Paul J. Meyer, Ph.D.

Curriculum Vitae

Assistant Professor
Behavioral Neuroscience Program
Department of Psychology
B72 Park Hall
University at Buffalo
Buffalo, NY 14260

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Degrees & Education

1999-2005	Ph.D., Behavioral Neuroscience, Oregon Health & Science University Degree Awarded: 6/2/2006 Dissertation: "*Neurochemical Substrates of Ethanol's Locomotor Effects.*" Thesis Advisor: Tamara J. Phillips, Ph.D.
1994-1997	B.S., Psychology as a Natural Science, University of Michigan

Other Currently Held Positions

Affiliated Research Scientist
January 2012 to present
Research Institute on Addictions

Research & Work Experience

Assistant Professor
Department of Psychology, Behavioral Neuroscience Program
August 2012 to present
The overall research goal of my laboratory is to determine the precise role of the brain's reward circuitry in appetitive learning and drug addiction, and how motivated behavior is controlled by reward-associated stimuli ("cues"). To this end, my laboratory specializes in behavioral and in vivo neurophysiological techniques to study neural connections within reward-related brain areas. Further, I am interested in how individual differences in the ability of cues to control motivated behavior are reflected by neural activity within this circuitry (specifically the ventral basal ganglia), and how genetic and environmental factors interact to influence the magnitude of these differences.

Research Fellow
University of Michigan
July 2008 to August 2012
My research as a post-doc examined how stimuli associated with food and abused drugs (amphetamine, cocaine, alcohol, etc.) are encoded in the brain. With Drs. Terry Robinson and Wayne Aldridge, I used *in vivo* electrophysiology to record from dopamine-containing areas of the basal ganglia to determine whether the neurons within these brain areas encode the incentive or predictive value of stimuli. In addition, I conducted a number of behavioral studies investigating how incentive value is attributed to different types of stimuli (visual, auditory, environmental, etc), and how abused drugs such as amphetamine alter the motivational value of these stimuli.

Research Associate
Oregon Health & Science University
October 2007 to June 2008
As a research associate at Oregon Health & Science University, I used multiple genetic mouse models to study oral nicotine self-administration during adolescence on sensitivity to alcohol. In addition, I investigated the role of stress hormones in alcohol sensitivity and sensitization.

Post-Doctoral Fellow
Washington State University
September 2005 to September 2007
My research in the laboratories of Drs. Michael Morgan and Susan Ingram involved several behavioral investigations of the neural substrates of associative and non-associative morphine tolerance. I also conducted electrophysiological studies of brain areas involved in drug dependence. Specifically, I used whole-cell recording techniques to measure neurophysiological correlates of dependence within the mesolimbic dopamine system and periaqueductal gray, areas known to be critical for psychostimulant and opiate addiction.

Graduate Student
Oregon Health & Science University, Department of Behavioral Neuroscience
June 1999 to August 2005
Experiments conducted during my graduate work have been with animal models of behavioral and motor disorders, including alcoholism and Parkinson's disease. Work in Dr. Christopher Cunningham's laboratory utilized drug conditioning paradigms to study the motivational effects of alcohol. Work towards my doctoral dissertation in Dr. Tamara Phillips' laboratory included the use of microdialysis and stereotaxic brain lesioning in order to determine the neural substrates of alcohol sensitivity. I have also used pharmacological methods to identify neurochemical mechanisms associated with initial sensitivity and neuroadaptations to alcohol.

Research Technician
University of Chicago, Department of Psychiatry
October 1997 to June 1999
At the Human Behavioral Psychopharmacology Laboratory, working under the direction of Drs. Harriet de Wit and Andrea King, I was involved in taking subjective and objective measures from subjects, including saccadic eye movement tracking, physiological measures, and computer based tests of attention and motor coordination. I was also involved in recruitment and screening of subjects, as well as statistical analysis.

Research Assistant
University of Michigan, Department of Psychology
August 1996 to December 1996
My undergraduate research project involved administering attention-based tasks to human subjects, including lateral light displays, line-bisection, and other stimulus arrays.

Grants and Funding

Active

P50 DA037844 (Palmer)	06/15/14 – 04/30/19	2.0 Calendar, 1.0 Summer
NIDA	$262,335 (Subcontract)	

Integrated GWAS of complex behavioral and gene expression traits in outbred rats
This project using non- human animal models will provide an in-depth understanding of the relationships behavioral phenotypes of five psychological traits (sensation seeking, inattention, impulsivity, habituation, and

attribution of incentive salience) and cocaine conditioned cue preference. In addition, animals will be genotyped to determine genetic influences on individual differences in the expression of five psychological traits and cocaine cue preference.
Role: Co-Investigator

Pilot project for P50 DA037844 (Meyer) 01/01/15 – 04/30/2016
NIDA $33,000
The effects of cadherin-13 gene deletion on addiction-like behaviors
This project investigates the role of the gene encoding cadherin-13 on cocaine self-administration and cue-induced reinstatement in a rat model of relapse. There is no additional effort for Dr. Meyer for this proposal.
Role: Principal Investigator

Pending
R01 AA024112 (Meyer) 07/01/15 – 06/30/20 1.0 Calendar, 2.0 Summer
NIAAA $250,000
Nicotine amplification of behavioral and neural responses to alcohol cues
This project will use rodent models of alcohol drinking and nicotine reinforcement to determine the role of environmental stimuli ("cues") in promoting the co-use of these drugs. Electrophysiological techniques and virally delivered proteins will also be used to determine the roles of specific neural circuits in the behavioral responses to these cues. This application received an impact score of 28 (13th percentile) on its first submission and an impact score of 19 (5th percentile) on the resubmission.
Role: Principal Investigator

Completed
F31AA014070-01 (Meyer) 2002 – 2003
NIAAA
Neurochemical Substrates of Ethanol's Locomotor Effects
This competitive research fellowship provides graduate student stipends in addition to some experimental costs.
Role: Principal Investigator

Awards & Fellowships

Fine Science Tools Award: October 2010
American Psychological Association Travel Award: August 2009
International Narcotics Research Conference Travel Award: June 2006
University Club award: October 2004. This is a $5000 competitive award given annually by the Portland University Club.
Research Society on Alcoholism Student Merit/Junior Investigator Award: June 2004
Society for Neuroscience Oregon Chapter Travel Award: May 2004
Research Society on Alcoholism Student Merit/Junior Investigator Award: June 2003
Association for Behavioral Analysis Student Travel Award: May 2003
Society for Neuroscience Oregon Chapter Travel Award: May 2003
Research Society on Alcoholism Student Merit/Junior Investigator Award: June 2002
Research Society on Alcoholism Student Merit/Junior Investigator Award: June 2001
Tartar Trust Fellowship Award: June 2001. This is a $2000 competitive award from the Medical Research Foundation of Oregon.
Research Society on Alcoholism Student Merit/Junior Investigator Award: June 2000
University of Michigan Class Honors: March 1997
GRCC Undergraduate Chemistry Scholarship: January 1994

Classes Taught & Guest Lectures

Biopsychology. (Psychology 351) Spring 2014, Fall 2014, Fall 2015, University at Buffalo. This prerequisite class of 240-300 students is targeted for psychology majors and covers the biological bases of sensation and perception, motor systems, motivation, emotion, and cognition, as well as basic concepts in neuroscience.

Experimental Models of Psychological Disorders. (Psychology 487/861) Spring 2013, Spring 2014, University at Buffalo. This class of approximately 40 undergraduates focuses on the human and animal models and experimental methods used by scientists to study disorders with a psychological basis, such as autism, schizophrenia, drug addiction, depression, attention deficit disorder, obsessive-compulsive disorder, and anxiety.

Behavior Genetics (Psychology 488/715) Fall 2012, Fall 2013 Spring 2015, University at Buffalo. This class of approximately 30 undergraduates is targeted for psychology students with limited biological coursework and covers Mendelian inheritance, basic molecular genetics, quantitative genetics, and evolution.

Operant Behavior (Psychology 390) Summer 2007, Washington State University, Vancouver. In this class of approximately 30 students I covered the basics of Pavlovian, instrumental, and human learning. Syllabus and student evaluations will be provided upon request.

General Genetics (Biology 301) Fall 2006, Washington State University, Vancouver. This class (approximately 70 students) is required for Biology majors and covers population, behavioral, and molecular genetics. Syllabus and student evaluations will be provided upon request.

Guest Lecturer – **Animal Behavior** (Biology 438) Spring 2007, Washington State University, Vancouver. In this class, taught by Dr. Christine Portfors, I delivered a lecture on Drugs and Behavior.

Guest Lecturer – **Biopsychology** (Psychology 290) Fall 2011, University of Michigan. In this class, taught by Dr. J. Wayne Aldridge, I delivered lectures on Learning and Memory, Motivation, and Higher Cognitive Function.

Guest Lecturer – **Biological Bases of Drug Abuse**, Spring 2014, Research Institute on Addictions. In this class taught by Dr. Alexis Thompson, I delivered a lecture on the role of cues in drug-taking behavior.

Guest Lecturer - **Drug Addiction: Theory, Assessment, and Treatment** (Psychology 895), Spring 2014, University at Buffalo. In this class taught by Dr. Stephen Tiffany, I delivered a lecture on the use of animal models to study drug addiction.

Mentoring

Graduate Research Mentor (University at Buffalo): Christopher P. King (Ph.D.), Adam Rutz (M.S.), Jordan Tripi (M.A.), Hailley Pearson (Ph.D.), Kyle Pasquariello (M.A.)

Thesis/Dissertation Committee Member (University at Buffalo): Erikson Neilans (Ph.D.), Naomi McKay (Ph.D.), Julie Gass (Ph.D.), Mauricio Suarez (Ph.D.), Matthew Scalco (Ph.D.), Danielle Adank (M.S.), Rowena Chin (B.A.)

Research Mentor (University at Buffalo): Nathaniel Roberson, Adam Rutz, Michael Demyan, Deonna Coleman, James Catlin, Mustafa Hussain, Laketta Jackson, Curtis Woodward, Amani Abuhamra, James Adegbite, David Donnelly, Craig Ashcroft, Saniya Attar, Jeremy Morowitz, Natasha Singh (undergraduates). Colton Sleister (high school student).

Undergraduate Thesis Research Mentor (University of Michigan, thesis titles indicated)
Brittany Strawman "Amphetamine-Enhanced Sensation Seeking and Its Neural Correlates"
Mary Loretta Ryan: "Neural encoding of incentive salience during cue-controlled cocaine self-administration"

Research Mentor (University of Michigan) – Meghan Wiggins, Ben Wolf, Sarah So, Janae Dupuis, Alexa Jones, David Haidar, Mary Ryan, Matea Mustafaj, Brittany Strawman (undergraduates)

Research Mentor (Washington State University) – James Bruce, Ike Ekeye (undergraduates)

Research Mentor (Oregon Health & Science University) – Megan O'Connor, Brian Troung (high school students).

Papers: Published and in press

Meyer PJ, King CP, & Ferarrio C (2015) "Motivational processes involved in substance abuse disorder" Current Topics in Behavioral Neuroscience.

Meyer PJ, Cogan ES & Robinson TE (2014) "The form of a conditioned stimulus can influence the degree to which it acquires incentive motivation." PLoS One 9: e98163.

Fitzpatrick CJ, Gopalakrishnan S, Cogan ES, Yager LM, **Meyer PJ**, Lovic V, Saunders BT, Parker CC, Gonzales NM, Flagel SB, Palmer AA, Robinson TE & Morrow JD (2013) "Variation in the Form of Pavlovian Conditioned Approach Behavior among Outbred Male Sprague-Dawley Rats from Different Vendors and Colonies" PLoS One 8: e75042.

Paolone G, Angelakos CC, **Meyer PJ**, Robinson TE & Sarter M (2013) "Cholinergic control over attention in rats prone to attribute incentive salience to reward cues" Journal of Neuroscience 33: 8321-35.

Meyer PJ, Lovic V, Saunders BT, Yager LM, Flagel SB, Morrow JD & Robinson TE (2012) "Quantifying individual variation in the propensity to attribute incentive salience to reward cues" PLoS One. 7: e38987

Pastor, R, Reed C, **Meyer PJ**, McKinnon C, Ryabinin AE, Phillips TJ (2012) "Role of Corticotropin Releasing Factor and Corticosterone in Ethanol-Induced Behavioral Sensitization" Journal of Pharmacology and Experimental Therapeutics. 341(2):455-63.

Meyer PJ, Ma ST & Robinson TE (2012) "A cocaine cue is more preferred and evokes more frequency-modulated 50-kHz ultrasonic vocalizations in rats prone to attribute incentive salience to a food cue" Psychopharmacology 219: 999-1009.

Meyer PJ, Morgan MM, Kozell LB, & Ingram SL (2009) "Contribution of dopamine receptors to periaqueductal gray-mediated antinociception" Psychopharmacology 204: 531-540.

Meyer PJ, Meshul CK, & Phillips TJ (2009) "Ethanol- and cocaine-induced locomotion are genetically related to increases in accumbal dopamine" Genes, Brain, & Behavior 8: 346-355.

Meyer PJ, Fossum EN, Ingram SL, & Morgan MM (2007) "Analgesic tolerance to microinjection of the μ-opioid agonist DAMGO into the ventrolateral periaqueductal gray" Neuropharmacology 52: 1580-1585.

Meyer PJ & Phillips TJ (2007) "Behavioral sensitization to ethanol does not result in cross-sensitization to NMDA receptor antagonists" Psychopharmacology 195: 103-115.

Holstein S, Pastor R, **Meyer PJ**, & Phillips TJ. (2005) Naloxone does not attenuate the locomotor effects of ethanol in FAST, SLOW, or two heterogeneous stocks of mice. Psychopharmacology 182: 277-289.

Meyer PJ, Palmer AA, McKinnon C, & Phillips TJ. (2005) "Behavioral sensitization to ethanol is modulated by environmental conditions, but is not associated with cross-sensitization to allopregnanolone or pentobarbital in DBA/2J mice." Neuroscience 131: 263-273.

Meyer PJ & Phillips TJ. (2003) "Sensitivity to ketamine, alone or in combination with ethanol, is altered in mice selectively bred for ethanol's locomotor effects." Alcoholism: Clinical and Experimental Research 27: 1701-1709.

Meyer PJ & Phillips TJ (2003) "Bivalent effects of MK-801 on ethanol sensitization, but no effect on tolerance

to ethanol-induced ataxia." Behavioral Neuroscience 117: 641-649.

Cunningham CL, Tull LE, Rindal KE, & **Meyer PJ** (2002) "Distal and proximal pre-exposure to ethanol in the place conditioning task: tolerance to aversive effect, sensitization to activating effect, but no change in rewarding effect." Psychopharmacology 160: 414–424.

King AC, & **Meyer PJ** (2000) "Naltrexone-induced alterations of nicotine response in a cigarette smoking paradigm." Pharmacology, Biochemistry, & Behavior 66: 563-72.

Selected Oral Presentations

Meyer PJ "Sex-Dependent Correlations between Addiction-Related Behaviors" University of Chicago, NIDA Center for GWAS in Outbred Rats, 2nd Annual Retreat, October 16th, 2015

Meyer PJ "Cue-Directed Behavior: Food, Nicotine, and Alcohol" University at Buffalo, Department of Pharmacology and Toxicology, June 15th, 2015

Meyer PJ "Nicotine enhances the sign-tracking but not the goal-tracking response to a food-associated cue" International Behavioral Neuroscience Society, June 27, 2013

Meyer PJ, Aldridge JW, Robinson TE "Processing the incentive value of reward cues in the ventral basal ganglia: relevance to addiction" University of Michigan Biology of Drug Abuse seminar, March 7, 2011.

Meyer PJ, Aldridge JW, Robinson TE "Incentive salience: Cues, Context, and Conditioned Reinforcement" University of Michigan Department of Psychology Colloquium series" March 9, 2010.

Meyer PJ & Phillips TJ. "Neurochemical Substrates of ethanol's locomotor effects." Presented at Washington State University Science Seminar Series, September 2005.

Meyer PJ & Phillips TJ. "Effects of ethanol on extracellular dopamine levels in the nucleus accumbens of selectively bred FAST and SLOW mice." Presented at the 34rd Annual Society for Neuroscience Meeting, San Diego, CA: October 23-27, 2004.

Meyer PJ & Phillips TJ. "Cocaine-induced dopamine release in the nucleus accumbens of selectively bred FAST and SLOW mice." Presented at the NIDA/NIAAA Training Program Retreat, Vancouver, WA: January 10, 2004.

Meyer PJ, Palmer AA, McKinnon C, & Phillips TJ. "Examining cross-sensitization between alcohol and other locomotor stimulants with multiple paradigms." Presented at the 29th Annual Association for Behavioral Analysis Convention, San Francisco, CA: May 23 – 27, 2003.

Meyer PJ & Phillips TJ. "Midbrain lesions block ethanol-induced locomotion in selectively bred FAST mouse lines." Presented at the NIDA/NIAAA Training Program Retreat, Vancouver, WA: January 11, 2003.

Meyer PJ & Phillips TJ. "Sensitivity to ketamine, alone and in combination with ethanol, is altered in selectively bred FAST and SLOW mouse lines." Presented at the 19th Annual Student Research Forum, Oregon Health Sciences University, Portland, OR: May 20-21, 2002.

Meyer PJ & Phillips TJ. "Effects of MK-801 on the development of ethanol tolerance in the grid test apparatus." Presented at the NIDA/NIAAA Training Program Retreat, Vancouver, WA: January 12, 2002.

Meyer PJ & Phillips TJ. "NMDA antagonism during chronic ethanol treatment." Presented at the 18th Annual Student Research Forum, Oregon Health Sciences University, Portland, OR: May 3-4, 2001.

Meyer PJ & King AC. "Nicotine/opioid interactions and the HPA axis." Presented at the 10th Annual Young Investigators Biomedical Research Symposium: April 15, 1999.

Published Abstracts and Selected Poster Presentations

Richards JB, Kelly G, George T, Grisafi S, **Meyer PJ** & Palmer AA (2015) "Individual differences of delay discounting of heterogeneous stock rats" Poster presented at the 45th Annual Society for Neuroscience Meeting, Chicago, IL October 17-21, 2015

Versaggi CL, King CP, Tripi JA, Solberg-Woods LC, Palmer AA, Richards JB & **Meyer PJ** (2015) "Sex-dependent relationships between Pavlovian conditioned approach and cocaine-induced locomotion in heterogeneous stock rats" Poster presented at the 45th Annual Society for Neuroscience Meeting, Chicago, IL October 17-21, 2015

Tripi JA, Versaggi CL, Daniels D, Dent ML & **Meyer PJ** (2015) "The relationship between cocaine-induced ultrasonic vocalizations and the attribution of incentive salience to food cues" Poster presented at the 45th Annual Society for Neuroscience Meeting, Chicago, IL October 17-21, 2015

King CP, Versaggi CL, Jackson L, & **Meyer PJ** (2015) "Individual differences in nicotine self-administration and the incentive salience of nicotine cues" Poster presented at the 45th Annual Society for Neuroscience Meeting, Chicago, IL October 17-21, 2015

Meyer PJ, King CP, Lucke J, Versaggi CL, Tripi JA, Solberg-Woods L, Palmer AA, Richards JB (2015) "Sex-dependent correlations between addiction-related traits in heterogeneous stock rats" Poster to be presented at the 45th Annual Society for Neuroscience Meeting, Chicago, IL October 17-21, 2015

King CP, Versaggi CL & **Meyer PJ** (2015) "Differential nicotine effects on intravenous and oral alcohol self-administration in rats" Poster to be presented at the 38th Annual Research Society on Alcoholism Meeting, San Antonio, TX June 20-25, 2015

Catlin JP, King CP, Versaggi C, & **Meyer PJ** (2014). A link between cadherin-13 and its role in drug associated cues. University at Buffalo Honors Symposium, May 10, 2014

King, CP, Versaggi CL, Militello L, Catlin J, Palmer AA, Richards JB, & **Meyer PJ** (2014) "Alterations in behavioral regulation and Pavlovian conditioning in cadherin-13 (Cdh13) knock-out rats" Poster presented at the 44th Annual Society for Neuroscience Meeting, Washington, DC November 15-19, 2014

King, CP, Versaggi CL, Militello L, Catlin J, Palmer AA, Richards JB, & **Meyer PJ.** "The effects of cadherin 13 (Cdh13) gene deletion on measures of behavioral regulation and Pavlovian conditioning in rats." Poster presented at the International Behavioral and Neural Genetics Society, May 11, 2014

Meyer PJ (2013) "Nicotine enhances the sign-tracking but not the goal-tracking response to a food-associated cue" Presented at the International Behavioral Neuroscience Society, June 27, 2013

King CP, Richards JB, Palmer AA, Solberg Woods LC, **Meyer PJ** (2013) "Action impulsivity is associated with the tendency to attribute incentive salience to reward cues in heterogeneous N/NIH rats" Poster presented at the 43rd Annual Society for Neuroscience Meeting, San Diego CA November 9-13, 2013

Richards JB, Lloyd DR, **Meyer PJ**, Palmer AA (2013) "Strain differences in measures of behavioral-regulation" Poster to be presented at the 43rd Annual Society for Neuroscience Meeting, San Diego CA November 9-13, 2013

Meyer PJ, Robinson TE, Aldridge JW (2011) "Nucleus accumbens and ventral pallidum neurons preferentially encode the incentive value of a food-associated cue" Poster presented at the 41st Annual Society for Neuroscience Meeting, Washington, DC: November 12-16, 2011

Angelakos CC, Paolone G, **Meyer PJ**, Robinson TE, Sarter M (2011) "Sign- versus goal trackers, top-down control of attention, and underlying cholinergic mechanisms" Poster presented at the 41st Annual Society for Neuroscience Meeting, Washington, DC: November 12-16, 2011

Meyer PJ, Aldridge JW, & Robinson TE (2010) "Amphetamine enhances the reinforcing effect of visual and auditory food cues" Program No. 810.19. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010.

Ma ST, **Meyer PJ**, Ferrario CR, & Robinson TE (2010) "Individual differences in approach to a food-associated cue predict the development of a cocaine-induced conditioned place preference" Program No. 810.18. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010.

Meyer PJ, Aldridge JW, & Robinson TE (2009) "Individual differences in the ability of amphetamine to potentiate the conditioned reinforcing properties of a food-associated cue" Poster presented at the Gordon Catecholamine Research Conference, Biddeford, ME: August 9-14, 2009.

Phillips TJ, **Meyer PJ**, Horton W, Burkhart-Kasch S, Therrien C (2008) "Genetically determined heightened sensitivity to alcohol is associated with increased nicotine intake in adolescent FAST and SLOW mice." Poster presented at the 27th Research Society on Alcoholism Conference, Washington, DC: June 27-July 3, 2008.

Meyer PJ, Ingram SL, Morgan MM (2007) "Dopamine modulates the effects of opioids within the periaqueductal gray." Poster presented at the 37th Annual Society for Neuroscience Meeting, Atlanta, GA: November 3-7, 2007.

McNeal AL, **Meyer PJ**, Morgan MM (2007) "An Investigation of the learned component of morphine tolerance.'' Presented at the Washington State University Research Showcase, April 18-20, 2007.

Meyer PJ, McNeal AL, Vick JL, & Morgan MM (2006) "Concurrent measurement of conditioned morphine tolerance and sensitization." Presented at the 36th Annual Society for Neuroscience Meeting, Atlanta, GA: October 14-18, 2006.

Watts SD, **Meyer PJ**, Amara SG, & Ingram SL. (2006) "Measuring activity of the dopamine transporter in dendrites with fluorescent protein biosensors." Presented at the 36th Annual Society for Neuroscience Meeting, Atlanta, GA: October 14-18, 2006.

Meyer PJ, Fossum EN, Ingram SL, & Morgan MM (2006) "γ-aminobutyric acid transporter (GAT) currents do not mediate morphine tolerance." Presented at the International Narcotics Research Conference, St. Paul, MN: July 9-14, 2006.

Meyer PJ & Phillips TJ. (2004) "Effects of ethanol on extracellular dopamine levels in the nucleus accumbens of selectively bred FAST and SLOW mice." Presented at the 34rd Annual Society for Neuroscience Meeting, San Diego, CA: October 23-27, 2004.

Meyer PJ, Phillips TJ (2004) "Cocaine differentially increases extracellular dopamine levels in the nucleus accumbens of selectively bred FAST and SLOW mice." Presented at the 27th Annual Research Society on Alcoholism Conference, Vancouver, Canada: June 26-30, 2004.

Holstein, SE, **Meyer PJ**, Phillips TJ. (2004) "Assessing the correlated trait of morphine stimulation in FAST mice: role of the endogenous opioid system." Presented at the 27th Annual Research Society on Alcoholism Conference, Vancouver, Canada: June 26-30, 2004.

Meyer PJ, Phillips TJ (2004) "Cocaine differentially increases extracellular dopamine levels in the nucleus accumbens of selectively bred FAST and SLOW mice." Presented at the 4th Annual Oregon Chapter of the Society for Neuroscience Meeting, Salishan, OR: April 24–25, 2004.

Meyer PJ, O'Connor M, & Phillips TJ (2003) "A single injection of estradiol valerate alters ethanol- and saline-induced locomotion in selectively bred FAST and SLOW mice." Presented at the 6th Annual Meeting of the International Behavioral and Neural Genetics Society: November 5-7, 2003.

Meyer PJ & Phillips TJ (2003) "Midbrain lesions block the locomotor response to alcohol in selectively bred

FAST mice." Presented in poster and oral format at the 26th Annual Research Society on Alcoholism Conference, Ft. Lauderdale, FL: June 21-25, 2003.

Meyer PJ & Phillips TJ (2002) "Midbrain lesions block the locomotor response to alcohol in selectively bred fast mice." Poster presented at the 3nd Annual Oregon Chapter of the Society for Neuroscience, Salishan, OR: April 5-6, 2002.

Meyer PJ & Phillips TJ (2002) "Competitive and non-competitive NMDA receptor antagonists have opposite effects on locomotor effects in DBA/2J mice." Poster presented at the 32nd Annual Society for Neuroscience Meeting, Orlando, FL: November 2-7, 2002.

Meyer PJ & Phillips TJ (2002) "Locomotor effects of MK-801 and ketamine in ethanol-sensitized mice." Poster presented at the 25th Annual Research Society on Alcoholism Conference, San Francisco, CA: June 29-July 2, 2002.

Meyer PJ & Phillips TJ (2002) "Locomotor effects of MK-801 and ketamine in ethanol-sensitized mice." Poster presented at the 2nd Annual Oregon Chapter of the Society for Neuroscience, Salishan, OR: May 11-12, 2002.

Meyer PJ & Phillips TJ (2001) "Sensitivity to ketamine, alone and in combination with ethanol, is altered in selectively bred FAST and SLOW mice." Poster presented at the 31st Annual Society for Neuroscience Meeting, San Diego, CA: November 10-15, 2001

Meyer PJ & Phillips TJ (2001)"NMDA antagonism during chronic ethanol treatment." Poster presented at the 24th Annual Research Society on Alcoholism Conference, Montreal, Canada: June 23-28, 2001.

Meyer PJ & Phillips TJ (2001) "NMDA antagonism during chronic ethanol treatment." Poster presented at Society for Neuroscience Oregon Chapter Meeting, Troutdale, OR: May 17-18, 2001.

Meyer PJ & Phillips TJ (2000) "Excitotoxic lesions of the central nucleus of the amygdala in selectively bred FAST mice." Poster presented the NIDA/NIAAA Training Program Retreat, Portland, OR: November 18, 2000.

Meyer PJ, Rindal KE, & Cunningham CL (2000) "Ethanol pretreatment reduces conditioned place aversion in DBA/2J mice." Poster presented at the 23rd Annual Research Society on Alcoholism Conference, Denver, CO: June 23-28, 2000.

Meyer PJ, Rindal KE, & Cunningham CL (2000) "Ethanol pretreatment reduces conditioned place aversion in DBA/2J mice." Poster presented at the 17th Annual Student Research Forum, Oregon Health & Science University: May 4-5, 2000.

King AC & **Meyer PJ**. (1999) "Craving and smoking response in high- and low baseline cravers: Effects of naltrexone preadministration" Poster presented at the Society for Research on Nicotine and Tobacco Conference, San Diego, CA.

Outreach

Host and Moderator, 2006 High School Brain Bowl, Portland OR, 2006.
Host and Moderator, 2004 High School Brain Bowl, Portland OR, 2004.
Exhibitor, Brain Awareness Week, Oregon Museum of Science and Industry, Portland, OR: 2003.
Co-chair, Kids Judge! recruitment committee, Portland, OR, 2003.
Exhibitor, Brain Awareness Week, Oregon Museum of Science and Industry, Portland, OR: 2002.
Presenter, "Kid-Tested and Approved: Demonstrations of Nerve Cell Fundamentals." Workshop Presented at the presented at the 32nd Annual Society for Neuroscience Meeting, Orlando, FL: November 2-7, 2002.
Exhibitor, Brain Awareness Week, Oregon Museum of Science and Industry, Portland, OR: 2002.
Exhibitor, Kids Judge! Neuroscience, Oregon Museum of Science and Industry, Portland, OR: 2002.
Volunteer, Brain Awareness Week, Oregon Museum of Science and Industry, Portland, OR: 2001.

Classroom Assistant, University of Michigan Project Outreach: August 1995 to December 1995.

Other Professional Activities

Grant reviewer for the Marsden Fund (2014)
President, Buffalo chapter for the Society for Neuroscience (2014, 2015)
Manuscript reviewer for Pharmacology, Biochemistry, and Behavior; PLOS One; Behavioral Neuroscience; Behavioural Brain Research; Physiology and Behavior; Behavioral Genetics; Neuropharmacology; Psychopharmacology; Progress in Neuro-Psychopharmacology & Biological Psychiatry; Neuroscience Letters; and the Journal of Visualized Experiments
Member, Society for Neuroscience (SFN), International Behavioral Neuroscience Society (IBNS), Research Society on Alcoholism (RSA), and International Behavioral and Neural Genetic Society (IBANGS)
Previous Member, American Psychological Association (APA), Association for Behavioral Analyses (ABA), International Narcotics Research Conference (INRC)
UB Department of Psychology: Policy and Planning Committee (Fall 2015 – present), Graduate Studies Committee (Fall 2012 - present); Grievance Committee (Fall 2012 - 2015); Rice Award Committee (2014); Behavioral Neuroscience New Faculty Search Committee (2014); Behavioral Neuroscience Curriculum Review Committee (2015); Dissertation Award Committee (2015)
Oregon Health & Science University: OHSU Annual Student Research Forum organizational committee (2000-2004), OHSU NIH Training Grant evaluation committee (2003-2004)
University of Michigan: Chair, Biopsychology Pre- and Post-graduate Space Organization Committee (PPSOC)

Professional References

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