology of dopamine-glutamate interactions in the nucleus accumbens. Mini-Symposium (co-chair), 34th Annual Meeting of the Society for Neuroscience, San Diego, CA, October 2004.

Drug addiction in the rat brain. Department of Psychology, St. Mary's College of Maryland, St. Mary's City, MD, April 2004.

Neurophysiology of dopamine-glutamate interactions in the nucleus accumbens. 16th Annual Meeting, Winter Conference on Neural Plasticity, St. Lucia, West Indies, February 2004.

Dopamine-glutamate interactions in the nucleus accumbens: Implications for behavior and psychopathology. Department of Pharmacology, Boston University School of Medicine, Boston, MA, February 2004.

Publications and Manuscripts (* denotes undergraduate co-authors)

Brady, A.M., *Saul, R.D., and *Wiest, M.K. (2010). Selective deficits in spatial working memory in the neonatal ventral hippocampal lesion rat model of schizophrenia. *Neuropsychopharmacology*, *59*, 605-611.

Brady, A.M. (2009). Neonatal ventral hippocampal lesions disrupt set-shifting ability in adult rats. *Behavioral Brain Research*, *205*, 294-298.

Brady, A.M., McCallum, S.E., Glick, S.D., and O'Donnell, P. (2008). Enhanced methamphetamine self-administration in a neurodevelopmental rat model of schizophrenia. *Psychopharmacology*, *200*, 205-215.

Brady, A.M., Glick, S.D., and O'Donnell, P. (2005). Selective disruption of nucleus accumbens gating mechanisms in rats behaviorally sensitized to methamphetamine. *Journal of Neuroscience*, *25*, 6687-6695.

Brady, A.M., and O'Donnell, P. (2004). Dopaminergic modulation of prefrontal cortical input to nucleus accumbens neurons *in vivo*. *Journal of Neuroscience*, *24*, 1040-1049.

Himmelheber, A.M., Sarter, M., and Bruno, J.P. (2001). The effects of manipulations of attentional demand on cortical acetylcholine release. *Cognitive Brain Research*, *12*, 353-370.

Himmelheber, A.M., Bruno, J.P., and Sarter, M. (2000). Effects of intra-accumbens infusions of amphetamine or *cis*-flupenthixol on sustained attention performance in rats. *Behavioural Brain Research*, *116*, 123-133.

Himmelheber, A.M., Sarter, M., and Bruno, J.P. (2000). Increases in cortical acetylcholine release during sustained attention performance in rats. *Cognitive Brain Research*, *9*, 313-325.

Himmelheber, A.M., Fadel, J., Sarter, M., and Bruno, J.P. (1998). Effects of local cholinesterase inhibition on acetylcholine release assessed simultaneously in prefrontal and frontoparietal cortex. *Neuroscience*, *86*, 949-957.

Himmelheber, A.M., Sarter, M., and Bruno, J.P. (1997). Operant performance and cortical acetylcholine release: Role of response rate, reward density, and non-contingent stimuli. *Cognitive Brain Research*, 6, 23-36.

Book Chapters and Invited Reviews

Brady, A.M., Glick, S.D., and O'Donnell, P. (2003). Changes in electrophysiological properties of nucleus accumbens neurons depend on the extent of behavioral sensitization to chronic methamphetamine. *Annals of the New York Academy of Sciences*, 1003, 358-363.

Bruno, J.P., Sarter, M., Arnold, H.M., and **Himmelheber, A.M.** (1999). In vivo neurochemical correlates of cognitive processes: Methodological and conceptual challenges. *Reviews in the Neurosciences*, 10, 25-48.

Sarter, M., Bruno, J.P., and **Himmelheber, A.M.** (1997). Cortical acetylcholine and attention: Neuropharmacological and cognitive principles directing treatment strategies for cognitive disorders. In J.E. Brioni and M.W. Decker (Eds.), *Pharmacological Treatment of Alzheimer's Disease: Molecular and Neurobiological Foundations* (pp. 105-128). New York: John Wiley.

Published Abstracts and Presentations (* denotes undergraduate co-authors)

*Miller, E.D., *Tatem, K.S., *Placek, K., and **Brady, A.M.** (2011). Effects of self-administered or experimenter-administered cocaine on behavioral abnormalities in the neonatal ventral hippocampal lesion model of schizophrenia. *2011 Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience (in press).

*Placek, K., *Turek, K.C., *Fullerton, J.N., and **Brady, A.M.** (2011). Relationships between behavioral abnormalities and set-shifting impairments in the neonatal ventral hippocampal lesion model of schizophrenia. *2011 Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience (in press).

*Tracy, M.G., *Turek, K.C., Bailey, A.M., **Brady, A.M.**, Milstein, J., & Frost, D. O. (2011). The effects of adolescent olanzapine exposure on behavior in the neonatal ventral hippocampal lesion model of schizophrenia. *2011 Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience (in press).

*Bernstein, J.E., *Kircher, D.M., and **Brady, A.M.** (2011). Developmental exposure to low doses of bisphenol-A: Sex-dependent behavioral effects in adult offspring. Organization for the Study of Sex Differences Annual Meeting, Oklahoma City, OK, June 2011.

*Hernandez, A.E., *Smith, E.S., *Cammarata, E.M., and **Brady, A.M.** (2010). Behavioral abnormalities in the neonatal ventral hippocampal lesion model of schizophrenia following cocaine self-administration. Program No. 62.21, *2010 Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.

*Kircher, D.M., and **Brady, A.M.** (2010). An investigation of the behavioral effects of perinatal bisphenol-A exposure in comparison to disruptions observed in animal models of schizophrenia. Program No. 62.6, *2010 Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.

- *Heiland, C.T., *Hernandez, A.E., and **Brady, A.M.** (2009). An investigation of sex differences in the neonatal ventral hippocampal lesion rat model of schizophrenia. Program No. 341.28, 2009 *Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.
- *Blackwell, R.A., Gould, T.D., and **Brady, A.M.** (2008). Cognitive and behavioral deficits in beta-catenin knockout mice: an endophenotype approach to modeling bipolar disorder. Program No. 157.8, 2008 *Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.
- Brady, A.M.**, Bailey, A.M., *Calhoon, G.G., *Logan, T.T., *McGill, J.A., *Ruiz, C.T., and *Saul, R.D. (2007). Impaired executive function and learning set formation in the neonatal ventral hippocampal lesion model of schizophrenia. Program No. 607.11, 2007 *Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.
- *Saul, R.D., *Ruiz, C.T., and **Brady, A.M.** (2006). Cognitive deficits following repeated methamphetamine administration in rats. Faculty for Undergraduate Neuroscience (FUN) Undergraduate Research Poster Session, Atlanta, Georgia, October 2006.
- *Calhoon, G.G., and **Brady, A.M.** (2006). The effects of cognitive intervention in adolescence on behavioral abnormalities in a neurodevelopmental rat model of schizophrenia. Prog. No. 687.4, 2006 *Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.
- *Saul, R.D., *Wiest, M.K., and **Brady, A.M.** (2006). Spatial working memory deficits in the neonatal ventral hippocampal lesion rat model of schizophrenia. Program No. 687.3, 2006 *Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.
- *Calhoon, G.G., and **Brady, A.M.** (2006). The effects of cognitive intervention in adolescence on behavioral abnormalities in a rat model of schizophrenia. Symposium for Young Neuroscientists and Professors of the Southeast (SYNAPSE), Davidson, North Carolina, April 2006.
- *Saul, R.D., *Wiest, M.K., and **Brady, A.M.** (2006). Effect of a neonatal ventral hippocampal lesion on working memory in rats. Symposium for Young Neuroscientists and Professors of the Southeast (SYNAPSE), Davidson, North Carolina, April 2006.
- Brady, A.M.**, Glick, S.D., and O'Donnell, P. (2005). Methamphetamine self-administration is enhanced in the neonatal ventral hippocampal lesion model of schizophrenia. Program No. 556.2, 2005 *Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.
- Brady, A.M.**, Glick, S.D., and O'Donnell, P. (2005). Patterns of methamphetamine self-administration in the neonatal ventral hippocampal lesion model of schizophrenia. Society of Biological Psychiatry Annual Meeting, Atlanta, Georgia, May 2005.
- Brady, A.M.**, Glick, S.D., and O'Donnell, P. (2004). Dopamine and glutamate inputs to nucleus accumbens neurons are altered in animals behaviorally sensitized to chronic methamphetamine. Program No. 358.5, 2004 *Abstract Viewer/Itinerary Planner*, Washington DC: Society for Neuroscience. Online.
- Brady, A.M.**, and O'Donnell, P. (2004). D2-receptor modulation of prefrontal cortical input to nucleus accumbens neurons. *Biological Psychiatry*, 55: 61S.

Brady, A.M., and O'Donnell, P. (2003). Stimulation of the ventral tegmental area suppresses prefrontal cortical input to nucleus accumbens neurons via D2 receptors. Program No. 461.1, *2003 Abstract Viewer/Itinerary Planner*, Washington, DC: Society for Neuroscience. Online.

O'Donnell, P., Glick, S.D., Barnhardt, N.E., and **Brady, A.M.** Electrophysiology of interactions between prefrontal cortex, nucleus accumbens, and ventral tegmental area in rats behaviorally sensitized to methamphetamine. Program No. 112.10, *2003 Abstract Viewer/Itinerary Planner*, Washington, DC: Society for Neuroscience. Online.

O'Donnell, P., **Brady, A.M.**, and Glick, S.D. (2003). Accumbens physiological properties are different in animals showing behavioral sensitization versus those that do not sensitize after repeated methamphetamine. *Behavioral Pharmacology*, 14 (Suppl. 1), S57.

Brady, A.M., Glick, S.D., and O'Donnell, P. Changes in electrophysiological properties of nucleus accumbens neurons depend on the extent of behavioral sensitization to chronic methamphetamine. Glutamate and Disorders of Cognition and Motivation: A New York Academy of Sciences Conference, New Haven, Connecticut, April 2003.

Himmelheber, A.M., Glick, S.D., and O'Donnell, P. Electrophysiology of nucleus accumbens neurons after chronic administration of methamphetamine. Program No. 461.8. *2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience. Online.

Himmelheber, A.M., and O'Donnell, P. Attenuation of prefrontal cortical input to nucleus accumbens neurons by ventral tegmental area stimulation. Dopamine 2002, Portland, Oregon, July 2002.

Himmelheber, A.M., and O'Donnell, P. (2002) Modulation of prefrontal cortex-nucleus accumbens synaptic responses by stimulation of the ventral tegmental area *in vivo*. 35th Winter Conference on Brain Research, Snowmass, Colorado, January 2002.

O'Donnell, P, Goto, Y. and **Himmelheber, A.M.** (2001) Limbic-cortical integration in the nucleus accumbens: *in vivo* electrophysiological studies. 40th Annual Meeting of the American College of Neuropharmacology, Waikoloa, Hawaii, December 2001.

Himmelheber, A.M., and O'Donnell, P. (2001). Stimulation of the ventral tegmental area affects prefrontal cortex-nucleus accumbens synaptic responses *in vivo*. *Society for Neuroscience Abstracts*, 27, Program No. 67.14.

Himmelheber, A.M., and O'Donnell, P. (2001). Effects of ventral tegmental area stimulation on synaptic responses to prefrontal cortex stimulation in nucleus accumbens *in vivo*. *Monitoring Molecules in Neuroscience: Proceedings of the 9th International Conference on In Vivo Methods*, 213-214.

Himmelheber, A.M., Hodgson, E.M., Sarter, M., and Bruno, J.P. (2000). Effects of manipulations of attentional demand on cortical acetylcholine release in task-performing rats. *Society for Neuroscience Abstracts*, 26, 2225.

Himmelheber, A.M., Sarter, M., and Bruno, J.P. (1999). Sustained attention performance is associated with cortical acetylcholine release in rats. *Society for Neuroscience Abstracts*, 25, 1895.

- Bruno, J.P., **Himmelheber, A.M.**, and Sarter, M. (1999). Effects of intra-accumbens infusions of amphetamine or flupenthixol on sustained attention in rats. *Society for Neuroscience Abstracts*, 25, 1895.
- Himmelheber, A.M.**, Sarter, M., and Bruno, J.P. (1999). Cortical acetylcholine release during vigilance performance in rats. *Monitoring Molecules in Neuroscience: Proceedings of the 8th International Conference on In Vivo Methods*, 141-142.
- Himmelheber, A.M.**, Sarter, M., and Bruno, J.P. (1998). Cortical acetylcholine release during performance of a vigilance task in rats. *Society for Neuroscience Abstracts*, 24, 2128.
- Sarter, M., **Himmelheber, A.M.**, and Bruno, J.P. (1998). Infusions of dopaminergic ligands into the nucleus accumbens: Effects on vigilance performance in rats. *Society for Neuroscience Abstracts*, 24, 2128.
- Sarter, M., Bruno, J.P., Fadel, J., Miner, L.A.H., **Himmelheber, A.M.**, McGaughy, J., and Turchi, J. (1998). Afferent regulation of cortical acetylcholine and cognitive function. Annual Meeting of the British Association of Psychopharmacology, Cambridge, England, July 1998.
- Himmelheber, A.M.**, Fadel, J., Sarter, M., and Bruno, J.P. (1997). The parallel assessment of acetylcholine efflux in two cortical areas: Effects of tactile stimulation and cholinesterase inhibition. *Society for Neuroscience Abstracts*, 23, 2016.
- Himmelheber, A.M.**, Katovic, N.M., Sarter, M., and Bruno, J.P. (1996). Cortical acetylcholine efflux and operant performance: Role of attentional and non-attentional components. *Society for Neuroscience Abstracts*, 22, 436.
- Bruno, J.P., Sarter, M., **Himmelheber, A.M.**, and Katovic, N.M. (1996). Cortical acetylcholine efflux and attention. Annual Meeting of the European Behavioral Pharmacology Society, Cagliari, Italy, May 1996.
- Himmelheber, A.M.**, Moore, H., McGaughy, J., Givens, B., Bruno, J.P., and Sarter, M. (1995). Cortical acetylcholine efflux and single unit activity in rats performing operant procedures assessing behavioral vigilance or sensorimotor and motivational task components. *Society for Neuroscience Abstracts*, 21, 1945.

Other Publications

- Brady, A.M.** (2003). Overcoming our fears. *Nature Reviews Neuroscience*, 4, 5.
- Himmelheber, A.M.** (2000). Applying the liberal arts: Full circle. *The Mulberry Tree Papers: St. Mary's College of Maryland Magazine*, vol. 22 (Fall 2000), 22-23.

Professional Activities

Peer Reviewing Activities:

Nu Rho Psi Charter Applications, 2011.
Faculty for Undergraduate Neuroscience Travel Awards, 2007.
National Defense Science and Engineering Graduate Fellowship Program, 2005.
Ad-hoc grant reviewer, National Science Foundation, 2001-2005.
Manuscript reviewer: *Behavioural Brain Research, Biological Psychiatry, European Journal of Neuroscience, Journal of Neurophysiology, Neurobiology of Aging, Neuropharmacology, Neuropsychopharmacology, Neuroscience, Neuroscience Letters, Progress in Neuropsychopharmacology & Biological Psychiatry, Physiology & Behavior*, 2001-present.

Other Activities:

Chair, Institutional Animal Care and Use Committee (IACUC), St. Mary's College of Maryland, 2005-2010, 2011-present.
Institutional Representative, Council on Undergraduate Research, 2005-present.

Academic Service

Community:

Faculty Advisor, Southern Maryland Brain Bee, 2006-present.
Judge, Regional Brain Bee, Glens Falls, New York, April 2004.

College:

Vice President for Academic Affairs & Dean of Faculty Search Committee (Chair), Spring 2011.
Faculty Development Grants Committee, Fall 2008-Spring 2010.
Mini-Class for Parents, New Student Advising Days, Summer 2009 and Summer 2010.
Environmental Health and Safety Coordinator Search Committee, 2008-2009.
Learning Technology Supervisor Search Committee, Fall 2006.
Animal Physiology (Biology) Tenure Track Search Committee, Fall 2005.

Department of Psychology:

Behavioral Neuroscience Visiting Search Committee, Spring 2010.
Developmental Search Committee, Spring 2009.
Assessment Committee, Fall 2007-Spring 2010.
St. Mary's Projects Budget Committee, Fall 2006-Spring 2008.
Sensation/Perception Visiting Search Committee, Spring 2006.
Psychology Minors Committee, Fall 2005.

Professional Memberships and Honor Societies

Society for Neuroscience
Faculty for Undergraduate Neuroscience
Eastern Psychological Association
Society for the Teaching of Psychology
Council on Undergraduate Research

Sigma Xi
Phi Beta Kappa (Historian, 2006-2010)
Nu Rho Psi