Helen Marie Kamens

Curriculum Vitae
8/3/26

Address: 219 Biobehavioral Health Building
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EDUCATION

Ph.D. **Oregon Health & Science University**, Portland, OR. June 2002 – September 2007
Ph.D. conferred December 2007 in Behavioral Neuroscience.
Dissertation title: *Multidisciplinary approaches examining the genetic basis of drug-induced locomotor stimulation.*

B.S. **The Pennsylvania State University**, University Park, PA. June 1998 – May 2002
B.S. conferred May, 2002 in Biobehavioral Health, minor in Neuroscience
Leeds University, Leeds, United Kingdom. September 2000 – January 2001, educational exchange program.

PROFESSIONAL APPOINTMENTS

7/20 – present	**Associate Professor**, Department of Biobehavioral Health, The Pennsylvania State University
7/20 – present	**Affiliated Faculty**, The Center for Research on Tobacco and Health, The Pennsylvania State University
2/16 – present	**Affiliated Faculty**, The Penn State Cancer Institute, The Pennsylvania State University
8/15 – present	**Affiliated Faculty**, The Center for Brain, Behavior, and Cognition, The Pennsylvania State University
8/13 – present	**Affiliated Faculty**, The Huck Institutes of the Life Sciences, The Intercollege Graduate Degree Program in Neuroscience, and The Intercollege Graduate Degree Program in Molecular, Cellular and Integrative Biosciences, The Pennsylvania State University
10/14 – 7/20	**Affiliated Faculty**, The Methodology Center, The Pennsylvania State University
8/13 – 6/20	**Assistant Professor**, Department of Biobehavioral Health, The Pennsylvania State University
3/12 – 7/13	**Assistant Research Professor**, Department of Integrative Physiology, University of Colorado
1/11 – 9/11	**Adjunct Faculty**, Denver School of Nursing
9/09 – 7/13	**Research Associate**, Institute for Behavioral Genetics, University of Colorado (Adviser: Dr. Marissa A. Ehringer)
11/07 – 8/09	**Postdoctoral Fellow**, Department of Psychiatry, Yale University (Adviser: Dr. Marina R. Picciotto)
8/02 – 9/07	**Graduate Research Assistant**, Department of Behavioral Neuroscience, Oregon Health & Science University (OHSU) (Adviser: Dr. Tamara J. Phillips)
5/01 – 6/02	**Undergraduate Research Assistant**, Department of Biobehavioral Health, The Pennsylvania State University (Adviser: Dr. Laura C. Klein)
6/00 – 8/00	**Research Assistant**, National Human Genome Research Institute, National Institutes of Health (Adviser: Trish Magyari)
1/99 – 12/99	**Undergraduate Research Assistant**, Department of Human Development and Family Studies, The Pennsylvania State University (Adviser: Dr. Karen Fingerman)

GRANTS: ACTIVE, SUBMITTED & COMPLETED

Active

Title and Source: Research Funding	Period	Award Total
Seed Grant Cavigelli (PI) The Huck Institutes for the Life Sciences "Early environmental allergen exposure: effects on white matter development in the brain" Role: Co-Investigator	2026-2027	$38,742
R03 DA060335 Kamens (PI) National Institute on Drug Abuse, NIH "Neural mechanisms underlying opioid consumption" Role: Principal Investigator	2024-2026 (NCE)	$237,600

Completed

Title and Source: Research Funding	Period	Award Total
Seed Grant Arefin (PI) Social Science Research Institute/Consortium on Substance Use and Addiction "Sex-specific signatures on macroscopic structural brain connectome following chronic alcohol exposure in mice using high resolution diffusion MRI" Role: Co-Investigator	2023-2025	$20,000
Seed Grant Kamens (PI) Biobehavioral Health Department "Developing an animal model to investigate the biological mechanisms underlying human epigenome-wide association studies" Role: Principal Investigator	2023-2024	$10,000
Seed Grant Kamens (PI) Biobehavioral Health Department Strain-dependent changes in resting-state function connectivity and ethanol stimulation Role: Principal Investigator	2022-2023	$10,000
R21 CA226300 Kamens/Dierker (MPI) National Cancer Institute, NIH "The moderating role of smoking exposure in the relationship between the nicotinic acetylcholine receptor gene cluster and nicotine dependence" Role: Multiple Principal Investigator	2020-2023 (NCE)	$427,262
P50 DA039838 Collins (PI) National Institute on Drug Abuse, NIH "Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science" Role: Co-Investigator	2015-2021(NCE)	$13,493,560
Seed Grant Kamens (PI) Social Science Research Institute "The influence of adolescent social stress on morphine behaviors" Role: Principal Investigator	2018-2021	$19,931
Seed Grant Crowley (PI) Social Science Research Institute/Consortium on Substance Use and Addiction "Investigation of key opioid pathways modulated by adolescent chronic variable social stress" Role: Co-Investigator	2019-2021	$29,668

CTSA Pilot Grant Kamens (PI) 2018-2020 $56,700
Penn State – Clinical and Translational Science Institute – Pilot Award
National Center for Advancing Translational Sciences, UL1 TR002014
"The influence of adolescent social stress on opioid behaviors and gene expression"
Role: Principal Investigator

Seed Grant Kamens (PI) 2015-2018 $4,938
Social Science Research Institute
"The Impact of Nicotine Administration on Ethanol Consumption"
Role: Principal Investigator

Competitive Funding Kamens (PI) 2018 1 course release
College of Health & Human Development
Teaching Release to Support Grant Writing
Role: Principal Investigator

Seed Grant Kamens (PI) 2018 $9,870
Biobehavioral Health Department
"Changes in the prefrontal cortex transcriptome following adolescent social stress"
Role: Principal Investigator

Seed Grant Cavigelli (PI) 2018 $7,241
Biobehavioral Health Department
"Developmental asthma: How do common, chronic steroid treatments affect the developing brain?"
Role: Co-Investigator

TCORS Pilot Grant Kamens (PI) 4/1/16-3/31/18 $49,000
Penn State – Tobacco Center of Regulatory Science – Pilot Award
National Institute on Drug Abuse, P50 DA036107
"Pharmacokinetics of Spectrum research cigarettes with reduced nicotine content"
Role: Principal Investigator

Seed Grant Cavigelli (PI) 2015-2017 $5,000
College of Health & Human Development/Huck Institutes of the Life Sciences
"Hippocampal transcriptional response to chronic adolescent social stress"
Role: Co-Investigator

Seed Grant Dennis (PI) 2014-2017 $23,807
Social Science Research Institute/Center for Healthy Aging
"Behavioral, neural and genetic factors influencing motor and cognitive function in healthy older adults"
Role: Co-Investigator

KO1 AA019447 Kamens (PI) 2011-2017(NCE) $822,615
National Institute on Alcohol Abuse and Alcoholism, NIH
"Genetics of alcohol and nicotine behaviors"
Role: Principal Investigator

Seed Grant Kamens (PI) 2014-2015 $29,905
The College of Health and Human Development
"The influence of nicotinic acetylcholine receptors in adolescent alcohol behaviors"
Role: Principal Investigator

Seed Grant Klein (PI) 2013-2014 $7,200
Social Science Research Institute
"The Neurobiological Underpinnings of Nicotine Exposure on Limited Access Ethanol Consumption in Periadolescent Female C57BL/6J Mice"
Role: Co-Investigator

F31 AA015822 Kamens (PI) 2005-2007 $40,768
National Institute on Alcohol Abuse and Alcoholism, NIH
"Cholinergic modulation of ethanol-induced stimulation"
Role: Principal Investigator

Seed Grant Kamens (PI) 2004 $2,000
N.L. Tartar Research Fellowship, OHSU Foundation
"Investigating the role of cholinergic receptors in the acute locomotor response to ethanol"
Role: Principal Investigator

AWARDS/RECOGNITIONS

Faculty Marshall for the College of Health & Human Development (2025). Chosen by the student marshal (Bailey McLaughlin) for the College of Health & Human Development for Spring graduation.

The Broadhurst Career Development Professor for the Study of Health Promotion and Disease Prevention (2016 – 2019). This early career professorship provides support to a professor in the College of Health and Human Development whose research informs human health.

Faculty Marshall for the Eberly College of Science (2018). Chosen by the student marshal for the Eberly College of Science, Science major (Carley Miller) for Spring graduation.

International Behavioural and Neural Genetics Society Young Investigator Travel Award. A competitive award for travel to the annual meeting (2003, 2005, 2006, 2007, 2008, 2010, 2011, 2012, 2014, 2015, 2016).

Society for Research on Nicotine and Tobacco Young Investigator Paper Award (2011). This was a competitive award based on submitted abstracts that came with an invitation to give an oral presentation at the annual meeting and a travel award. Total award: $1000

Research Society on Alcoholism Junior Investigator Merit Award. A competitive award for travel to the annual meeting (2009).

National Institute of Mental Health Institutional Training Grant Awardee NIMH T32 MH014276 (11/2008 – 8/2009)

The Research Society on Alcoholism Enoch Gordis Research Recognition Award (2006). An award given by the Research Society on Alcoholism for an outstanding poster presented by a graduate student in the biomedical science category. Final award winners are chosen based on the presentations at the meeting. Poster presentations are judged on several criteria including quality, scientific merit, and effective oral presentation of the results. Total award: $2000

The University Club of Portland Graduate Fellowship Award (2006). A competitive fellowship from the University Club that recognizes and encourages scholarship, leadership and potential societal contributions among students pursuing graduate education. Total award: $5000

The Alliance Award (2006). An award granted by the OHSU School of Medicine Alliance in recognition of outstanding academic achievement, research accomplishments, leadership qualities and contributions to the community. Total award: $1000

International Society for Biomedical Research on Alcoholism travel award. A competitive award for travel to the annual meeting (2006).

The Society for Neuroscience Chapters/Eli Lilly Graduate Student Travel Award (2005). A competitive award for travel to the 2005 meeting. This award was based on a nomination by the Society for Neuroscience Oregon Chapter and a written application. Total award: $750

Research Society on Alcoholism Student Merit Award. A competitive award for travel to the annual meeting (2005, 2006).

Chosen as a Graduate Student Outstanding Young Investigator Awardee for the International Behavioural and Neural Genetics Society Annual Meeting (2005). This was a competitive award

based on submitted abstracts that came with an invitation to give an oral presentation at the annual meeting.

Society for Neuroscience Oregon Chapter Synapse Award (2005). A competitive award based on submitted abstracts from graduate students that came with an invitation to give an oral presentation at the annual meeting. Total award: $100

Student Research Forum Outstanding Poster Award (2004). An award given for the most outstanding poster presented at the student research forum based on ratings from a panel of faculty judges. Total award: $1000

National Institute on Alcohol Abuse and Alcoholism Institutional Training Grant Awardee NIAAA T32 AA07468 (2002 – 2005)

Phi Kappa Phi Honor Society (2002)

Intramural Research Training Award Fellowship, National Human Genome Research Institute, National Institutes of Health, Bethesda, MD (2000)

Golden Key National Honor Society (2000)

Health and Human Development Honor Society (1999)

PEER REVIEWED PUBLICATIONS (48 publications: 23 first or co-first and 11 senior authorship)

Notes: Helen Kamens is highlighted in **BOLD**
Trainees working with Dr. Kamens at the time of data collection are *italicized*
[1]Denotes undergraduate student under the supervision of Dr. Kamens.
[2]Denotes graduate student under the supervision of Dr. Kamens.
[3]Denotes postdoctoral fellow under the supervision of Dr. Kamens.
*Denotes equal contribution of authors.

Caulfield, J. I., Cover, E. M., Lipscomb, J. A., Horton, W. J., **Kamens, H. M.**, & Cavigelli, S. A. (In Press). Social instability during peri-adolescent asthma exacerbates airway inflammation but ameliorates anxiety-like behavior and prefrontal cortex expression of stress regulation genes in mice. Brain, Behavior, and Immunity, *137*, 106766. Advance online publication.

Arefin, T. M., Ünsal, H. S., Neuberger, T., Zhang, N., & **Kamens, H. M.** (2026). Dissecting the Strain and Sex Specific Connectome Signatures of Unanesthetized C57BL/6J and DBA/2J Mice Using Magnetic Resonance Imaging. Genes, Brain, and Behavior, *25*(4), e70060.

Glover, L., Lilly, A.G., Justice, A.E., Howard, A.G., Staley, B.S., Wang, Y., **Kamens, H.M.**, Ferrier, K., Bressler, J., Loehr, L., Raffield, L.M., Sims, M., North, K.E., & Fernández-Rhodes, L. (2024) DNA methylation near *MAD1L1, KDM2B*, and *SOCS3* mediates the effect of socioeconomic status on elevated body mass index in African American adults, Hum Mol Genet, 33(20):1748-1757. PMCID: 11458006

Kamens, H.M., *Anziano, E.K.*[1]**,** Horton, W.J., & Cavigelli, S.A. (2024) Chronic adolescent restraint stress downregulates miRNA-200a expression in male and female C57BL/6J and BALB/cJ mice. Genes (Basel), 15(7):873. PMCID: 11275362

Kamens, H.M., Cramer, S., *Hanley, R.N.*[1], *Chase, S.*[2], *Wickenheisser, A.*[1]**,** Horton, W.J., & Zhang, N. (2023) Neuroimaging of opioid exposure: a review of preclinical animal models to inform addiction research. Psychopharmacology (Berl), 240(12):2459-2482. PMCID: N/A

Kamens, H.M., *Flarend, G.*[1], & Horton, W.J. (2023) The role of nicotinic receptors in alcohol consumption. Pharmacol Res, 190:106705. PMCID: PMC10083870

Kamens, H.M., *Flarend, G.*[1], *Wickenheisser, A.*[1], Horton, W.J., & Cavigelli, S.A. (2023) The effect of stress on opioid use behaviors: a review of preclinical literature. Exp Clin Psychopharmacol, 31(2):523-540. PMCID: PMC10117442

Mooney-Leber, S.M., *Caruso, M.J.*[2], Cavigelli, S.A, Gould, T.J., & **Kamens, H.M.** (2022) The impact of adolescent stress on nicotine use and affective disorders in rodent models. Eur J Neurosci, 55(9-10), 2196-2215. PMCID: PMC9730548

Kamens, H.M., Miller, C.N., Caulfield, J.I., Zeid, D., Horton, W.J., *Silva, C.P.*[2], Sebastian, A., Albert, I., Gould, T.J., Fishbein, D., Grigson, P.S., & Cavigelli, S.A. (2021) Adolescent stress reduces adult morphine-induced behavioral sensitization in C57BL/6J mice. Front Behav Neurosci, 15:678102 PMCID: 8209305

Silva, C.P.[2] & **Kamens, H.M.** (2021) Cigarette smoke-induced alterations in blood: a review of research on DNA methylation and gene expression. Exp Clin Psychopharmacol, 29(1), 116-135. PMCID: 7854868

Caulfield, J.I., Ching, A.M., Cover, E.M., August, A., Craig, T., **Kamens, H.M.**, & Cavigelli, S.A. (2021) Inhaled corticosteroids as treatment for adolescent asthma: effects on adult anxiety-related outcomes in a murine model. Psychopharmacology (Berl), 238(1), 165-179.

Miller, C.N. & **Kamens, H.M.** (2020) Reduction of ethanol sensitization by α3β4 nicotinic acetylcholine receptors in DBA/2J mice. *Exp Clin Psychopharmacol*, 28(3):348-354. PMCID: 7177981

Miller, C.N. & **Kamens, H.M.** (2020) The role of acetylcholine receptors in alcohol-related behaviors. *Brain Res Bull*, 163:135-142. PMCID: 7487170

Kamens, H.M., *Silva, C.P.*[2], Nye, R.T., Miller, C.N., Singh, N., Spiko, J., Trushin, N., Sun, D., Branstetter, S.A., Muscat, J., Richie, J.P., & Foulds, J. (2020) Pharmacokinetic profile of *Spectrum* reduced nicotine cigarettes. *Nicotine Tob Res*, 22(2):273-279 PMCID: 7297107

Miller, C.N., *Ruggery, C.*[1], & **Kamens, H.M.** (2019) The α3β4 nicotinic acetylcholine receptor antagonist 18-Methoxycoronaridine decreases binge-like ethanol consumption in adult C57BL/6J mice. Alcohol, 79:1-6 PMCID: N/A

Miller, C.N.[1], *Caruso, M.J.*[3], & **Kamens, H.M.** (2019) Early-adolescent C57BL/6J and DBA/2J mice display reduced sensitivity to acute nicotine administration. Neurosci Lett, 690:151-157 PMCID: PMC6320290

Caruso, M.J.[3], *Seemiller, L.R.*[2], Fetherston, T.B., *Miller, C.N.*[1], Reiss, D.E., Cavigelli, S.A., & **Kamens, H.M.** (2018) Adolescent social stress increases anxiety-like behavior and ethanol consumption in adult male and female C57BL/6J mice. Sci Rep, 8(1):10040 PMCID: PMC6030218

Silva, C.P.[2], Horton, W.J., *Caruso, M.J.*[2], Sebastian, A., Klein, L.C., Albert, I., & **Kamens, H.M.** (2018) The influence of adolescent nicotine exposure on ethanol intake and brain gene expression. PLoS ONE, 13(6):e0198935 PMCID: PMC6005571

Caruso, M.J.[2], Reiss, D.E., Caulfield, J.I., *Thomas, J.L.*[1], *Baker, A.N.*[2], Cavigelli, S.A., & **Kamens, H.M.** (2018) Adolescent chronic variable social stress influences exploratory behavior and nicotine responses in male, but not female, BALB/cJ mice. Brain Res Bull, 138:37-49 PMCID: PMC5816715

Kamens, H.M., *Silva, C.*[2], Peck, C., & *Miller, C.N.*[1] (2018) Varenicline modulates ethanol and saccharin consumption in adolescent male and female C57BL/6J mice. Brain Res Bull, 138:20-25. PMCID: PMC5794646

Caruso, M.J.[2], Crowley, N.A., Reiss, D.E., Caulfield, J.I., Luscher, B., Cavigelli, S.A., & **Kamens, H.M.** (2018) Adolescent social stress increases anxiety-like behavior and alters synaptic transmission, without influencing nicotine responses, in a sex-dependent manner. Neuroscience, 373:182-198. PMCID: PMC5807246

Caruso, M.J.[2], **Kamens, H.M.**, & Cavigelli, S.A. (2017) Exposure to chronic variable social stress during adolescence alters affect-related behaviors and adrenocortical activity in adult male and female inbred mice. Dev Psychobiol, 59(6):679-687. PMCID: PMC5600506

Kamens, H.M., Peck, C., *Garrity, C.*[1], *Gechlik, A.*[1], *Jenkins, B.C.*[2], & *Rajan, A.*[1] (2017) α6β2 Nicotinic Acetylcholine Receptors Influence Locomotor Activity and Ethanol Consumption. Alcohol, 61:43-49. PMCID: PMC5466835

Kamens, H.M., *Silva, C.*[2], *McCarthy, R.D.*[1], *Cox, R.J.*[1], & Ehringer, M.A. (2017) No evidence of a role of the β4 subunit of the nicotinic acetylcholine receptor in alcohol-related behaviors. BMC Res Notes, 10(1):151. PMCID: PMC5382442

Melroy-Greif, W.E., Vadasz, C., **Kamens, H.M.**, McQueen, M.B., Corley, R.P., Stallings, M.C, Hopfer, C.J, Krauter, K.S., Brown, S.A., Hewitt, J.K. & Ehringer, M.A. (2016) Test for association of common variants in GRM7 with alcohol consumption. Alcohol, 55, 43-50. PMCID: PMC5123698

Kamens, H.M., Corley, R.P., Richmond, P.A., Darlington, T.M., Dowell, R., Hopfer, C.J., Stallings, M.C., Hewitt, J.K., Brown, S.A., & Ehringer, M.A. (2016) Evidence for association between low frequency variants in CHRNA6/CHRNB3 and antisocial drug dependence. Behav Genet, 46(5), 693-704. PMCID: PMC4975622

Locker, A.R., Marks, M.J., **Kamens, H.M.**, & Klein, L.C. (2016) Exposure to nicotine increases nicotinic acetylcholine receptor density in the reward pathway and binge ethanol consumption in C57BL/6J adolescent female mice. Brain Res Bull, 123, 13-22. PMCID: PMC4814345

Schwantes-An, T.-H., Zhang, J., Chen, L-S., Hartz, S.M., Culverhouse, R.C., Chen, X., Coon, H., Frank, J., **Kamens, H.M.**, Konte, B., Kovanen, L., Latvala, A., Legrand, L.N., Maher, B.S., Melroy, W.E., Nelson, E.C., Reid, M.W., Robinson, J.D., Shen, P-H., Yang, B-Z., Andrews, J.A., Aveyard, P., Beltcheva, O., Brown, S.A., Cannon, D.S., Cichon, S., Corley, R.P., Dahmen, N., Degenhardt, L., Foroud, T., Gaebel, W., Giegling, I., Glatt, S.J., Grucza, R.A., Hardin, J., Hartmann, A.M., Heath, A.C., Herms, S., Hodgkinson, C.A., Hoffmann, P., Hops, H., Huizinga, D., Ising, M., Johnson, E.O., Johnstone, E., Kaneva, R.P., Kendler, K.S., Kiefer, F., Kranzler, H.R., Krauter, K.S., Levran, O., Lucae, S., Lynskey, M.T., Maier, W., Mann, K., Martin, N.G., Mattheisen, M., Montgomery, G.W., Mössner, R., Müller-Myhsok, B., Murphy, M.T., Neale, M.C., Nikolov, M.A., Nishita, D., Nöthen, M.M., Nurnberger, J., Partonen, T., Pergadia, M.L., Reynolds, M., Ridinger, M., Rose, R.J., Rouvinen-Lagerström, N., Scherbaum, N., Schmäl, C., Soyka, M., Stallings, M.C., Steffens, M., Treutlein, J., Tsuang, M., Wall, T.L., Wodarz, N., Yuferov, V., Zill, P., Bergen, A.W., Chen., J., Cinciripini, P.M., Edenberg, H.J., Ehringer, M.A., Ferrell, R.E., Gelernter, J., Goldman, D., Hewitt, J.K., Hopfer, C.J., Iacono, W.G., Kaprio, J., Kreek, M.J., Kremensky, I.M., Madden, P.A.F., McGue, M., Munafó, M.R., Philibert, R.A., Rietschel, M., Roy, A., Rujescu, D., Saarikoski, S., Swan, G.E., Todorov, A.A., Vanyukov, M.M., Weiss, R.B., Bierut, L.J., & Saccone N.L. (2016) Collaborative meta-analysis demonstrates modest association of the *OPRM1* variant rs1799971 (A118G) with risk for non-specific substance dependence. Behav Genet, 46(2), 151-169. PMCID: PMC4752855

Kamens, H.M., Miyamoto, J., Powers, M.S., *Ro, K.[1]*, *Soto, M.[1]*, *Cox, R.[1]*, Stitzel, J.A., & Ehringer, M.A. (2015) The β3 subunit of the nicotinic acetylcholine receptor: modulation of gene expression and nicotine consumption. Neuropharmacology, 99, 639-649. PMCID: PMC4655151

Melroy, W.E., Stephens, S.H., Sakai, J.T., **Kamens, H.M.**, McQueen, M.B., Corley, R.P., Stallings, M.C, Hopfer, C.J, Krauter, K.S., Brown, S.A., Hewitt, J.K. & Ehringer, M.A. (2014) Examination of genetic variation in *GABRA2* with conduct disorder and alcohol abuse and dependence in a longitudinal study. Behav Genet, 44(4), 356-367. PMCID: PMC4098655

Kamens, H.M., Corley, R.P., McQueen, M.B., Stallings, M.C., Hopfer, C.J., Crowley, T.J., Brown, S.A., Hewitt, J.K. & Ehringer, M.A. (2013) Nominal association with *CHRNA4* variants and nicotine dependence. Genes Brain Behav, 12(3), 297-304. PMCID: PMC3727281

***Kamens, H.M.**, *****Hoft, N.R., *Cox, R.J.[1]*, Miyamoto, J.H., & Ehringer, M.A. (2012) The *Chrna6* gene influences the sedative-hypnotic effects of alcohol. Alcohol, 46, 463-471. PMCID: PMC3403529

Howrigan, D.P., Simonson, M.A., **Kamens, H.M.**, Stephens, S.H., Wills, A.G., Ehringer, M.A., Keller, M.C., & McQueen, M.B. (2011) Mutational load analysis of unrelated individuals. BMC proceedings, 5(Supp 9), S55. PMCID: PMC3287893

Kamens, H.M., *Andersen, J.[1]*, & Picciotto, M.R. (2010) The nicotinic acetylcholine receptor partial agonist varenicline increases the ataxic and sedative-hypnotic effects of ethanol in C57BL/6J mice. Alcohol Clin Exp Res, 34(12), 2053-2060. PMCID: PMC2988947

Pastor, R., **Kamens, H.M.**, McKinnon, C.S., Ford, M.M., & Phillips, T.J. (2010) Repeated ethanol administration modifies the temporal structure of sucrose intake patterns in mice: effects associated with behavioral sensitization. Addict Biol, 15(3), 324-335. PMCID: PMC2904994

Kamens, H.M., *Andersen, J.[1]*, & Picciotto, M.R. (2010) Modulation of ethanol consumption by genetic and pharmacological manipulation of nicotinic acetylcholine receptors in mice. Psychopharmacology (Berl), 208(4), 613-626. PMCID: PMC2901400

Picciotto, M.R., Brabant, C., Einstein, E.B., **Kamens, H.M.**, & Neugebauer, N.M. (2010) Effects of galanin on monoamine systems and HPA axis: Potential mechanisms underlying the effects of galanin on addiction- and stress-related behaviors. Brain Res, 1314, 206-218. PMCID: PMC2819596

Kamens, H.M., McKinnon, C.S., Li, N., Helms, M.L., Belknap, J.K., & Phillips, T.J. (2009) The α3 subunit of the nicotinic acetylcholine receptor is a candidate gene for ethanol stimulation. Genes Brain Behav, 8(6), 600-609. Corrigendum in Genes Brain Behav, 8(6), 610. PMCID: PMC2888607

*Narasimhaiah, R, ***Kamens, H.M.,** & Picciotto, M.R. (2009) Effects of galanin on cocaine-mediated conditioned place preference and ERK signaling in mice. Psychopharmacology (Berl), 204(1), 95-102. PMC2872184

*Phillips, T.J., ***Kamens, H.M.,** & Wheeler, J.M. (2008) Behavioral genetic contributions to the study of abuse-related amphetamine effects. Neurosci Biobehav Rev, 32(4), 707-59. PMCID: PMC2360482

Kamens, H.M., & Phillips, T.J. (2008) A role for neuronal nicotinic acetylcholine receptors in ethanol-induced stimulation, but not cocaine- or methamphetamine-induced stimulation. Psychopharmacology (Berl), 196(3), 377-87.

Kliethermes, C.L., **Kamens, H.M.**, & Crabbe, J.C. (2007) Drug reward and intake in lines of mice selectively bred for divergent exploration of a hole-board apparatus. Genes Brain Behav, 6(7), 608-618.

Kamens, H.M., & Crabbe, J.C. (2007) The parallel rod floor test: a measure of ataxia in mice. Nature Protocols, 2(2), 277-281.

Kamens, H.M., Burkhart-Kasch, S., McKinnon, C.S., Li, N., Reed, C., & Phillips, T.J. (2006) Ethanol-related traits in mice selectively bred for differential sensitivity to methamphetamine-induced activation. Behav Neurosci, 120(6), 1356-66.

Palmer, A.A., Verbitsky, M, Suresh, R, **Kamens, H.M.**, Reed, C.L., Li, N., Burkhart-Kasch, S., McKinnon, C.S., Belknap, J.K., Gilliman, T.C., & Phillips, T.J. (2005) Gene expression differences in mice divergently selected for methamphetamine sensitivity. Mamm Genome, 16, 291-305.

Kamens, H.M., Phillips, T.J., Holstein, S.E., & Crabbe, J.C. (2005) Characterization of the parallel rod floor apparatus to test motor incoordination in mice. Genes Brain Behav, 4(4), 253-66.

Kamens, H.M., Burkhart-Kasch, S., McKinnon, C.S., Li, N., Reed, C. & Phillips, T.J. (2005) Sensitivity to psychostimulants in mice bred for high and low stimulation to methamphetamine. Genes Brain Behav, 4(2), 110-25.

Klein, L.C., Stine, M.M., Vandenbergh, D.J., Whetzel, C.A., & **Kamens, H.M.** (2004) Sex differences in voluntary oral nicotine consumption by adolescent mice: a dose-response experiment. Pharmacol Biochem Behav, 78(1), 13-25.

BOOK CHAPTERS

Kamens, H.M., Stevens, S.H., & Ehringer, M.A. (2011) "Human Genetic Studies of CHRN genes." In H.R. Arias (Ed.), Pharmacology of AChRs from the Basic and Therapeutic Perspectives (pp. 19-44). Kerala, India: Research Signpost

PUBLISHED POSTER ABSTRACTS FROM NATIONAL AND INTERNATIONAL MEETINGS

Kamens, H.M. & Caruso, M.J. (2016) The influence of adolescent nicotine exposure on alcohol consumption and gene expression. *Alcohol Clin Exp Res.* 40(S1), 192A.

Kamens, H.M., Peck, C., & *Jenkins, B.C.*[2] (2015) The α6β2 nicotinic acetylcholine receptors influence ethanol consumption. *Alcohol Clin Exp Res.* 39(S1), 69A.

Kamens, H.M., McQueen, M.B., Corley, R.P., Stallings, M.C., Hewitt, J.K., & Ehringer, M.A. (2014) Association of *CHRNA4* polymorphisms and alcohol consumption in Hispanic subjects. *Alcohol Clin Exp Res.* 38(S1), 220A.

Kamens, H.M., *Cox, R.J.*[1], & Ehringer, M.A. (2013) The *Chrnb4* gene does not modulate ethanol consumption. *Alcohol Clin Exp Res.* 37(S2), 69A.

Ehringer, M.A., **Kamens, H.M.**, Corley, R.P., Simonson, M., Poole, A., Richmond, P., Dowell, R., Krauter, K., McQueen, M., Stallings, M., Hopfer, C., Crowley, T., & Hewitt, J. (2013) Dependence disinhibition: sequencing *CHRN* genes in a selected sample to identify novel variants. *Alcohol Clin Exp Res.* 37(S2), 256A.

Ehringer, M.A., **Kamens, H.M.,** Stephens, S.H., Flora, A.V., Gallego, X., Zambrano, C. & Stitzel, J.A. (2012) Role of CHRN genes in alcohol and tobacco co-morbidity: human and molecular genetic studies. *Alcohol Clin Exp Res.* 36(S2), 88A.

Kamens, H.M., *Cox, R.J.*[1], *McCarthy, R.D.*[1], Miyamoto, J.H., & Ehringer, M.A. (2012) The *Chrnb4* gene does not modulate ethanol behaviors. *Alcohol Clin Exp Res.* 36(S1), 178A.

Kamens, H.M., Miyamoto, J.H., Stitzel, J.A., & Ehringer, M.A. (2012) SNPs upstream of the human *CHRNB3* gene influence gene expression. *Genes Brain Behav.* 11(4), 486.

Kamens, H.M., *Cox, R.J.*[1], & Ehringer, M.A. (2011) The *Chrna6* and *Chrnb3* genes do not modulate ethanol consumption. *Alcohol Clin Exp Res.* 35(S1), 73A.

Kamens, H.M., McQueen, M.B., & Ehringer, M.A. (2010) Association of the *CHRNB2* gene and DSM-IV alcohol abuse and dependence criteria. *Genes Brain Behav.* 9(4), 434.

Scibelli, A.C., **Kamens, H.M.**, & Phillips, T.J. (2009) FAST mice have greater expression of the muscarinic acetylcholine subtype 5, but not subtype 4, receptor gene compared to SLOW mice. *Alcohol Clin Exp Res.* 33(S1), 208A.

Phillips, T.J., **Kamens, H.M.**, Wheeler, J.M., & Reed C. (2009) Evidence for common genetic influences on the effects of alcohol and other addictive drugs. *Alcohol Clin Exp Res.* 33(S1), 279A.

Klein, L.C., Kapelewski, C.H., Whetzel, M.M., Stine, M.M., & **Kamens, H.M.** (2007) Sex and age determine cumulative lifetime nicotine exposure in adolescent and adult mice. *Society for Neuroscience Abstract Viewer & Itinerary Planner.* Abstract 843.14

Pastor, R.**, Kamens, H.M.**, Ford, M.M., & Phillips, T.J. (2007) Repeated ethanol administration modifies sucrose intake patterns in WSC-1 mice: effects associated with behavioral sensitization. *Alcohol Clin Exp Res.* 31(S2), 90A.

Kamens, H.M. & Phillips, T.J. (2006) The role of nicotinic acetylcholine receptors in ethanol-induced stimulation in FAST-1 and FAST-2 mice. *Alcohol Clin Exp Res.* 30(S2), 131A.

Kamens, H.M., Burkhart-Kasch, S., Shirley, R.L., Buck, K.J., Belknap, J.K., & Kamens, T.J. (2006) Confirmation and an attempt at fine mapping of an ethanol consumption QTL on mouse chromosome 9. *Alcohol Clin Exp Res.* 30(6S1), 221A.

Bergeson, S.E., Mulligan, M.K., **Kamens, H.M.**, & Phillips, T.J. (2006) Transcriptome analysis of congenic mice identifies candidate genes for alcohol preference QTL. *Alcohol Clin Exp Res.* 30(6S1), 236A.

Palmer, A.A., Veenstra-Vanderweele, J., Verbitsky, M., Suresh, R., Qaadir, A., **Kamens, H.M.,** Belknap, J.K., Gilliam, T.C, Cook, E.H., Phillips, T.J & De Wit, H. (2005) Casein Kinase 1 Epsilon modulates sensitivity to stimulant drugs in both mice and humans: a translational genetic study. *Neuropsychopharmacology.* 30(S1), S211.

Kamens, H.M., Li, N., & Phillips, T.J. (2005) Statistical fine mapping of a quantitative trait locus for acute ethanol-induced stimulation using congenic F2 mice. *Society for Neuroscience Abstract Viewer & Itinerary Planner*. Abstract 919.9

Kamens, H.M. & Phillips, T.J. (2005) The role of nicotinic acetylcholine receptors in drug-induced locomotor stimulation. *Alcohol Clin Exp Res.* 29(5S), 146A.

Kamens, H.M. & Phillips, T.J. (2004) The role of nicotinic acetylcholine receptors in the acute locomotor response to ethanol. *Society for Neuroscience Abstract Viewer & Itinerary Planner.* Abstract 117.14

Kamens, H.M., Li, N., Burkhart-Kasch, S., McKinnon, C.S., & Phillips, T.J. (2003) Cocaine responses in mice selectively bred for high and low acute locomotor response to methamphetamine. *Society for Neuroscience Abstract Viewer & Itinerary Planner*. Abstract 643.9

NON-PUBLISHED POSTER ABSTRACTS FROM NATIONAL AND INTERNATIONAL MEETINGS

Marrero, M.C., Wnuk, H., **Kamens, H.M.,** Wnag, K.H., & Cavigelli, S.A. Sex shapes the neurobiological consequences of chronic alcohol use: structural, cellular, and functional changes across the Hippobellum network. Presented at the annual meeting of The Society for Neuroscience, November 2025, San Diego, California

Velu, S, Husak, H., Horton, W.J., **Kamens, H.M.** & Cavigelli, S.A. Brain gene expression as a possible mechanism underlying the relationship between allergic asthma and behavioral and biological outcomes in a mouse model. Presented at the annual meeting of The Society for Neuroscience, November 2025, San Diego, California

McLaughlin, B.A.[1], Cavigelli, S.A.& **Kamens, H.M.** Chronic adolescent restraint stress increases alcohol consumption in BALB/cJ and C57BL/6J mice. Presented at the annual meeting of The International Behavioral Neuroscience Society, June 2025, Tromso, Norway

Arefin, T.M., Ünsal, H.S., Neuberger, T., Zhang, N., **Kamens, H.M.** Dissecting the strain and sex specific connectome signatures of unanesthetized C57BL/6J and DBA/2J mice using MRI. Presented at the annual meeting of the International Society for Magnetic Resonance in Medicine, May 2025, Honolulu, Hawaii

Kamens, H.M., *Anziano, E.K.*[1], Horton, W.J., & Cavigelli, S.A. Chronic adolescent restraint stress downregulates miRNA-200a expression. Presented at the 24th annual meeting of The International Behavioural and Neural Genetics Society, June 2024, London, Canada

Silva, C.[2] & **Kamens, H.M.** Genomic responses in whole-blood following smoking a high, medium or low nicotine-content spectrum cigarette. Presented at the 26th annual meeting of the Society for Research on Nicotine and Tobacco, March 2020, New Orleans, LA.

Caulfield, J.I., **Kamens, H.M.**, & Cavigelli, S.A. The impact of developmental chronic variable social stress and asthma on anxiety-like brain gene expression, anxiety-like behavior, and stress response. Presented at the annual meeting for the Society for Neuroscience, October 2019, Chicago, IL.

Cavigelli, S.A., Caulfield, J.I., Ching, A.M., Studer, S.C., Craig, T., **Kamens, H.M.**, & August, A. Chronic inhaled corticosteroids during development minimize allergic asthma symptoms but exacerbate comorbid anxiety symptoms. Presented at the Psychoneuroimmunology Research Society joint with the German-Endocrine-Brain-Immune-Network, June 2019, Berlin, Germany and the annual meeting for the Society for Neuroscience, October 2019, Chicago, IL.

Kamens, H.M., Miller, C.N., Horton, W.J., Caruso, M.J., & Cavigelli, S.A. Adolescent social stress influences morphine sensitization and gene expression. Presented at the 21th annual meeting of The International Behavioural and Neural Genetics Society, May 2019, Edinburgh, Scotland.

Kamens, H.M., Peck, C., & *Gechlik, A*[1]. Nicotinic acetylcholine receptors influence ethanol behaviors in an age specific manner. Presented at the 18th annual meeting of The International Behavioural and Neural Genetics Society, May 2016, Bar Harbor, ME.

Silva, S.P.[2], Caruso, M.J., Horton, W.J., & **Kamens, H.M.** The effect of nicotine exposure on ethanol consumption and gene expression: a WGCNA analysis. Presented at the 18th annual meeting of The International Behavioural and Neural Genetics Society, May 2016, Bar Harbor, ME.

Caruso, M.J., **Kamens, H.M.**, Horton, W.J., Bourne, R.A., August, A., Klein, L.C., Bonneau, R.H., Craig, T., & Cavigelli, S.A. Hippocampal gene networks associated with anxiety- and depression-like behavior caused by adolescent asthma symptoms. Presented at the Neurobiology of Stress Workshop, April 2016, Irvine, CA.

Kamens, H.M. The influence of adolescent nicotine exposure on alcohol consumption and gene expression. Presented at the 17th annual meeting of The International Behavioural and Neural Genetics Society, May 2015, Uppsala, Sweden.

Jenkins, B.C.[2], Klein, L.C., **& Kamens, H.M.** The influence of nicotine on alcohol consumption in adolescent C57BL/6J mice. Presented at the 21th annual meeting of the Society for Research on Nicotine and Tobacco, February 2015, Philadelphia, PA.

Kamens, H.M., Miyamoto, J.H., Stitzel, J.A, & Ehringer, M.A. Genetic variation upstream of *CHRNB3* influences gene expression. Presented at the 19th annual meeting of the Society for Research on Nicotine and Tobacco, March 2013, Boston, MA.

Kamens, H.M., Poole, A, Corley, R.P., McQueen, M.B., Stallings, M.C., Hopfer, C., Stitzel, J., Hewitt, J.K., Dowell, R.D., & Ehringer, M.A. Sequencing nicotinic acetylcholine receptor subunits for association with dependence vulnerability. Presented at the 18th annual meeting of the Society for Research on Nicotine and Tobacco, March 2012, Houston, TX.

Ehringer M.A., Stitzel J.A., Flora A.V., Gallego, X., **Kamens, H.M.,** & Zambrano C. Which SNPs are functional? Molecular studies of SNPs in human *CHRN* genes associated with drug behaviors. Presented at the Nicotinic Acetylcholine Receptors meeting, May 2011, Cambridge, UK.

Hoft, N.R., **Kamens, H.M.**, Miyamoto, J.H., & Ehringer, M.A. The role of *Chrna6* and *Chrnb3* genes in alcohol behaviors using mouse models. Presentation at the 60th annual meeting of The American Society of Human Genetics, November 2010, Washington DC.

McKinnon, C.S., **Kamens, H.M.**, & Phillips, T.J. A common quantitative trait locus for sensitivity to the locomotor stimulant effects of drugs with multiple initial mechanisms of action. Presented at the 10th annual meeting of The International Behavioural and Neural Genetics Society, May 2008, Portland, OR.

Holstein, S.E., **Kamens, H.M.**, Li, N., Eshleman, A.J., & Phillips, T.J. Evaluating the role of $GABA_B$ receptors in ethanol sensitivity. Presented at the 10th annual meeting of The International Behavioural and Neural Genetics Society, May 2008, Portland, OR.

Kamens, H.M., Li, N., Eshleman, A.J., & Phillips, T.J. Evaluation of the alpha 3 subunit of the nicotinic acetylcholine receptor as a candidate gene for ethanol-induced locomotor activity. Presented at the

9th annual meeting of The International Behavioural and Neural Genetics Society, May 2007, Doorwerth, The Netherlands.

Kamens, H.M., Li, N., McKinnon, C.S., & Phillips, T.J. Evidence for a common quantitative trait locus on chromosome 9 for acute cocaine-, ethanol-, and methamphetamine-induced stimulation. Presented at the 8th annual meeting of The International Behavioural and Neural Genetics Society, May 2006, Vancouver, British Columbia, Canada.

Palmer, A.A., Verbitsky, M., Suresh, R., **Kamens, H.M.**, Reed, C.L., Li, N., Burkhart-Kasch, S., McKinnon, C.S., Belknap, J.K., Gillman, T.C., & Phillips, T.J. Short-term selection identifies a cis-acting expression QTL for casein kinase 1 epsilon (*Csnk1e*) that may influence sensitivity to methamphetamine. Presented at the 3rd annual meeting of the Complex Trait Consortium, June 2004, Bar Harbor, ME.

Kamens, H.M., Li, N., Burkhart-Kasch, S., McKinnon, C.S., & Phillips, T.J. Cocaine responses in mice selectively bred for high and low acute locomotor response to methamphetamine. Presented at the 21st annual Student Research Forum, May 2004, Portland, OR.

Ceballos, R.M., Stine, M.M., **Kamens, H.M.**, Whetzel, C., DeNucci, C., Bonner, J., & Klein, L.C. Forced and voluntary oral nicotine consumption do not influence body weight gain in adolescent mice. Presented at the 10th annual meeting of the Society for Research on Nicotine and Tobacco, February 2004, Scottsdale, AZ.

Kamens, H.M., Phillips, T.J., Wahlsten, D., & Crabbe, J.C. Characterization of a procedure to assess ethanol-induced ataxia. Presented at the 6th annual meeting of The International Behavioural and Neural Genetics Society, November 2003, New Orleans, LA.

Klein, L.C., Ceballos, R.M., Stine, M.M., Vandenbergh, D.J., **Kamens, H.M**, & Ellis, C. Choice oral nicotine consumption decreases body weight in adult but not adolescent C57BL/6J mice. Presented at the 9th annual meeting of the Society for Research on Nicotine and Tobacco, February 2003, New Orleans, LA.

UNDERGRADUATE STUDENT POSTER PRESENTATIONS

McLaughlin, B.[1] & **Kamens, H.M.** Adolescent stress effects on binge-like alcohol consumption in rodents. Presented at the Biobehavioral Founders Day Poster Session and the Pennsylvania State University Undergraduate Exhibition, April 2025, University Park, PA. **Ms. McLaughlin tied for 1st place at the Founder Day Undergraduate Research Competition for this poster.**

Foster, L.N.[1] & **Kamens, H.M.** Adolescent stress effects on SOCS3 gene expression in C57BL/6J mice. Presented at the Biobehavioral Founders Day Poster Session and the Pennsylvania State University Undergraduate Exhibition, April 2025, University Park, PA.

Gulati, A.[1], Hinnen, A.[1], Sharma, R.[1], & **Kamens, H.M.** Sex differences in oral morphine consumption in C57BL/6J mice. Presented at the Biobehavioral Founders Day Poster Session, April 2025, University Park, PA. **Ms. Gulati, Hinnen and Sharma tied for 2nd place at the Founder Day Undergraduate Research Competition for this poster.**

McLaughlin, B.[1] & **Kamens, H.M.** Adolescent stress effects on binge-like alcohol consumption in rodents – preliminary results. Presented at the Biobehavioral Founders Day Poster Session and the Pennsylvania State University Undergraduate Exhibition, April 2024, University Park, PA.

Flarend, G.[1], Horton, W.J., & **Kamens, H.M.** The role of nicotinic receptors in alcohol consumption. Presented at the Biobehavioral Founders Day Poster Session and the Pennsylvania State University Undergraduate Exhibition, April 2023, University Park, PA.

McLaughlin, B.[1], Chase, S.O.[2], Foster, L.N.[1], & **Kamens, H.M.** Review of adolescent stress effect on ethanol consumption in rodents. Presented at the Biobehavioral Founders Day Poster Session and the Pennsylvania State University Undergraduate Exhibition, April 2023, University Park, PA.

Flarend, G.[1] & **Kamens, H.M.** Effects of stress on opioid use behaviors: a narrative review. Presented at the Pennsylvania State University Undergraduate Exhibition, March 2022, University Park, PA. **Ms. Flarend received 1st place for The John Sr. and Kimlyn Patishnock Undergraduate Research Award: Excellence in Information Literacy for this poster presented at the Undergraduate Exhibition.**

Wickenheisser, A.[1] & **Kamens, H.M.** Opioid-induced changes in brain activity in rodents. Presented at the Biobehavioral Health Research Forum, March 2022, University Park, PA. **Ms. Wickenheisser was awarded 3rd place at the Biobehavioral Health Research Forum for this poster.**

Flarend, G.[1] & **Kamens, H.M.** Effects of stress on opioid use behaviors: a narrative review. Presented at the Biobehavioral Health Research Forum, March 2021, University Park, PA. **Ms. Flarend was awarded 2nd place at the Biobehavioral Health Research Forum for this poster.**

Peat, A.J.[1] & **Kamens, H.M.** Adolescent social stress alters morphine behaviors in C57BL/6J, but not BALB/cJ mice. Presented at the Biobehavioral Health Research Forum and the Pennsylvania State University Undergraduate Exhibition, March 2021, University Park, PA.

Wickenheisser, A.[1] & **Kamens, H.M.** No association between carrying the dopamine transporter (DAT) 9 allele and alcohol consumption. Presented at the Biobehavioral Health Research Forum and the Pennsylvania State University Undergraduate Exhibition, March 2021, University Park, PA. **Ms. Wickenheisser received an honorable mention for The John Sr. and Kimlyn Patishnock Undergraduate Research Award: Excellence in Information Literacy for this poster presented at the Undergraduate Exhibition.**

Wickenheisser, A.[1] & **Kamens, H.M.** The effects of adolescent social stress and genetic background on morphine consumption in C57BL/6J and BALB/cJ mice. Presented at the WISER/MURE/FURP Research Exhibition, November 2019, University Park, PA.

Peat, A.J.[1], Miller, C.N., & **Kamens, H.M.** Adolescent social stress and genetic background alter morphine sensitization in C57BL/6J and BALB/cJ mice. Presented at the Biobehavioral Health Research Forum and the Pennsylvania State University Undergraduate Research Exhibition, April 2019, University Park, PA. **Mr. Peat was awarded 1st place in the Social and Behavioral Sciences category at the Penn State Undergraduate Research Exhibition for this poster.**

Ruggery, C.[1], Miller, C.N., & **Kamens, H.M.** The α3β4 nicotinic acetylcholine receptor antagonist 18-Methoxycoronaridine decreases binge-like ethanol consumption in adult C57BL/6J mice. Presented at the Biobehavioral Health Research Forum and the Pennsylvania State University Undergraduate Research Exhibition, April 2019, University Park, PA. **Mr. Ruggery was awarded 2nd place at the Biobehavioral Health Research Forum for this poster.**

Swisher, G.[1], Miller, C.N., *Phung, L-N.*[2], & **Kamens, H.M.** The effect of adolescent social stress and genetic background on morphine consumption in C57BL/6J and BALB/cJ mice. Presented at the Biobehavioral Health Research Forum and the Pennsylvania State University Undergraduate Research Exhibition, April 2019, University Park, PA.

Miller, C.N.[1], *Caruso, M.J.*[3], & **Kamens, H.M.** Age and genetic background influence initial nicotine sensitivity in C57BL/6J and DBA/2J mice. Presented at the Pennsylvania State University Undergraduate Research Exhibition, April 2018, University Park, PA.

Miller, C.N.[1], *Silva, C.*[2], Peck, C., & **Kamens, H.M.** The nicotinic acetylcholine receptor partial agonist varenicline alters ethanol consumption and adolescent C57BL/6J mice. Presented at the Pennsylvania State University Undergraduate Research Exhibition, April 2017, University Park, PA. **Ms. Miller was awarded 3rd place in the Life Sciences category at the Penn State Undergraduate Research Exhibition for this poster.**

Thomas, J.[1] & **Kamens, H.M.** Chronic Variable Social Stress during Adolescence: Examining Affect-related Behavior and Alcohol Consumption. Presented at the Pennsylvania State University Undergraduate Research Exhibition, April 2017, University Park, PA.

CHAIRED SYMPOSIA

Approaching the genetics of alcoholism across different model organisms. Presented at the 10th annual meeting of The International Behavioural and Neural Genetics Society, May 2008, Portland, OR.

TALKS AT SCIENTIFIC MEETINGS

International

Arefin, T. M., Ünsal, H. S., Neuberger, T., Zhang, N., & **Kamens, H. M.** (2026). Dissecting the Strain and Sex Specific Connectome Signatures of Unanesthetized C57BL/6J and DBA/2J Mice Using Magnetic Resonance Imaging. Presented at the 27th annual meeting of The International Behavioural and Neural Genetics Society, June 2026, Pittsburgh, Pennsylvania.

Silva, C.P.[2], Linden-Carmichael, A., Dziak, J., & **Kamens, H.M.** Age-varying associations between cigarette smoking initiation and cannabis use among Chilean adolescents. Presented at the 27th annual meeting of the Society for Research on Nicotine and Tobacco, March 2021, On-line. *Presented by Constanza Silva.

Kamens, H.M., Dziak, J., Deutsch, A.R., & Li, R. The effect of varenicline on ethanol consumption and striatal gene expression using classical analytical tools and high-dimensional mediation analysis. Presented at the 19th annual meeting of The International Behavioural and Neural Genetics Society, May 2017, Madrid, Spain.

Kamens, H.M., Corley, R.P., Richmond, P.A., McQueen, M.B., Stallings, M.C., Hopfer, C., Stitzel, J.A., Brown, S.A., Hewitt, J.K., Dowell, R.D., & Ehringer, M.A. Rare variants in the *CHRNA6*/*CHRNB3* gene region are associated with dependence vulnerability. Presented at the 16th annual meeting of The International Behavioural and Neural Genetics Society, May 2014, Chicago, Illinois.

Kamens, H.M., Phillips, T.J., Picciotto, M.R., & Ehringer, M.A. Nicotinic acetylcholine receptors influence ethanol behaviors. Presented at the 40th annual meeting of US-Korea Summit on Science and Engineering, August 2011, Park City, Utah.

Kamens, H.M., Corley, R.P., Hoft, N.R., McQueen, M.B., Stallings, M.C., Brown, S.A., Crowley, T.J., Hopfer, C.J., Hewitt, J.K., & Ehringer, M.A. The role of *CHRNA4* and *CHRNB2* in alcohol and nicotine behaviors. Presented at the 13th annual meeting of The International Behavioural and Neural Genetics Society, May 2011, Rome, Italy. [abstract published *Genes Brain Behav.* 10(4), 480]

Kamens, H.M., McQueen, M.B., Corley, R.P., Stallings, M.C., Hewitt, J.K., & Ehringer, M.A. Association of the *CHRNB2* gene and DSM-IV nicotine dependence symptoms. Presented at the 17th annual meeting of the Society for Research on Nicotine and Tobacco, February 2011, Toronto, Canada.

Kamens, H.M., Burkhart-Kasch, S., Helms, M.L., Belknap, J.K., & Phillips, T.J. The chromosome 9 quantitative trait locus for ethanol consumption: evidence for polygenic influence within this region. Presented at the 10th annual meeting of The International Behavioural and Neural Genetics Society, May 2008, Portland, OR.

Kamens, H.M., Burkhart-Kasch, S., McKinnon, C.S., Li, N., Reed, C., & Phillips, T.J. Mice selectively bred for high and low acute locomotor response to methamphetamine do not differ in ethanol-induced stimulation, sensitization or metabolism. Presented at the 7th annual meeting of The International Behavioural and Neural Genetics Society, June 2005, Sitges, Spain.

National

Kamens, H.M. Adolescent social stress influences ethanol consumption and gene expression. Presented at the 42th annual meeting of The Research Society on Alcoholism, June 2019, Minneapolis, MN. [abstract published *Alcohol Clin Exp Res.* 43(S1), 327A]

Kamens, H.M., Caruso, M.J., & Cavigelli, S.A. Adolescent social stress influences later ethanol and nicotine behaviors and microRNA expression. Presented at the 25th annual meeting of the Society for Research on Nicotine and Tobacco, February 2019, San Francisco, CA.

Kamens, H.M., Miyamoto, J.H., Stitzel, J.A, & Ehringer, M.A. Genetic variation upstream of *CHRNB3* influences gene expression. Presented at the 19th annual meeting of the Society for Research on Nicotine and Tobacco, March 2013, Boston, MA.

Kamens, H.M., *Andersen, J.*[1], & Picciotto, M.R. The α7 nicotinic acetylcholine receptor influences ethanol consumption. Presented at the 32th annual meeting of The Research Society on Alcoholism, June 2009, San Diego, CA. [abstract published *Alcohol Clin Exp Res.* 33(S1), 304A]

Local

Kamens, H.M., Miller, C.N., Caulfield, J.I., Zeid, D., Horton, W.J., Silva, C., Sebastian, A., Albert, I., Gould, T.J., Fishbein, D., Grigson, P.S., & Cavigelli, S.A. Adolescent social stress dampen morphine-induced behavioral sensitization in C57BL/6J mice. Presented virtually at the 6th annual Addiction Symposium, December 2020, Hershey, PA.

Kamens, H. M., Corley, R. P., Richmond, P. A., Darlington, T. M., Dowell, R., Hopfer, C. J., Stallings, M. C., Hewitt, J. K., Brown, S. A., & Ehringer, M. A. Rare variants in *CHRNA6*/*CHRNB3* are associated

with antisocial drug dependence. Presented at the 2nd annual Addiction Symposium, April 2016, Hershey, PA.

Kamens, H.M., Miyamoto, J., Stitzel, J.A., & Ehringer, M.A. The β3 subunit of the nicotinic acetylcholine receptor: modulation of gene expression and nicotine consumption. Presented at the 1st annual Addiction Symposium, January 2015, Hershey, PA.

Kamens, H.M., Li, N., & Phillips, T.J. Statistical fine mapping of a quantitative trait locus for acute ethanol-induced stimulation using congenic F2 mice. Presented at the 5th annual meeting of the Society for Neuroscience Oregon Chapter, April 2005, Salishan, OR.

INTIVED PRESENTATIONS AND WORKSHOPS

National

Kamens, H.M. Evidence of gene X environmental interactions influencing drug traits. Presented at The University Buffalo, February 2021, Buffalo, NY. Host: Dr. Paul J. Meyer

Kamens, H.M. Nicotinic acetylcholine receptors influence nicotine and alcohol behaviors. Presented at Auburn University Center for Neuroscience, September 2019, Auburn, AL. Host: Dr. Kristina A. Neely

Kamens, H.M. Nicotinic acetylcholine receptors influence nicotine and alcohol behaviors. Presented at The Pennsylvania State University, March 2012, University Park, PA. Host: Dr. David J. Vandenbergh.

Kamens, H.M. The involvement of nicotinic acetylcholine receptors in ethanol stimulation and consumption. Presented at The University of Colorado, January 2009, Boulder, CO. Host: Dr. Marissa A. Ehringer.

Kamens, H.M. The involvement of nicotinic acetylcholine receptors in ethanol stimulation and consumption. Presented at The Pennsylvania State University, September 2008, State College, PA. Host: Dr. Michele M. Stine.

Kamens, H.M. Mapping quantitative trait loci for the acute locomotor response to drugs of abuse. Presented at Yale University, November 2006, New Haven, CT. Host: Dr. Marina R. Picciotto

Kamens, H.M. Mapping quantitative trait loci for the acute locomotor response to drugs of abuse. Presented at the National Institute on Alcohol Abuse and Alcoholism, October 2006, Rockville, MD. Host: Dr. Andrew Holmes

Local

Kamens, H.M. Incorporating genetic data in behavioral studies. The Taste of Methodology Workshop, May 2019, University Park, PA.

Kamens, H. M. Investigating the role of nicotinic acetylcholine receptors in alcohol and nicotine behaviors. Presented at the Center for Brain, Behavior, and Cognition Seminar Series, Penn State University, December 2015, University Park, PA.

Kamens, H. M. Investigating the role of nicotinic acetylcholine receptors in alcohol and nicotine behaviors. Presented at the Noll Lecture Series, Penn State University, October 2015, University Park, PA.

Kamens, H. M. Investigating the role of nicotinic acetylcholine receptors in alcohol and nicotine behaviors. Presented at the Biobehavioral Health Colloquium Series, Penn State University, September 2014, University Park, PA.

Kamens, H. M. Nicotinic acetylcholine receptors influence nicotine and alcohol behaviors. Presented at Molecular and Cellular Integrative Biosciences Research Talks, Penn State University, August 2014, University Park, PA.

Kamens, H. M. Nicotinic acetylcholine receptors influence nicotine and alcohol behaviors. Presented at The Methodology Center Brown Bag Seminar Series, Penn State University, March 2014, University Park, PA.

LEADERSHIP AND PROFESSIONAL SERVICE

Department of Biobehavioral Health

2025 – present Adviser Lead Honors Adviser for Systems Neuroscience

2023 – present	Adviser	Lead Honors Adviser for Biobehavioral Health • Spring 2026, honors adviser for 2 graduates • Fall 2025, honors adviser for 1 graduate • Spring 2025, honors adviser for 2 graduates • Spring 2024, honors adviser for 2 graduates
2023 – present	Member	Biobehavioral Health – Undergraduate Program Committee
2026	Member	Biobehavioral Health – 451 Curricular Committee
2025	Member	Biobehavioral Health – 501/503 Curricular Committee
2024	Member	Biobehavioral Health – 310 Curricular Committee
2024	Member	Biobehavioral Health – Summer Curricular Committee
2024	Member	Biobehavioral Health – Biomarker Core Lab Research Staff Search Committee
2023 – 2024	Chair	Biobehavioral Health – Genetics/Epigenetics and Cancer Faculty Search Committee
2018 – 2022	Adviser	Honors Adviser for Biobehavioral Health • Spring 2022, honors adviser for 9 graduates • Spring 2022, Co-lead on BBH Research Forum • Fall 2021, honors adviser for 2 graduates • Summer 2021, honors adviser for 1 graduate • Spring 2021, honors adviser for 8 graduates • Spring 2021, Co-lead on BBH Research Forum • Spring 2020, honors adviser for 5 graduates • Fall 2019, honors adviser for 2 graduates • Summer 2019, honors adviser for 1 graduate • Spring 2019, honors adviser for 11 graduates • Spring 2019, Co-lead on BBH Research Forum
2021 – 2022	Co-Chair	Biobehavioral Health – Research Project Manager Staff Search
2020 – 2021	Member	Biobehavioral Health – Entrance to Major Committee
2020 – 2021	Member	Biobehavioral Health – Precision Population Health Faculty Search
2019 – 2020	Member	Biobehavioral Health – Addiction Faculty Search Committee
2018 – 2019	Chair	Biobehavioral Health – Colloquium Committee
2018 – 2019	Member	Biobehavioral Health – Health Disparities and Addiction Faculty Search Committee
2017 – 2018	Co-Chair	Biobehavioral Health – Colloquium Committee
2017 – 2018	Chair	Biobehavioral Health – Website Committee
2017	Member	The Gerald E. “Jerry” McClearn Memorial Symposium at Penn State Organizing Committee
2017	Member	Biobehavioral Health – Online Instructor Search Committee
2016 – 2017	Member	Biobehavioral Health – Colloquium Committee
2014 – 2016	Chair	Biobehavioral Health – Genetics Curriculum Committee
2014 – 2015	Member	Biobehavioral Health – Graduate Program Committee
2014 – 2015	Member	Biobehavioral Health – Health Disparities Faculty Search Committee
2013 – 2014	Member	Biobehavioral Health – Graduate Admissions Committee

College of Health & Human Development

2023 – present	Member	College Honors Adviser Council
2025 – 2026	Member	College of Health and Human Development Collaborative on Academic Careers in Higher Education (COACHE) committee
2018 – 2022	Member	College Honors Adviser Council
2016 – 2017	Member	Biological and Life Sciences Interest Group, Animal Research Subcommittee
2015 – 2016	Member	Biobehavioral Health Department Head Search Committee
2014 – 2015	Member	Biological and Life Sciences Interest Group, Funding Subcommittee

2014 – 2017 Member Biological and Life Sciences Interest Group

Pennsylvania State University

2023 – present Member Institutional Animal Care and Use Committee
2026 Reviewer Erickson Discovery Grant Reviewer
2024 – 2025 Member Schreyer Honors College – Faculty Selection Committee
2023 – 2024 Member Schreyer Honors College – Faculty Advisory Committee
2021 – 2022 Member Schreyer Honors College – Faculty Advisory Committee
2021 – 2022 Member Schreyer Honors College – Faculty Selection Committee
2021 – 2022 Member Institutional Animal Care and Use Committee
2019 – 2020 Member Animal Research Program Director Search Committee
2016 – 2019 Member Animal Facilities Task Force
2014 – 2017 Member Neuroscience Admission Committee

Leadership and Service within Professional Societies

International Behavioural and Neural Genetics Society

2025 – present Chair Publications Committee
2024 – 2026 Chair Awards Committee
2023 – 2024 Member Awards Committee
2019 – 2025 Member Publications Committee
2022 – 2023 Co-Chair Program Committee
2017 Chair Nominations & Election Committee
2014 – 2017 Secretary Executive Committee
2011 – 2012 Member Local Organizing Committee
2009 – 2013 Webmaster
2009 – 2012 Member-At-LargeExecutive Committee
2006 – 2008 Member Program Committee

Society for Research on Nicotine and Tobacco

2018 – 2019 Member Program Committee

Journal Editorial Boards

Experimental and Clinical Psychopharmacology

2019 Editorial Fellow
2020 - 2024 Editorial Board

Frontiers in Behavioral Neuroscience, Motivation and Reward

2021 – 2024 Review Editor
2024 – present Associate Editor

Frontiers in Genetics, Toxicogenomics

2014 – 2021 Review Editor
2021 – present Associate Editor

Scientific Reports

2019 – 2026 Editorial Board

Genes, Brain and Behavior

2008 - 2009 Guest Associate Editor for volume 8 issue 6

Ad-Hoc Manuscript Reviews (for > 35 journals)

Addiction; Addiction Biology; Alcohol; Alcoholism: Clinical and Experimental Research; Behavioral Sciences; Behavioural Brain Research; Behavioural Processes; Biological Psychiatry; Brain and Behavior; British Journal of Pharmacology; BMC Neuroscience; CNS Neuroscience & Therapeutics;

Comprehensive Psychiatry; Experimental and Clinical Psychopharmacology; Genes, Brain and Behavior; Journal of Neurochemistry; Frontiers in Behavioral Neuroscience; Frontiers in Cell and Developmental Biology; Frontiers in Genetics; Frontiers in Pharmacology; Molecular Psychiatry; Neurobiology of Stress; Neuroscience Insights; Neuroscience Letters; Neuropharmacology; Nicotine & Tobacco Research; Pharmaceutical Biology; Pharmacological Reports; Physiology & Behavior; PLoS One; Progress in Neurobiology; Psychiatric Genetics; Psychoneuroendocrinology; The American Journal of Drug and Alcohol Abuse; The American Journal on Addictions; Scientific Reports; Translational Psychiatry

Grant Reviews

2026 National Institutes of Health, Neuropathophysiology of Addictive Substances (Special Emphasis Panel/Scientific Review Group 2026/10 ZRG1 NPE-M (81) S meeting) (*ad hoc*)

2023 European Science Foundation (*ad hoc*)

2023 Tobacco-Related Disease Research Program, University of California
Biomedical and Social Sciences Trainee Review Panel

2022 Tobacco-Related Disease Research Program, University of California
Nicotine Dependence Study Section

2020 West Virginia University, Idea Network of Biomedical Research Excellence (WV-INBRE) (*ad hoc*)

2020 Tobacco-Related Disease Research Program, University of California
Biomedical and Social Sciences Trainee Review Panel

2017 Tobacco-Related Disease Research Program, University of California
Nicotine Dependence Study Section (Fall Panel)

2017 Tobacco-Related Disease Research Program, University of California
Nicotine Dependence Study Section (Spring Panel)

2016 Social Science Research Institute, Penn State University, Ad-hoc Reviewer

2016 Tobacco-Related Disease Research Program, University of California
Nicotine Dependence Study Section

2015 Tobacco-Related Disease Research Program, University of California
Nicotine Dependence Study Section

2013 Tobacco-Related Disease Research Program, University of California
Nicotine Dependence Study Section

2013 Mid-Atlantic Nutrition Obesity Research Center, University of Maryland School of Medicine (*ad hoc*)

Abstract Reviewer

2022 Society for Research on Nicotine and Tobacco Annual Meeting

2021 Society for Research on Nicotine and Tobacco Annual Meeting

2020 Society for Research on Nicotine and Tobacco Annual Meeting

2017 Society for Research on Nicotine and Tobacco Annual Meeting

2015 Society for Research on Nicotine and Tobacco Annual Meeting

2014 Society for Research on Nicotine and Tobacco Annual Meeting

External Promotion and Tenure Reviewer

2023 Review of a candidate for promotion and tenure at a large United States medical school

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Council for Undergraduate Research
International Behavioural and Neural Genetics Society
Research Society on Alcoholism
Society for Neuroscience
Society for Research on Nicotine and Tobacco

SUPERVISION OF STUDENT RESEARCH

***** indicates co-author on abstract
# indicates co-author on published manuscript

High Schools Student

Emily Chen	State College High School	2025 - 2026
Erik Norloff	State College High School	2019 - 2020

Undergraduate Student (Primary Mentor)

Emily Chen	Biochemistry and Molecular Biology	2026 – present
Avery Forne	Biochemistry and Molecular Biology	2026 – present
Ella Alakson	Biochemistry and Molecular Biology	2026 – present
Selia Morgan	Political Science	2025 – 2026
Sreeja Thota	Biotechnology	2025
Alyssa Hinnen	Forensic Science	2023 – 2025
Adya Gulati	Premedicine	2024 – 2025
Ria Sharma	Premedicine	2023 – 2025
Loren Nicole Foster	Biology	2023 – 2025
Bailey McLaughlin	Biobehavioral Health	2022 – 2025
Avianna Thompson	Biology	2023
De'jah Coates	Biobehavioral Health	2022 – 2023
Rachel Hanley#	Psychology	2022 – 2023
Geneva Flarend#	Biochemistry and Molecular Biology	2020 – 2023
Emma Anziano*#	Biology	2020 – 2023
Anna Wickenheisser#	Biobehavioral Health	2019 – 2022
Sharleen Banatte	Biology	2021 – 2022
Cara Fliegel	Biology	2020 – 2021
Riya Borwankar	Biobehavioral Health	2020 – 2021
Aidan Peat	Biology	2018 – 2021
Cassandra Holtzapple	Psychology	2020 – 2021
Rachel Bartlett	Biology	2018 – 2020
Kylie Stuhltrager	Biobehavioral Health	2017 – 2020
Grant Swisher	Biology	2018 – 2019
Colton Ruggery#	Premedicine	2017 – 2019
Sonali Patel	Premedicine	2017 – 2018
Reid Horstmyer	Electrical Engineering	2018
Annie Hess	Biobehavioral Health	2018
Valerie Godoy	Biobehavioral Health	2018
Carley Miller*#	Science	2015 – 2018
Zahare Khayat	Science	2017
Tori Pascoe	Biology	2016 – 2017
Abigail Brittingham	Biobehavioral Health	2016 – 2017
Luke Gallaher	Biology	2016
Jacob Thomas*#	Biology	2015 – 2017
Akshat Rajan#	Biology	2015 – 2016
Varna Jammula	Biobehavioral Health	2015
Anna Miller	Biology	2015

Alexandra Ulven	Biochemistry & Molecular Biology	2015
Alex Gechlik*#	Biology	2014 – 2016
Patrick Harper	Toxicology	2014 – 2016
Sohee Min	Biotechnology	2014
Sydni Shub	Biobehavioral Health	2014
Nina Reiser	Biology	2014 – 2015
Caitlin Garrity#	Biobehavioral Health	2014 – 2015
Rebecca Sech	Biobehavioral Health	2013 – 2014
Marissa Soto#	Psychology (University of Colorado)	2012 – 2013
Kasey Ro#	Integrative Physiology (University of Colorado)	2012 – 2013
Riley McCarthy*#	Integrative Physiology (University of Colorado)	2011
Ryan Cox*#	Integrative Physiology (University of Colorado)	2010 – 2011
Laura Rosada-Maldonado	Biology (University of Puerto Rico)	2010
Coral Cabrera-Montalvo	Biology (University of Puerto Rico)	2010
Maricarmen Stout	Integrative Physiology (University of Colorado)	2009 – 2011
Jimena Andersen*#	Biochemistry (University of Bath)	2008 – 2009
Ijang 'Lina' Ngando	Biology (Pacific University)	2005

Medical Student (Primary Mentor)

John (Wes) Meyer	Medicine	2024 – present

Graduate Students (Primary Mentor)

Doris Olekanma	Neuroscience	2026 – present
Leilia Mousavi	Biobehavioral Health	2021 – 2023
Constanza Silva Gallardo*#	Biobehavioral Health	2015 – 2021
Lah-Nhi Phung	Biobehavioral Health	2018
Brenita Jenkins*#	Molecular, Cellular and Integrative Bioscience	2014 – 2015

Graduate Students (Co-Mentor)

Michael Caruso*#	Biobehavioral Health	2015 – 2017

Graduate Students (Mentor for Research Rotation)

Doris Olekanma	Neuroscience	2025
Miracle Eze	Neuroscience	2025
Pu-Hsun Chiu	Molecular, Cellular and Integrative Bioscience	2025
Spencer Chase#	Neuroscience	2022 – 2023
Sophia Kenney	Molecular, Cellular and Integrative Bioscience	2020
Emre Saritepe	Neuroscience	2019
Dakota Brockway	Neuroscience	2018
Laurel Seemiller#	Molecular, Cellular and Integrative Bioscience	2017
Allison Baker*#	Neuroscience	2016

Postdoctoral Trainee (Primary Mentor)

Michael Caruso*#	Biobehavioral Health	2017

AWARDS AND FELLOWSHIPS FOR TRAINEES

Graduate Students

Doris Olekanma

- International Behavioural and Neural Genetics Society Travel Award (2026)

Constanza Silva

- Biobehavioral Health Dissertation Award (2019)
- Appointed to the Prevention and Methodology Training Program (T32 DA017629; 2019 - 2021)

- Elizabeth J. Susman Enhancement Fund Award (2018)
- Appointed to the Biomedical Big Data to Knowledge Training Program (T32 LM012415; 2017-2019)
- Noll Laboratory Travel Grant (2017)
- International Behavioural and Neural Genetics Society Travel Award (2016)
- Center for Brain, Behavior, and Cognition Travel Award (2016)

Michael Caruso
- Gerald E. McClearn Graduate Student Award (2017)
- International Behavioural and Neural Genetics Society Travel Award (2017)
- Hintz Graduate Enhancement Award (2015 - 2017)
- Health Emotions Research Institute Travel Award, Wisconsin Symposium on Emotion (2015)

Undergraduate Students

Bailey McLaughlin
- 1st place poster at the Biobehavioral Founder Day Undergraduate Poster Competition (2025)

Adya Gulati, Alyssa Hinnen & Ria Sharma
- 2nd place poster at the Biobehavioral Founder Day Undergraduate Poster Competition (2025)

Anna Wickenheisser
- 3rd place poster at the Biobehavioral Health Undergraduate Research Forum (2022)
- The John Sr. and Kimlyn Patishnock Undergraduate Research Award: Excellence in Information Literacy Honorable Mention (2021)

Geneva Flarend
- The John Sr. and Kimlyn Patishnock Undergraduate Research Award: Excellence in Information Literacy Award (2022)
- 2nd place poster at the Biobehavioral Health Undergraduate Research Forum (2021)

Aidan Peat
- 1st place poster in Social and Behavioral Sciences at the Penn State Undergraduate Research Exhibition (2019)

Colton Ruggery
- 2nd place poster at the Biobehavioral Health Undergraduate Research Forum (2019)

Carley Miller
- International Behavioural and Neural Genetics Society Travel Award (2018)
- 3rd place poster in Life Sciences at the Penn State Undergraduate Research Exhibition (2017)

Undergraduate Student Support Grants	**Period**	**Award Total**
"Relationship between stress, depression, and SOCS3 expression" **Faculty Mentor for De'jah Coates, Erickson Discovery Grant, Penn State University**	2023	$3,500
"Effects of Stress on Opioid Use Behaviors: In Laboratory Experiments" **Faculty Mentor for Geneva Flarend, Student Engagement Network Grant, Penn State University**	2022	$2,000
"Effects of Stress on Opioid Use Behaviors: A Narrative Review" **Faculty Mentor for Geneva Flarend, Erickson Discovery Grant, Penn State University**	2021	$3,500
"Association between Genetic Variation in	2020	$2,000

Dopamine Genes and Alcohol Consumption in College Students" **Faculty Mentor for Anna Wickenheisser, Student Engagement Network Grant, Penn State University**		
"Understanding Factors Impacting Opioid Addiction in the United States" **Faculty Mentor for Aidan Peat, Student Engagement Network Grant, Penn State University**	2020	$2,000
"The Effects of Adolescent Social Stress on Long-Term Changes in Brain Reactivity to a Stressor" **Faculty Mentor for Kylie Stuhltrager, Health and Human Development Summer Research Grant, Penn State University**	2019	$3,000
"The Influence of Adolescent Social Stress on Opioid Receptor Gene Expression" **Faculty Mentor for Rachel Bartlett, Erickson Discovery Grant, Penn State University**	2019	$3,500
"The Effects of the $\alpha 3\beta 4$ Nicotinic Acetylcholine Receptor Antagonist, 18-Methoxycoronaridine (18-MC), On Alcohol-Related Behaviors" **Faculty Mentor for Colton Ruggery, Erickson Discovery Grant, Penn State University**	2018	$3,500
"Genetic and Age Contributions to Nicotine Sensitivity in Male Mice" **Faculty Mentor for Carley Miller, Erickson Discovery Grant, Penn State University**	2017	$3,500
"The Effects of Chronic Variable Social Stress during Adolescence on Adult Ethanol Consumption in Mice" **Faculty Mentor for Jacob Thomas, Erickson Discovery Grant, Penn State University**	2016	$3,500

DISSERTATION COMMITTEE – PH.D. STUDENT

Date	Student	Role	Department
2024 – 2026	Carlos Novoa	Member	Biobehavioral Health
2024 – 2025	Morgan Sotzen	Member	Biomedical and Integrative Physiology
2023 – 2026	Suyeun Byun	Member	Nutrition
2024 – 2025	Qiaofeng Ye	Member	Biobehavioral Health
2020 – 2024	Samuel Cramer	Member	Neuroscience
2021 – 2023	Chen Wang	Member	Bioinformatics and Genomics
2020 – 2022	Yujie Liao	Member	Statistics
2018 – 2021	Dana Zeid	Member	Biobehavioral Health
2019 – 2021	Constanza Silva Gallardo	Chair	Biobehavioral Health
2019 – 2020	Jiawei Wen	Member	Statistics
2018 – 2020	Jasmine Caulfield	Member	Neuroscience
2018 – 2020	Caitlin Coker	Member	Anatomy (*PSU Hershey)
2014 – 2017	Michael Caruso	Co-Chair	Biobehavioral Health
2014	Alicia Revitsky	Member	Neuroscience

COMPREHENSIVE EXAM COMMITTEE – Ph.D. STUDENT

Date	Student	Role	Department
2024 – 2025	Morgan Sotzen	Member	Biomedical and Integrative Physiology
2023 – 2024	Qiaofeng Ye	Member	Biobehavioral Health
2023 – 2024	Carlos Novoa	Member	Biobehavioral Health
2023	Suyeun Byun	Member	Nutrition
2021 – 2023	Prescilla Garica-Trevizo	Member	Biobehavioral Health
2021	Chen Wang	Member	Bioinformatics and Genomics
2020	Samuel Cramer	Member	Neuroscience
2020	Yujie Liao	Member	Statistics
2019	Laurel Seemiller	Member	Molecular, Cellular and Integrative Biosciences
2019	Jiawei Wen	Member	Statistics
2018 – 2019	Dana Zeid	Member	Biobehavioral Health
2018 – 2019	Constanza Silva Gallardo	Chair	Biobehavioral Health
2018	Jasmine Caulfield	Member	Neuroscience
2018	Caitlin Coker	Member	Anatomy (*PSU Hershey)
2016	Yikang Liu	Member	Biomedical Engineering
2015	Michael Caruso	Member	Biobehavioral Health

CANDIDACY EXAM COMMITTEE – Ph.D. STUDENT

Date	Student	Role	Department
2022	Carlos Novoa	Member	Biobehavioral Health
2022	Qiaofeng Ye	Member	Biobehavioral Health
2021	Abner Apsley	Member	Molecular, Cellular and Integrative Biosciences
2020	Margaret Bedillion	Member	Biobehavioral Health
2019 – 2020	Prescilla Garica-Trevizo	Member	Biobehavioral Health
2019	Samuel Stull	Member	Biobehavioral Health
2018	Laurel Seemiller	Chair	Molecular, Cellular and Integrative Biosciences
2016 – 2017	Dana Zeid	Member	Biobehavioral Health
2016	Jessica Braymiller	Member	Biobehavioral Health
2015 – 2016	Constanza Silva Gallardo	Chair	Biobehavioral Health

MASTER'S THESIS COMMITTEE

Date	Student	Role	Department
2015	Brenita Jenkins	Chair	Molecular, Cellular and Integrative Biosciences

MENTOR ON INSTITUTIONAL TRAINING GRANT

Date	Student	Role	Grant
2021 – 2023	Prescilla Garcia-Trevizo	Co-Mentor	Prevention & Methodology Training
2019 – 2021	Constanza Silva Gallardo	Primary Mentor	Prevention & Methodology Training
2017 – 2019	Jiawei Wen	Co-Mentor	Biomedical Big Data to Knowledge
2017 – 2019	Constanza Silva Gallardo	Primary Mentor	Biomedical Big Data to Knowledge

SCHREYER HONORS THESIS SUPERVISION

Date	Student
2025	Bailey McLaughlin
2023	Emma Anziano
2021	Aidan Peat
2019	Colton Ruggery
2017	Jacob Thomas

MILLENNIUM SCHOLORS THESIS SUPERVISION

Date	Student
2025	Loren Nicole Foster

TEACHING EXPERIENCE

The Pennsylvania State University, University Park, PA

2025 **BBH310H** Honors Research Methods in Biobehavioral Health (Fall)
Professor (**40 lecture hours**; 12 undergraduate students)

BBH210 Biobehavioral Aspects of Genetics (Spring)
Professor (**40 lecture hours**; 50 undergraduate students)

2024 **BBH310H** Honors Research Methods in Biobehavioral Health (Fall)
Professor (**40 lecture hours**; 8 undergraduate students)

BBH 451 Pharmacological Influences on Health (Spring)
Professor (**40 lecture hours**; 47 undergraduate students)

2023 **BBH310H** Honors Research Methods in Biobehavioral Health (Fall)
Professor (**40 lecture hours**; 4 undergraduate students)

2021 **BBH397** Honors Research Methods in Biobehavioral Health (Fall)
Professor (**40 lecture hours**; 9 undergraduate students)

BBH 597 Orientation to Biobehavioral Health: Professional Development Part 1 (Fall)
Guest Discussant: Research grants and fellowships
Discussant at 1 class (**1.25 lecture hours**; 8 graduate students)

2020 **BBH397** Honors Research Methods in Biobehavioral Health (Fall)
Professor (**40 lecture hours**; 15 undergraduate students)

BBH 597 Orientation to Biobehavioral Health: Professional Development Part 1 (Fall)
Guest Discussant: Research grants and fellowships
Discussant at 1 class (**1.25 lecture hours**; 5 graduate students)

2019 **BBH210** Biobehavioral Aspects of Genetics (Fall)
Professor (**40 lecture hours**; 17 undergraduate students)

BBH 501 Biobehavioral Systems in Health & Development: Theory and Processes (Fall)
Professor (**40 lecture hours**; 9 graduate students)

BBH 597 Orientation to Biobehavioral Health: Professional Development Part 2 (Spring)
Guest Discussant: Giving a research talk and time management
Discussant at 1 class (**1.25 lecture hours**; 4 graduate students)

BBH 143 Drugs, Behavior, and Health (Spring)
Guest Lectures: Opioids
Guest lecturer for 1 class (**0.8 lecture hours**; 40 undergraduate students)

2018 **BBH297** Biobehavioral Aspects of Genetics (Fall)
Professor (**40 lecture hours**; 38 undergraduate students)

BBH 501 Biobehavioral Systems in Health & Development: Theory and Processes (Fall)
Professor (**40 lecture hours**; 12 graduate students)

BBH 451 Pharmacological Influences on Health (Spring)
Professor (**40 lecture hours**; 70 undergraduate students)

BBH 503 Biobehavioral Systems in Health & Development: Processes and Integration (Spring)
Guest Lectures: Genetics and Epigenetics
Guest lecturer for 2 classes (**2.5 lecture hours**; 4 graduate students)

2017 **BBH 597** Orientation to Biobehavioral Health: Professional Development Part 1 (Fall)
Guest Discussant: Academic societies and meetings
Discussant for 1 class (**2 lecture hours**; 3 graduate students)

BBH297 Biobehavioral Aspects of Genetics (Fall)
Professor (**40 lecture hours**; 18 undergraduate students)

PSU14 First-Year Seminar Health and Human Development (Fall)
Professor (**12.5 lecture hours**; 25 undergraduate students)

BBH 503 Biobehavioral Systems in Health & Development: Processes and Integration (Spring)
Guest Lectures: Genetics and Epigenetics
Guest lecturer for 2 classes (**2.5 lecture hours**; 5 graduate students)

2016 **BBH297** Biobehavioral Aspects of Genetics (Fall)
Professor (**40 lecture hours**; 38 undergraduate students)

BBH 101WC Introduction to Biobehavioral Health (Summer)
Professor (**3 credit hours**; 40 undergraduate students)

BBH/BIOL 470 Functional and Integrative Neurosciences (Spring)
Professor (**40 lecture hours**; 50 undergraduate students)

2015 **BBH/BIOL 470** Functional and Integrative Neurosciences (Fall)
Guest Lecture: Drug use and abuse
Guest lecturer for 1 class (**1.25 lecture hours**; 13 undergraduate students)

BBH/BIOL 470 Functional and Integrative Neurosciences (Spring)
Professor (**40 lecture hours**; 70 undergraduate students)

BBH 311 Interdisciplinary Integration in Biobehavioral Health (Spring)
Guest Lecture: Animal Models
Guest lecturer for 1 class (**1.25 lecture hours**; 190 undergraduate students)

2014 **BBH/BIOL 470** Functional and Integrative Neurosciences (Fall)
Guest Lecture: Drug use and abuse
Guest lecturer for 1 class (**1.25 lecture hours**; 20 undergraduate students)

KINES 360 The Neurobiology of Motor Control and Development (Fall)
Guest Lecture: The Auditory System
Guest lecturer for 1 class (**1.25 lecture hours**; 180 undergraduate students)

BBH 311 Interdisciplinary Integration in Biobehavioral Health (Fall)
Guest Lecture: Animal Models
Guest lecturer for 1 class (**1.25 lecture hours**; 125 undergraduate students)

BBH 501 Biobehavioral Systems in Health & Development: Theory & Process (Fall)
Guest Lecture: Nicotinic acetylcholine receptors influence nicotine and alcohol behaviors
Guest lecturer for 1 class (**1.25 lecture hours**; 8 graduate students)

BBH 311 Interdisciplinary Integration in Biobehavioral Health (Spring)
Professor (**40 lecture hours**; 40 undergraduate students)

NEURO 597A Current Topics in Neuroscience (Spring)
Guest Lecture: Behavioral Genetics of Alcohol and Nicotine Use
Guest lecturer for 1 class (**1.25 lecture hours**; 7 graduate students)

University of Colorado, Boulder, CO

2013 **IPHY 5262** Application of Bioinformatics and Genomics (Spring)
Guest Lecture: Next Generation Sequencing
Guest lecturer for 1 class (**3 lecture hours**; 10 graduate students)

PSYC 5423 Genetics of Psychopathology (Spring)
Guest Lecture: Detecting Genetic Associations with Sequence Data
Guest lecturer for 1 class (**3 lecture hours**; 5 graduate students)

Denver School of Nursing, Denver, CO

2011 **BIO 240** Human Genetics & Genomics (Spring)
Professor (**40 lecture hours**; 8 students)

BIO 240 Human Genetics & Genomics (Summer)
Professor (**40 lecture hours**; 12 students)

BIO 240 Human Genetics & Genomics (Winter)
Professor (**40 lecture hours**; 14 students)

PROFESSIONAL DEVELOPMENT

Penn State Provost Endorsement Programs
- Top 5 Universal Design for Learning program (Spring 2026)
- Mentoring in Research program (Spring 2026)
- Penn State Emerging Academic Leaders (PSEAL) program (Fall 2024)

Penn State/Office of Vice Provost for Faculty Affairs and the Graduate School
- Mentoring Matters Workshop (Fall 2023)

Washington University, St. Louis
- The COMPASS Training and Mentoring Program (Spring 2023)

Penn State Learning Resource Network
- BUILD @ Penn State Recognizing the Importance of Inclusion in the Workplace (December 2022)
- Adopting a New Leadership Mindset to Drive DEIB (December 2022)
- Skill for Building a Culture of Inclusion (November 2024)

Social Science Research Institute
- Mentorship Workshop (September 2022)

GenED Webinar Series
- Planning for Accessibility (November 2025)

Changing the Future for Women at Penn State (2021) – Leadership program through Next Level Leadership

Schreyer Institute for Teaching Excellence – Workshops, Roundtables, or Consultations
- Smarter Not Harder: Organizational Strategies for Teaching (November 2024)
- Engaging Students Asynchronously (August 2020)
- Engaging Students Synchronously (August 2020)
- Planning for Student Engagement (August 2020)
- Teaching a Topic for the First Time (September 2019)
- Lecturing Can Be Active Learning: A New Evidence-Based Approach to an Old Debate (April 2018)
- How to Create Effective Multiple-Choice Tests (November 2017)
- Making Multiple Choice Test More Effective (March 2017)
- First Steps in Planning a Whole Course (November 2015)
- Teaching in a Large Class (October 2015)
- How to Plan a Class Session (September 2015)
- First Impressions in the Classroom (August 2015)
- Flipped Classrooms: Synergies Between Resident Instruction & Online Education (January 2015)
- Creating a Stellar Syllabus (December 2014)
- Interpreting SRTEs (June 2014)
- Assessments: Improving Multiple Choice Tests Through Item Analysis (February 2014)

New Instructor Orientation (September 2013)

Penn State World Campus - Certificate for Online Teaching
OL 1000 – Introduction to the World Campus
OL 1800 – Accessibility
OL 1900 – Prove It!
OL 2000 – Effective Online Teaching
OL 2700 – Online Presence

Information Technology Services – Workshops
LionPATH (August 2016)
Canvas: Creating Effective Assessments (July 2016)
Canvas: Getting Started with Creating and Delivering Effective Content (July 2016)
Canvas: Using the Gradebook (July 2016)
Using Canvas to Enhance Your Teaching (April 2016)
ANGEL Basics (August 2013)

SCIENTIFIC OUTREACH

Course developer and instructor, University of Colorado Science Discovery: Drugs, Brain and Behavior class, 2010.
Course developer and instructor, Saturday Academy of Portland: Neuroscience Course, 2006.

Exhibitor, "Brains and Safety", Easterly Parkway Elementary School, 2019.
Exhibitor, "Understanding Our Genes", Easterly Parkway Elementary School, 2018.
Presenter, "Drugs, Brain and Behavior", University of Colorado Science Discovery, 2011.
Presenter, "NIDA: Shattering the Myths", Ralston Elementary, 2010.
Presenter, "Mechanisms of alcohol and nicotine co-abuse: The role of acetylcholine receptors in alcohol behaviors", University of Colorado Neuroscience Club, 2009.
Presenter, "Of Brains and Safety", Park Rose City Elementary School, 2006.
Presenter, "Of Brains and Safety", Maplewood Elementary School, 2006
Volunteer, Northwest Undergraduate Science Research Conference, 2006.
Volunteer, Portland Public School Bowl Off, 2006.
Exhibitor, Brain Awareness Week Fair, 2006.
Organizing Committee Chair, Brain Bowl, 2006.
Volunteer, Northwest Undergraduate Science Research Conference, 2005.
Presenter, West Linn High School psychology class, 2005.
Organizing Committee Member, Brain Bowl, 2005.
Volunteer, KIDS! Discover OHSU Outreach Program, 2005.
Exhibitor, Brain Awareness Week Fair, 2005.
Volunteer, Brain Bowl, 2004.
Exhibitor, Brain Awareness Week Fair, 2004.
Exhibitor, Kids Judge! Science Fair, 2003.