

Marissa Aileen Ehringer

PROFESSOR



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EDUCATION:

2001-2002

Postdoctoral Research Fellow in Behavior Genetics University of Colorado Institute for Behavioral Genetics, Boulder, CO

1999-2001

Certificate of Training in Behavioral Genetics University of Colorado Institute for Behavioral Genetics, Boulder, CO

1997-2001

Ph.D., Human Medical Genetics University of ColoradoHealth Sciences Center Human Medical Genetics Program, Denver CO

1991-1995

B.S., with Distinction and Honors in Biology B.A., with Distinction in French Indiana University, Bloomington, IN

AWARDS

and HONORS:

2020

UROP Outstanding Mentor
Honorable Mention, nominated by
Guillermo Reyes-Martinez

PROFESSIONAL POSITIONS

2022-present

Professor with Tenure, Chair
Department of Integrative Physiology
University of Colorado, Boulder, CO

2003-present

Faculty Fellow
Institute for Behavioral Genetics
University of Colorado, Boulder, CO

2003-present

Member
Center for Neuroscience
University of Colorado, Boulder, CO

2008-present

Member
University of Colorado Cancer Center, Lung/Head and Neck
Program Aurora, Denver, Boulder, CO

Aug 2021-July 2022

Interim Chair
Department of Integrative Physiology
University of Colorado, Boulder, CO

Jan-July 2014

Acting Director
Institute for Behavioral Genetics
University of Colorado, Boulder, CO

2010-2022

Associate Professor with Tenure
Department of Integrative Physiology
University of Colorado, Boulder, CO

2003-2010

Assistant Professor
Department of Integrative Physiology
University of Colorado, Boulder, CO

2002-2003

Research Associate
Institute for Behavioral Genetics
University of Colorado, Boulder, CO

1997

Professional Research Assistant
Dept Biochemistry & Molecular Genetics
Laboratory of Tom Blumenthal
University of Colorado Health Sciences Center, Denver, CO

1996-1997

Professional Research Assistant
Department of Biology, Laboratory of J. Jose Bonner
Indiana University, Bloomington, IN

1995-1996

Professional Research Assistant
Department of Biology
Laboratory of Norman Pace
Indiana University, Bloomington, IN

2001-2002 Postdoctoral Training Fellowship University of Colorado Health Sciences Center, Denver CO	1994-1995 Undergraduate Research Assistant Department of Biology Laboratory of Noman Pace Indiana University, Bloomington, IN
2000-2001 Graduate Student Training Fellowship Institute for Behavioral Genetics, University of Colorado Boulder, CO	1993 Undergraduate Research Assistant Department of Biology Laboratory of Gretchen Kirchner Indiana University Southeast, New Albany, IN
<u>ACTIVE - RESEARCH FUNDING</u>	
1994 Undergraduate Research Grant Department of Biology, Indiana University, Bloomington, IN	2023-2024 AB Nexus (MPIs: Ehringer, Sandoval) “The Effect of Human GCKR P446L Variant on Alcohol Behaviors and Metabolism” Award Total: \$100,00
1993 Intercampus Undergraduate Summer Research Grant Indiana University /IU Southeast, Bloomington, IN/New Albany, IN	2022-2024 NIH, R21 DA05781 (MPIs: Ehringer, Hoeffler, Stitzel) “Role of glial expression in nicotine behaviors for genes identified through human GWAS” Award Total: \$343,000
1991-1995 Member Honors Division, Indiana University, Bloomington, IN	2020-2025 NIH, U01 DA051937 (MPIs: Ehringer, Bachtell, Saba) “Identification of Genes and Genetic Networks Contributing to Opioid Use Disorder Traits in the Hybrid Rat Diversity Panel” Award Total: \$1,700,000
<u>ACTIVE – TRAINING GRANTS</u>	
1991-1992 Member Phi Eta Sigma Freshman Honor Society	2019-2024 NIH, T32 DA017637-17 Co-Investigator “Research Training: Genetics of Substance Abuse” Award Total \$1,304,626
	2020-2025 NIH, T32 MH016880-39 Co-Investigator “Research Training: Mental Health Behavior Genetics” Award Total \$1,219,468

COMPLETED - RESEARCH FUNDING

2018-2020	NIH, R03 AA026733 Co-I, now PI, no-cost extension "Examining the role of a GCKR Polymorphism in alcohol-related behaviors in mice" Award Total \$100,000
2018-2019	Skaggs School of Pharmaceutical Sciences, AMC, MPI with Laura Saba and Ryan Bachtell "Dissecting the Genetic Predisposition for Opioid Self Administration using at Rat Model" Award Total: \$50,000
2018-2019	LEAP Seed grant, University of Colorado "Role of miR-138 in nicotine behaviors using a mouse model" Award Total \$9,000
2009-2014	NIH, R01 AA017889, Principal Investigator "Translational Studies of Nicotinic Receptor Genes: Alcohol and Nicotine" Award Total \$2,747,347
2009-2014	NIH, P60 DA011015 (PI: Hewitt) Co-Investigator on Core B Data Management, Informatics, and Biostatistics "Center on Antisocial Drug Dependence: The Genetics of HIV Risk Behaviors", Award Total \$14,400,000 total;\$1,400,000 for Core B

2009-2011	NIH, R21 DA026901, (MPIs: Ehringer and Stitzel) "Nicotinic Receptor Genes & Substance Abuse: Functional Studies of Associated SNPs" Award Total \$876,204
2008-2012	NIH R01 DA012845 (PI: Hewitt) "Genetics of Adolescent Antisocial Drug Dependence", Co-I Award Total \$2,443,536
2005-2010	NIH K01 AA015336 (PI:Ehringer) "Molecular Genetics and Behavior: Alcohol and Tobacco Use" K01 AA015336 Mentored Career Award Award Total \$643,109
2008-2009	Seed Grant, American Cancer Society, Principal Investigator of Seed Award "Functional Characterization of Nicotinic Receptor Genes Associated with Smoking Behavior and Lung Cancer" IRG #57-001-47 Award Total \$10,000
2006-2010	P01 HD31921 (PI: Harris) The National Longitudinal Study of Adolescent Health Subcontract to IBG, Project V (PI: Hewitt): Gene*Environment Contributions to Drug Use and Problem Behavior Trajectories", NIH, Co-Investigator Award Total \$526,830 to IBG
2003-2009	P60 DA011015 (PI: Crowley) Antisocial Drug Dependence: Genetics", NIH, Co-Investigator on Assessment Core B Award Total \$34,839
2007-2008	Pilot project for P60 DA011015 (PI: Crowley) "Resequencing of 5'region in CHRNA3 gene" , NIH, PI of pilot project Award Total \$29,400
2005-2007	NARSAD, (PI: Whisman) "Prospective Associations Among Genes, Stress, and Depression" Co-Investigator Award Total \$100,000
2003-2006	R01 AA014250 (PI: Smolen) "Genetic Association and Stratification: Alcoholism" NIH, Co-Investigator Award Total \$425,000
2004-2005	University of Colorado, Principal Investigator "Searching for Genes Involved in Alcohol and Tobacco Addiction" Grant-in-Aid, Council on Research and Creative Work (CRCW) Award Total \$6997
2005-2006	University of Colorado, Principal Investigator "How are Running (Exercise) and Alcohol Preference Related in a Mouse Model" Junior Faculty Development Award, Council on Research and Creative Work (CRCW) Award Total \$5000
2004-2005	Supplement #4S-003 Colorado Tobacco Research Program, Principal Investigator "Candidate Genes for Tobacco Use and Nicotine Dependence" Award Total \$100,000
2004	Pilot Project", NIH, PI of pilot project P60 DA011015 (PI: Crowley) "Targeting SNPs in the CNR1 gene for Marijuana Association Study Component 6 Award Total \$20,000
2002-2004	(IDEA 1535688) Colorado Tobacco Research Program, Principal Investigator "Candidate Genes for Tobacco Use and Dependence" Innovative Developmental and Exploratory Award Award Total \$110,250

Sponsor of Individual Career Development Awards

2011-2016

K01 AA019447, NIH, Sponsor (PI: Dr. Helen Kamens)
"Genetics of Alcohol and Nicotine Behaviors"
Award Total \$675,0000

PUBLICATIONS

*Indicates an undergraduate student under the supervision of Dr. Ehringer.

**Indicates a graduate student under the supervision of Dr. Ehringer.

***Indicates a postdoctoral trainee under the supervision of Dr. Ehringer.

2024		83. E.P. Duffy**, J.O. Ward, L.H. Hale, K.T. Brown, A. Kwilas, L. Saba, M. Ehringer , R. Bachtell. (2024) Genetic background and sex influence somatosensory sensitivity and oxycodone analgesia in the Hybrid Rat Diversity Panel, under revision.
	DOI: 10.1016/j.neubiorev.2023.105487 PMID: 38040073	82. E.P. Duffy**, R.K. Bachtell, M.A. Ehringer . (2024) Opioid Trail: Tracking contributions to opioid use disorder from host genetics to the gut microbiome. <i>Neuroscience and Biobehavioral Reviews</i> , 156:105487.
2023	DOI: 10.1016/j.physbeh.2023.114343	81. E.A. Mehrhoff**, W.C. Booher**, J. Hutchinson*, G. Schumacher*, C. Borski, C.A. Lowry, C.A. Hoeffler, M.A. Ehringer . (2023) Diazepam effects on anxiety-related defensive behavior of male and female high and low open-field activity inbred mouse strains. <i>Physiology and Behavior</i> , in press.
		80. D.R. Dokuru, T.B. Horwitz, S.M. Freis, M.C. Stallings, M.A. Ehringer . (2023) South Asia: The Missing Diverse in Diversity. <i>Behavior Genetics</i> , in press.
		79. K.N. Paulich, S.M. Freis, P.N. Romero Villela, T.B. Horwitz, S. Aki, M.C. Stallings, M.A. Ehringer . (2023) Reinvigoration of a Diversity, Equity, and Inclusion committee at the Institute for Behavioral Genetics: Student-driven Progress. <i>Behavior Genetics</i> . In press.
	DOI: 10.1111/gbb.12851	78. M.S. Brasher, T.J. Mize, A.L. Thomas, C.A. Hoeffler, M.A. Ehringer , L.M. Evans. (2023) Testing associations between human anxiety and genes previously implicated by mouse anxiety models. <i>Genes, Brain, and Behavior</i> .
	DOI: 10.1371/journal.pgen.1010693	77. L.M. Evans, C.H. Arehart, A.D. Grotzinger, T.J. Mize, M.S. Brasher, J.A. Stitzel, M.A. Ehringer , C.A. Hoeffler. (2023) Transcriptome-wide gene-gene interaction associations elucidate pathways and functional enrichment of complex traits. <i>PLOS Genetics</i> .
	DOI: 10.1111/gbb.12832	76. W. Booher**, L. Vanderlinden. L. Hall**, A. Thomas**, L. Evans, L. Saba, M.A. Ehringer . (2023) Hippocampal RNA sequencing in mice selectively bred for High and Low Activity. <i>Genes, Brain, and Behavior</i> . 22(2):e12832.
	DOI: 10.1007/s11357-022-00587-3	74. V.E. Brunt, A.P. Ikoba, B.P. Ziemba, D.B. Ballak, A. Hoischen, C.A. Dinarello, M.A. Ehringer , D.R. Seals. (2023) Circulating interleukin-37 declines with aging in healthy humans: relations to healthspan indicators and IL37 gene SNPs. <i>Geroscience</i> . 45(1):65-84.
2022	DOI: 10.1038/s41586-022-05477-4	75. G.R.B. Saunders, X. Wang, F. Chen, S-K. Jang, M. Liu, ,..... M.A. Ehringer ,...D.J.Liu, S. Vrieze. (2022) Genetic diversity fuels gene discovery for tobacco and alcohol use. <i>Nature Human Behavior</i> , 612(7941):720-724.
2021	DOI: 10.1002/ajmg.b.32874	73. S.M.C. Colbert, S.A. Funkhouser, E.C. Johnson, C.L. Morrison, C.A. Hoeffler, N.P. Friedman, M.A. Ehringer , L.M. Evans. (2021) Novel characterization of the multivariate genetic architecture of internalizing

2020

DOI:
org/10.1111/gbb.12730

72. W. Booher**, L. Hall**, A. Thomas**, G. Reyes-Martinez*, K. Scanlon*, C. Lowry, **M. A. Ehringer**. (2021) Anxiety-related defensive behavioral responses in mice selectively bred for high and low activity. *Genes, Brain, and Behavior*, 20(7):e12730.

DOI:
10.1111/add.15450

71. L. M. Evans, S. Jang, D.B. Hancock, **M.A. Ehringer**, J.M. Otto, S.I. Vrieze, M.C. Keller. (2021) Genetic architecture of four smoking behaviors using partitioned SNP heritability. *Addiction*. 116(9):2498-2508.

DOI:
10.1038/s41467-021-21226-z
PMID: 33785739
PMCID: PMC8009871

70. D. McGuire, Y. Jiang, M. Liu, J.D. Weissenkampen, S. Eckert, L. Yang, F. Chen, GSCAN, A. Berg, S. Vrieze, B. Jiang, Q. Li, D.J. Liu. (2021) Model-based assessment of replicability for genome-wide association meta-analysis. *Nature Communications*, 12(1):1964. *member of GSCAN

DOI:
10.7554/eLife.56630

69. H. Wong, J. Levenga, L. LaPlante, B. Keller, A. Cooper-Sansone, C. Borski, R. Milstead, M. Ehringer, C. Hoeffler. (2020) Isoform-specific roles for AKT in affective behavior, spatial memory, and extinction related to psychiatric disorders. *eLife*, 19:e56630.

DOI:
10.1093/ntr/ntaa229
PMID: 33165565

68. C. Adjangba, R. Border, P. Romero Villela**, **M.A. Ehringer**, L.C. Evans. (2020) Little evidence of modified genetic effect of rs16969968 on heavy smoking based on age of onset of smoking. *Nicotine and Tobacco Research*, 23(6):1055-1063.

DOI:
10.1007/s10519-020-10014-y
PMCID: PMC7854991

67. A.L. Thomas**^D, L.M. Evans^D, M.D. Nelsen, E.J. Chesler, M.S. Powers***, W.C. Booher**, C.A. Lowry, J.C. DeFries, **M.A. Ehringer** (2020) Whole-genome sequencing of inbred mouse strains selected for high and low open-field activity. *Behavior Genetics*, 51(1):68-81.

DOI:
10.1093/ntr/ntaa006
PMID: 31930296
PMCID: PMC7749195

66. L.C. Evans, E.C. Johnson, W.E. Melroy-Greif**, J.K. Hewitt, C.A. Hoeffler, M.C. Keller, L.M. Saba, J.A. Stitzel, **M.A. Ehringer** (2020) The role of a priori-identified addiction and smoking gene sets in smoking behaviors. *Nicotine and Tobacco Research*, 22(8):1310-1315.

2019

DOI:
10.1016/j.alcohol.2018.10.007
PMID: 30616894

65. W.C. Booher**, N.R. Hof***, **M.A. Ehringer** (2019) The effect of voluntary wheel running on 129/SvEvTac and C3H/1Bg alcohol consumption. *Alcohol*, 77:91-99.

DOI:
10.1038/s41588-018-0307-5
PMCID: PMC6358542

64. M. Liu, Y. Jiang, R. Wedow, Y. Li, D.M. Brazel,...**M.A. Ehringer**,...J.K. Hewitt,...M.C. Keller,...J.A. Stitzel, K. Stefansson, T.E. Thorgeirsson, G. Abecasis, D.J. Liu, S. Vrieze. (2019) Association studies of up to 1.2 million individuals yield new insights into the genetic etiology of tobacco and alcohol use. *Nature Genetics*, 51(2): 237-244. PMC6358542

DOI:
10.1093/ntr/nty095
PMCID: PMC6528143
PMID: 29767774

63. S. M. Lutz, B. Frederiksen, F. Begum, M.H. Cho, B. Hobbs, M.L. McDonald, M.M. Parker, D. L. DeMeo, **M. Ehringer**, K. Young, L. Jiang, M.G. Foreman, G.L. Kinney, B.J. Make, D.A. Lomas, P. Bakke, A. Gulsvik, J.D. Crapo, E.K. Silverman, T.H. Beaty, J.E. Hokanson, the ECLIPSE and COPDGene Investigators (2019) Common and rare variants analysis of smoking related traits among current and former smokers of European and African ancestry. *Nicotine and Tobacco Research*, 21(6):714-722.

2017

DOI:
10.1016/j.biopsych.2017.06.033
PMID: 28823710
PMCID: PMC5643230

62. E. C. Johnson, R. Border, W.E. Melroy-Greif**, C.A. deLeeuw, **M.A. Ehringer**, M.C. Keller. (2017) No evidence that schizophrenia candidate genes are more associated with schizophrenia than noncandidate genes. *Biological Psychiatry*, 82(10):702-708.

DOI:
10.1186/s13104-017-
2470-7

61. H.M. Kamens***, C. Silva, R. McCarthy*, R.J. Cox*, **M.A. Ehringer** (2017) No evidence of a role of the $\beta 4$ subunit of the nicotinic acetylcholine receptor in alcohol-related behaviors. *BMC Res Notes*, 10:151.

DOI::
10.1093/ntr/ntw200
PMID: 27613895
PMCID: PMC5868095

60. W.E. Melroy-Greif**, M.A. Simonson, R.P. Corley, S.M. Lutz, J.E. Hokanson, **M.A. Ehringer** (2017) Examination of the involvement of cholinergic-associated genes in nicotine behaviors in European and African Americans. *Nicotine and Tobacco Research*, 19:4(417-425).

2016

DOI:
10.1016/j.alcohol.2015.10.
005
PMID: 27788777
PMCID: PMC5123698

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

DOI:
10.1111/gbb.12294
PMID: 27063791
PMCID: PMC4891292

58. T. Darlington**, R. McCarthy*, R. Cox*, J. Miyamoto-Ditmon, X. Gallego, **M.A. Ehringer** (2016) Voluntary wheel running reduces voluntary consumption of ethanol in mice: identification of candidate genes through striatal gene expression profiling. *Genes, Brain, and Behavior*, 15(5):474-90.

DOI:
10.1007/s10519-016-
9792-4
PMID: 27085880
PMCID: PMC4975622

57. H.M. Kamens***, R.P. Corley, P.A. Richmond, T.M. Darlington**, R. Dowell, C.J. Hopfer, M.C. Stallings, J.K. Hewitt, S.A. Brown, **M.A. Ehringer** (2016) Evidence for association between low frequency variants in CHRNA6/CHRNA3 and antisocial drug dependence. *Behavior Genetics*, 46(5):693-704.

DOI: 10.1007/s10519-015-
9737-3
PMID: 26392368
PMCID: PMC4752855

56. T. Schwantes-An, J. Zhang, L. Chen, S.M. Hartz, R.C. Culverhouse, X. Chen, H. Coon, J. Frank, H.M. Kamens***, B. Konte, L. Kovanen, A. Latvala, L.N. Legrand, B.S. Maher, W.E. Melroy**, E.C. Nelson, M.W. Reid, J.D. Robinson, P. Shen, B. Yang, J.A. Andrews, P. Aveyard, O. Beltcheva, S.A. Brown, D.S. Cannon, S. Cichon, R.P. Corley, N. Dahmen, L. Degenhardt, T. Foroud, W. Gaebel, I. Giegling, S.J. Glatt, R.A. Grucza, J. Hardin, A.M. Hartmann, A.C. Heath, S. Herms, C.A. Hodgkinson, P. Hoffmann, H. Hops, D. Huizinga, M. Ising, E.O. Johnson, E. Johnstone, R.P. Kaneva, K.S. Kendler, F. Kiefer, H.R. Kranzler, K.S. Krauter K.S., O. Levrán, S. Lucae, M.T. Lynskey, W. Maier, K. Mann, N.G. Martin, M. Mattheisen, G.W. Montgomery, B. Müller-Myhsok, M.F. Murphy, M.C. Neale, M.A. Nikolov, D. Nishita, M.M. Nöthen, J. Nurnberger, T. Partonen, M.L. Pergadia, M. Reynolds, M. Ridinger, R.J. Rose, N. Rouvinen-Lagerström, N. Scherbaum, C. Schmä, M. Soyka, M.C. Stallings, M. Steffens, J. Treutlein, M. Tsuang, T.L. Wall, N. Wodarz, V. Yuferov, P. Zill, A.W. Bergen, J. Chen, P.M. Cinciripini, H.J. Edenberg, **M.A. Ehringer**, R.E. Ferrell, J. Gelernter, D. Goldman, J. Hewitt, C.J. Hopfer, W.G. Iacono, J. Kaprio, M.J. Kreek, I.M. Kremensky, P.A.F. Madden, M. McGue, M.R. Munafò, R.A. Philibert, M. Rietschel, A. Roy, D. Rujescu, S.T. Saarikoski, G.E. Swan, A.A. Todorov, M.M. Vanyukov, R.B. Weiss, L.J. Bierut, N.L. Saccone. (2016) Association of the *OPRM1* variant rs1799971 (A118G) with non-specific liability to substance dependence in a collaborative *de novo* meta-analysis of European-ancestry cohorts. *Behavior Genetics*, 46(2):151-69.

2015

DOI:
10.1016/j.neuropharm.20
15.08.035
PMID: 26318101
PMCID: PMC4655151

55. H.M. Kamens***, J. Miyamoto, M.S. Powers***, K. Ro*, M. Soto*, R. Cox*, J.A. Stitzel, **M.A. Ehringer**. (2015) The $\beta 3$ subunit of the nicotinic acetylcholine receptor: modulation of gene expression and nicotine consumption. *Neuropharmacology*, 99:639-49.

DOI:
10.1016/j.physbeh.2014.1
0.008
PMID: 25447477
PMCID: PMC4258452

54. X. Gallego***, R.J. Cox*, E. Funk*, R.A. Foster*, **M.A. Ehringer**. (2015) Voluntary exercise decreases ethanol preference and consumption in C57BL/6J adolescent mice: Sex differences and hippocampal BDNF expression. *Physiology and Behavior*. 138:28-36.

2014

DOI:
10.1016/j.addbeh.2014.07.014
PMCID: PMC4240634
PMID: 25127196

53. J. Daw, J.D. Boardman, R. Peterson, A. Smolen, B.C. Haberstick, **M.A. Ehringer**, S.T. Ennett, and V.A. Foshee. (2014) The interactive effect of neighborhood peer cigarette use and 5HTTLPR Genotype on individual cigarette use. *Addictive Behaviors*. 39(12): 1804-1810.

DOI:
10.1007/s10519-014-9653-y
PMID: 24687270
PMCID: PMC4098655

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

DOI:
10.1016/j.bbr.2013.11.011
PMCID: PMC3893816
PMID: 24239693

51. T.M. Darlington**, R.D. McCarthy**, R.J. Cox, and **M.A. Ehringer**. (2014) Mesolimbic transcriptional response to hedonic substitution of voluntary exercise and voluntary ethanol consumption. *Behavioural Brain Research*. 259:313-320.

2013

DOI:
10.1016/j.alcohol.2013.07.002
PMID: 23981442
PMCID: PMC3836826

50. J.N. McClintick, X. Xuei, J.A. Tischfield, A. Goate, T. Foroud, L. Wetherill, **M.A. Ehringer**, and H.J. Edenberg. (2013) Stress-response pathways are altered in the hippocampus of chronic alcoholics. *Alcohol*. 47(7): 505-515.

DOI: 10.1002/gepi.21760
PMCID: PMC3947535
PMID: 24186853

49. S.H. Stephens***, S.M. Hartz, N.R. Hoft***, N.L. Saccone, R.C. Corley, J.K. Hewitt, C.J. Hopfer, N. Breslau, H. Coon, X. Chen, F. Ducci, N. Dueker, N. Franceschini, J. Frank, Y. Han, N.N. Hansel, C. Jiang, T. Korhonen, P.A. Lind, J. Liu, M. Michel, L-P. Lyytikäinen, J.R. Shaffer, S.E. Short, J. Sun, A. Teumer, J.R. Thompson, N. Vogelzangs, J.M. Vink, A. Wenzlaff, W. Wheeler, B-Z. Yang, S.H. Aggen, A.J. Balmforth, S. Baumesiter, T.H. Beaty, D.J. Benjamin, A.W. Bergen, U. Broms, D. Cesarini, N. Chatterjee, J. Chen, Y-C. Cheng, S. Cichon, D. Couper, F. Cucca, D. Dick, T. Foroud, H. Furberg, I. Giegling, N.A. Gillespie, F. Gu, A.S. Hall, J. Hällfors, S. Han, A.M. Hartmann, K. Heikkilä, I.B. Hickie, J.J. Hottenga, P. Jousilahti, M. Kaakinen, M. Kähönen, P.D. Koellinger, S. Kittner, B. Konte, M-T. Landi, T. Laatikainen, M. Leppert, S.M. Levy, R.A. Mathias, D.W. McNeil, S.E. Medlund, G.W. Montgomery, T. Murray, M. Nauck, K.E. North, P.D. Paré, M. Pergadia, I. Ruczinski, V. Salomaa, J. Viikari, G. Willemsen, K.C. Barnes, E. Boerwinkle, D.I. Boomsma, N. Caporaso, H.J. Edenberg, C. Francks, J. Gelernter, H.J. Grabe, H. Hops, M-R. Jarvelin, M. Johannesson, K.S. Kendler, T. Lehtimäki, P.K.E. Magnusson, M.L. Marazita, J. Marchini, B.D. Mitchell, M.M. Nöthen, B.W. Penninx, O. Raitakari, M. Rietschel, D. Rujescu, N.J. Samani, A.G. Schwartz, S. Shete, M. Spitz, G.E. Swan, H. Völzke, J. Veijola, Q. Wei, C. Amos, D.S. Canon, R. Grucza, D. Hatsukami, A. Heath, E.O. Johnson, J. Kaprio, P. Madden, N.G. Martin, V.L. Stevens, R.B. Weiss, P. Kraft, L.J. Bierut, **M.A. Ehringer**. (2013) Distinct Loci in the CHRNA5/CHRNA3/CHRNA4 Gene Cluster are Associated with Onset of Regular Smoking. *Genetic Epidemiology*. 37(8):846-859.

DOI:
10.1016/j.brainres.2013.07.017
PMCID: PMC3839343
PMID: 23872218

48. A.V. Flora***, C.A. Zambrano, X. Gallego***, J.H. Miyamoto, K.A. Johnson*, K.A. Cowan*, J.A. Stitzel, **M.A. Ehringer**. (2013) Functional characterization of SNPs in the CHRNA3/B4 intergenic region associated with drug behaviors. *Brain Research*. 1529:1-15

DOI:
10.1371/journal.pone.0063699
PMCID: PMC3653846
PMID: 23691088

47. X. Gallego***, R.J. Cox, J.R. Laughlin, J.A. Stitzel, **M.A. Ehringer**. (2013) Alternative CHRNA4 3'-UTRs Mediate the Allelic Effects of SNP rs1948 on Gene Expression. *PLoS One*. May 14;8(5):e63699. PMC3653846

DOI: 10.1111/gbb.12021
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53. E. Duffy, Luanne Hale, J. Ward, K. Brown, A. Kwilas, D. Frank, L. Saba, R. Bachtell, **M.A. Ehringer.** (2023) Characterization of the gut microbiome and oxycodone use disorder phenotypes in select rat strains of the Hybrid Rat Diversity Panel. 30th Annual Meeting of the Psychoneuroimmunology Research Society. Poster #3.
52. E. Duffy, L. Hale, J. Ward, K. Brown, A. Kwilas, D. Frank, L. Saba, R. Bachtell, **M.A. Ehringer.** (2023) Characterization of the gut microbiome and oxycodone use disorder phenotypes in select rat strains of the Hybrid Rat Diversity Panel. 24th Annual Meeting of the International Behavioural and Neural Genetics Society. Poster #7.
51. E. Duffy, L. Hale, K. Brown, A. Kwilas, L. Saba, **M.A. Ehringer**, R. Bachtell. (2023) Characterization of thermal and mechanical sensitivity in select strains of the Hybrid Rat Diversity Panel. 2023 NIDA Genetics and Epigenetics Cross-Cutting Research Team Meeting. Poster #30.

50. E. Duffy, L. Hale, J. Ward, K. Brown, A. Kwilas, D.N. Frank, L. Saba, R. Bachtell, **M.A. Ehringer**. (2023) Characterization of the gut microbiome and oxycodone use disorder phenotypes in select rat strains of the Hybrid Rat Diversity Panel. 3rd Annual Front Range Microbiome Symposium. Poster #17.

2022

49. E.A. Mehrhoff, W.C. Booher, J. Hutchinson, G. Schumacher, C. Borski, C.A. Lowry, C. Hoeffler, **M.A. Ehringer**. (2022) Diazepam effects on anxiety-related defensive behavior of High and Low open-field activity inbred mouse strains. 23rd Annual Meeting of the International Behavioural and Neural Genetics Society. Poster #28.

48. E.A. Mehrhoff, M. Bower, L.J. Bunch, N. Fowler, E. Yang, J. Verner, C. Aki, L. Hendricks, H. Lee, A. Funke, M. Branney, **M.A. Ehringer**. (2022) Sensitivity and Tolerance to Alcohol in GCKR Human SNP rs1260326 (P446L) in a Mouse Model of Alcohol Behaviors and Metabolism. Front Range Neuroscience Group 2022. Poster #30.

47. E. Duffy, L. Hale, L. Hall, K. Brown, A. Kwilas, L. Saba, **M.A. Ehringer**, R. Bachtell. (2022) Characterization of oxycodone use disorder phenotypes in select rat strains of the Hybrid Rat Diversity Panel. 23rd Annual Meeting of the International Behavioural and Neural Genetics Society. Poster #38.

2021

46. P.N. Romero Villela, R. Border, M.C. Keller, L.M. Evans, **M.A. Ehringer**. (2021) A SNP-by-gene interaction analysis of rs16969968 and genome-wide loci on cigarettes per day in the UK Biobank. 22nd Annual Meeting of the International Behavioural and Neural Genetics Society. Poster #43.

45. L.C. Hall, K.T. Brown, D. Foster, W. Booher, L. Saba, R.K. Bachtell, **M.A. Ehringer**. (2021) Differential gene expression responses to oxycodone self-administration in the amygdala and prefrontal cortex of inbred rat strains. 22nd Annual Meeting of the International Behavioural and Neural Genetics Society. *Selected talk.

44. W.C. Booher, L.A. Vanderlinden, L.A. Hall, C.A. Lowry, L.M. Saba, **M.A. Ehringer**. (2021) Hippocampal RNA sequencing in mice selectively bred for High and Low Activity. 22nd Annual Meeting of the International Behavioural and Neural Genetics Society. *Selected talk.

43. M.E. Bower, L. Saba, M.C. Keller, J.A. Stitzel, C. Hoeffler, J.K. Hewitt, **M.A. Ehringer**. (2021) Gene Report Cards - Integrative tool to summarize gene information for nicotine behaviors. 22nd Annual Meeting of the International Behavioural and Neural Genetics Society. Poster #19.

42. **M.A. Ehringer**, L. Hall, K.T. Brown, D. Foster, W. Booher, L. Saba, R.K. Bachtell. (2021) Differential gene expression responses to oxycodone self-administration in the amygdala and prefrontal cortex of inbred rat strains. NIDA Genetics and Epigenetics Cross-Cutting Research Team Meeting. (virtual)

2020

41. P.N. Romero Villela, R. Border, M.C. Keller, L.M. Evans, **M.A. Ehringer**. (2020) No significant interaction between rs16969968 and genome-wide loci to predict cigarettes per day in the UK Biobank. Proceedings, 50th Annual meeting of the Behavior Genetics Association. *Behavior Genetics*, 50:477.

40. W.C. Booher, A.L. Thomas, L.A. Hall, G.J. Reyes, M.A. **Ehringer** (2020) Alcohol related behaviors in mice selectively bred for high and low activity. Proceedings, 50th Annual meeting of the Behavior Genetics Association. *Behavior Genetics*, 50:443-444.

39. S.M.C. Colbert, S. Funkhouser, E.C. Johnson, **M. Ehringer**, L. Evans (2020) Differential shared genetic influences of anxiety with problematic alcohol use compared to alcohol consumption. Proceedings, 50th Annual meeting of the Behavior Genetics Association. *Behavior Genetics*, 50:448.

2018

38. E. Elliott, W.C. Booher, **M.A. Ehringer** (2018) Alcohol-Related Behaviors in Mice Selected for High and Low Activity. Annual Biomedical Research Conference for Minority Students. Oral Presentation #36.

37. **M.A. Ehringer**, M.S. Powers, L.M. Evans, J.C. DeFries (2018) Whole genome sequencing of replicate inbred strains of mice selected for high and low open-field activity. 20th Annual Meeting of the International Behavioural and Neural Genetics Society. *Selected talk
36. W.C. Booher, M.S. Powers, X. Gallego, **M.A. Ehringer** (2018) AAV-Mediated miR-138 Injections into the Medial Habenula of Mice Reduces Nicotine Consumption. 20th Annual Meeting of the International Behavioural and Neural Genetics Society. Poster #62
- 2017** 35. M.S. Powers, H.C. O'Neill, J.A. Stitzel, **M.A. Ehringer**. (2017) Examining the interaction between *in utero* nicotine exposure and the D397N CHRNA5 nicotinic acetylcholine polymorphism (rs16969968) on alcohol intake in mice. 19th Annual Meeting of the International Behavioural and Neural Genetics Society.
- 2016** 34. E. Johnson, W. Melroy, R. Border, M. Keller, **M. Ehringer**. (2016) Examining 25 class schizophrenia candidate genes in the context of GWAS data – evidence for relevance? 18th Annual Meeting of the International Behavioural and Neural Genetics Society.
33. M.S. Powers, X. Gallego, **M.A. Ehringer**. (2016) Profiling differential expression of miRNA in the prefrontal cortex of tobacco smokers vs. non-smokers. 18th Annual Meeting of the International Behavioural and Neural Genetics Society.
32. S. Belimezova, X.G. Gallego, J. Miyamoto-Ditmon, J.A. Stitzel, **M.A. Ehringer**. (2016) Functional in vitro studies within CHRNA5-CHRNA3-CHRNA4 gene cluster on Chr15q24-25.1. 18th Annual Meeting of the International Behavioural and Neural Genetics Society.
- 2014** 31. T.M. Darlington, R.D. McCarthy, R.J. Cox, J. Miyamoto-Ditmon, **M.A. Ehringer**. (2014) Voluntary exercise reduces voluntary consumption of ethanol in mice: Identification of candidate genes through striatal gene expression profiling. 16th Annual Meeting of the International Behavioural and Neural Genetics Society. Presented in a selected symposium, p. 37 of program.
30. H.M. Kamens, R.P. Corley, P.A. Richmond, M.B. McQueen, M.C. Stallings, C. Hopfer, J. Stitzel, S.A. Brown, J.K. Hewitt, R.D. Dowell, **M.A. Ehringer**. (2014) Rare variants in the CHRNA6/CHRNA3 gene region are associated with dependence vulnerability. 16th Annual Meeting of the International Behavioural and Neural Genetics Society.
29. W.E. Melroy, M.A. Simonson, J. Hokanson, S. Lutz, B. Frederiksen, **M.A. Ehringer**. (2014) Examination of the involvement of cholinergic-associated genes in nicotine behaviors in European and African Americans. 16th Annual Meeting of the International Behavioural and Neural Genetics Society.
28. **M.A. Ehringer**, T. Darlington, X. Gallego. (2014) Using a mouse model to study common neurobiological effects of alcohol and exercise. Society for Behavioral Medicine Annual Meeting. Program Book SY35, p.56.
27. T.D. McClure-Begley, K.L. Stone, **M.A. Ehringer**, J. Linstrom, I. Esterlis, M.R. Picciotto. (2014) A proteomic approach to identify $\beta 2^*$ nicotinic acetylcholine receptor interacting proteins in human temporal cortex from individuals with mood disorders. Society for Research on Nicotine and Tobacco Abstract Book POS2-37, p.142.
- 2013** 26. **M.A. Ehringer**, H.M. Kamens, R.P. Corley, M. Simonson, A. Poole, P. Richmond, J.A. Stitzel, R. Dowell, K. Krauter, M.B. McQueen, M.C. Stallings, C. Hopfer, T. Crowley, J.K. Hewitt. (2013) Behavioral Disinhibition: Sequencing *CHRN* genes in a selected sample to identify novel variants. *Alcohol Clin Exp Res*. 37(S2), 256A.
25. T.M. Darlington, **M.A. Ehringer**. (2013) Whole transcriptome analysis of wheel running and

alcohol behaviors in mice. 15th Annual Meeting of the International Behavioural and Neural Genetics Society, Leuven, Belgium, Poster #9.

24. X. Gallego, R.J. Cox, **M.A. Ehringer**. (2013) Bdnf expression in response to alcohol consumption and voluntary exercise in adolescent mice. 15th Annual Meeting of the International Behavioural and Neural Genetics Society, Leuven, Belgium, Poster #16.

23. W.E. Melroy, M. Simonson, M.B. McQueen, **M.A. Ehringer**. (2013) Cholinergic-associated genes: A principal components analysis of gene expression patterns. 15th Annual Meeting of the International Behavioural and Neural Genetics Society, Leuven, Belgium, Poster #32.

22. H.M. Kamens, J.H. Miyamoto, J.A. Stitzel, **M.A. Ehringer**. (2013) Genetic variation upstream of *CHRNA3* influences gene expression. Society for Research on Nicotine and Tobacco Abstract Book PA8-2, p.44.

21. B. Frederiksen, S. Lutz, G.L. Kinney, J.E. Hokanson, M.H. Cho, P.J. Castaldi, M.L. McDonald, D.L. DeMeo, C.P. Hersh, E.K. Silverman, M. Parker, T.H. Beaty, B.J. Make, D. Curran-Everett, J.D. Crapo, S.A. Santorico, **M.A. Ehringer**, M.G. Foreman, C. Lange. (2013) Genome-wide association study of nicotine dependence in COPD Gene. Society for Research on Nicotine and Tobacco Abstract Book PA3-1, p.37.

20. X. Gallego, R.J. Cox, J.R. Laughlin, J.A. Stitzel, **M.A. Ehringer**. (2013) The allelic effects of SNP rs1948, associated with early nicotine and alcohol use, are 3'-UTR-dependent. Society for Research on Nicotine and Tobacco Abstract Book PA8-3, p.44.

2012

19. **M.A. Ehringer**, H.M. Kamens, S.H. Stephens, A.V. Flora, X. Gallego, C. Zambrano, J.A. Stitzel. (2012) Role of *CHRNA3* genes in alcohol and tobacco co-morbidity: Human and molecular genetic studies. International Society for Biomedical Research on Alcoholism Abstract Book, S297.

18. T.M. Darlington, J.D. Segall, R.A. Rodman, **M.A. Ehringer**. (2012) Changes in hippocampal Bdnf expression due to voluntary ethanol consumption and voluntary exercise in mice. *Genes Brain Behav* 11(4): 479.

17. A.V. Flora, C.A. Zambrano, E.M. Funk, J.A. Stitzel, **M.A. Ehringer**. (2012) Human *CHRNA3/B4* intergenic single-nucleotide polymorphism (SNP) rs8023462 alters gene expression *in vitro*. *Genes Brain Behav* 11(4): 481.

16. X. Gallego, R.J. Cox, A.V. Flora, J.A. Stitzel, **M.A. Ehringer**. (2012) The SNP rs1948, associated with early nicotine and alcohol use, may alter the expression of the *CHRNA5/A3/B4* cluster of genes. *Genes Brain Behav* 11(4): 482.

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14. W.E. Melroy, S.H. Stephens, J. Sakai, M.B. McQueen, R.P. Corley, M.C. Stallings, T.J. Crowley, C.J. Hopfer, K.S. Krauter, S. Brown, J.K. Hewitt, **M.A. Ehringer**. (2012) Examination of SNPs in *GABRA2* in a longitudinal sample for alcohol abuse and dependence. *Genes Brain Behav* 11(4): 490.

13. H.M. Kamens, A. Poole, R.P. Corley, M.B. McQueen, M.C. Stallings, C. Hopfer, J. Stitzel, J.K. Hewitt, R.D. Dowell, **M.A. Ehringer**. (2012) Sequencing nicotinic acetylcholine receptor subunits for association with dependence vulnerability. Society for Research on Nicotine and Tobacco, Abstract Book PA17-1, p.38.

2011

12. H.M. Kamens, R.P. Corley, N.R. Hoft, M.B. McQueen, M.C. Stallings, S.J. Brown, T.J. Crowley, C.J. Hopfer, J.K. Hewitt, **M.A. Ehringer**. (2011) The role of *CHRNA4* and *CHRNA2* in alcohol and nicotine behaviors. Proceedings, 13th Annual Meeting of the International Behavioural and Neural

11. H.M. Kamens, M.B. McQueen, R.P. Corley, M.C. Stallings, J.K. Hewitt, and **M.A. Ehringer**. (2011) Association of the CHRNA2 gene and DSM-IV nicotine dependence symptoms. Society for Research on Nicotine and Tobacco, *Abstract Book NIPA-4*, p.43.

10. A.V. Flora, C. Zambrano, E.M. Funk, J. Miyamoto, J.A. Stitzel, and **M. A. Ehringer**. (2011) Functional analysis of SNPs in the intergenic region between CHRNA3 and CHRNA4. Society for Research on Nicotine and Tobacco, *Abstract book SYM5B*, p.9.

- 2010**
9. **M.A. Ehringer**, and N.R. Hoft. (2010) The role of CHRNA6 and CHRNA3 genes in tobacco and alcohol behaviors – Human molecular genetics. Society for Research on Nicotine and Tobacco, *Abstract book SYM1E*, p. 2.
8. **M.A. Ehringer**, E.M. Funk, N.R. Hoft, J.A. Stitzel, and S.H. Stephens. (2010) The role of CHRNA5/A3/B4 in early disinhibitory behaviors – Human molecular genetics. Society for Research on Nicotine and Tobacco, *Abstract book SYM5B*, p. 6.
7. **M.A. Ehringer**, T. Darlington, and N.R. Hoft. (2010) Gene expression studies of alcohol, wheel running behaviors, and possible interactions. *Alcohol Clin Exp Res* 34(6):246A.
6. **M.A. Ehringer**, N.R. Hoft, and J. Godfrey. (2010) The effects of voluntary wheel-running on alcohol consumption: Common responses across different genetic strains of mice. *Genes, Brain, and Behavior* 9(4):421.
- 2009**
5. **M.A. Ehringer**, N.R. Hoft, and L. Vidable. (2009) The role of *Chrna6* and *Chrna3* genes in alcohol behaviors – human, molecular, and mouse genetics. Proceedings, 11th Annual Meeting of the International Behavioural and Neural Genetics Society, Dresden, Germany
4. G. Lubke and **M. Ehringer**. (2009) The *CHRNA5/A3/B4* gene cluster and tobacco, alcohol and cannabis initiation: Replication and new findings using mixture analysis. Proceedings, 39th Annual Meeting of the Behavior Genetics Association, Minneapolis, MN
- 2008**
3. **M.A. Ehringer**, I.R. Schlaepfer, and N.R. Hoft. (2008) Neuronal nicotinic receptor genes and associations with smoking and alcohol behaviors. Proceedings, 38th Annual Meeting of the Behavior Genetics Association, Louisville, KY
2. **M.A. Ehringer**, N.R. Hoft, and I.R. Schlaepfer. (2008) Human studies of neuronal nicotinic receptor genes and their role in the co-morbidity of alcohol and nicotine dependence. Proceedings, 10th Annual Meeting of the International Behavioural and Neural Genetics Society, Portland, OR
- 2007**
1. B.C. Haberstick, M. LaBorde, M.B. McQueen, and **M.A. Ehringer**. (2007) Is the CHRNA3 gene associated with nicotine behaviors? Proceedings, 37th Annual Meeting of the Behavior Genetics Association, Amsterdam, The Netherlands

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- 2019**
52. E.E. Elliott*, W.C. Booher**, **M.A. Ehringer** (2019) Alcohol-Related Behaviors in Strains of Mice Selected for High and Low Open-Field Activity. *Alcohol Clin Exp Res*. 43, 85A.

- 2017** 51. M.S. Powers, K.O. Dykstal, J.A. Stitzel, **M.A. Ehringer** (2017) Differences in acute locomotor activation to alcohol in D397N mice, A model of the human CHRNA5 nicotinic acetylcholine polymorphism (rs16969968). *Alcohol Clin Exp Res.* 41(S1), 19A.
50. W.C. Booher, B.T. Gallageher, K.R. Burrow, **M.A. Ehringer** (2017) Hedonic substitution of voluntary exercise and voluntary ethanol consumption in C3H and 129S mice. *Alcohol Clin Exp Res.* 41(S1), 116A
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- 2014** 48. X. Gallego, R.J. Cox, E. Funk, R.A. Foster, **M.A. Ehringer**. (2014) Voluntary exercise decreases ethanol preference and consumption in C57BL/6J adolescent mice: Sex differences and hippocampal BDNF expression. *Alcohol Clin Exp Res.* 38(S1), 98A
47. H.M. Kamens, M.B. McQueen, R.P. Corley, M.C. Stallings, J.K. Hewitt, **M.A. Ehringer**. (2014) Association of CHRNA4 polymorphisms and alcohol consumption in Hispanic subjects. *Alcohol Clin Exp Res.* 38(S1), 220A.
46. W.E. Melroy, M.A. Simonson, **M.A. Ehringer**. (2014) Examination of cholinergic associated genes in alcohol dependence. *Alcohol Clin Exp Res.* 38(S1), 222A.
- 2013** 45. H.M Kamens, R.J. Cox, **M.A. Ehringer**. (2013) The *Chrn4* gene does not modulate ethanol consumption. *Alcohol Clin Exp Res.* 37(S2), 69A.
44. W.E. Melroy, M. Simonson, M.B. McQueen, **M.A. Ehringer**. (2013) Examination of cholinergic associated genes in underlying pathways of addiction. *Alcohol Clin Exp Res.* 37(S2), 66A.
- 2012** 43. H.M. Kamens, R.J. Cox, R.D. McCarthy, J.H. Miyamoto, **M.A. Ehringer**. (2012) The *Chrn4* gene does not modulate ethanol behaviors. *Alcohol Clin Exp Res* 36(s1): 178A.
42. W.E. Melroy, C. Vadasz, M.B. McQueen, R.P. Corley, M.C. Stallings, T.J. Crowley, C.J. Hopfer, K.S. Krauter, J.K. Hewitt, **M.A. Ehringer**. (2012) Variation in *GRM7* is associated with alcohol consumption in a family-based analysis. *Alcohol Clin Exp Res* 36(s1): 253A.
41. T.M. Darlington, L. Quinones-Davila, **M.A. Ehringer**. (2012) Changes in mRNA expression of *Drd1a* and *Slc18A2* due to voluntary drinking, but not running, in mice. *Alcohol Clin Exp Res* 36(s1): 263A.
- 2011** 40. S. Stephens, N. Hoft, S. Hartz, N. Saccone, L. Bierut, **M.A. Ehringer**. (2011) Unique loci in the CHRNA5/CHRNA3/CHRNA4 gene cluster are associated with age of regular smoking. *World Congress of Psychiatric Genetics Program Book*. PP-154, p. 62.
39. H.M. Kamens, R.J. Cox, **M.A. Ehringer**. (2011) The *Chrna6* and *Chrn3* genes do not modulate ethanol consumption. *Alcohol Clin Exp Res* 35(6): 73A.
38. W.E. Melroy, S.H. Stephens, M.B. McQueen, R.C. Corley, M.C. Stallings, T.J. Crowley, C.J. Hopfer, K.S. Krauter, J.K. Hewitt, **M.A. Ehringer**. (2011) Examination of SNPs in the GABRA2 gene with alcohol behaviors in a young adult sample. *Alcohol Clin Exp Res* 35(6): 132A
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- 2004 14. B.C. Haberstick, D.S. Timberlake, J.M. Lessem, C. Hopfer, A. Smolen, **M. Ehringer**, & J.K. Hewitt. (2004). Genetic and candidate gene analysis of nicotine dependence in the add health sample. *Behavior Genetics* 34, 643.
13. C. Hopfer, D. Timberlake, B. Haberstick, J. Lessem, **M. Ehringer**, A. Smolen, & J. Hewitt. (2004). Genetic influences on quantity of alcohol consumed by adolescents and young adults. *Behavior Genetics* 34, 645.
- 2006 12. I. Schlaepfer, A. Collins, R. Corley, T. Crowley, J. Hewitt, C. Hopfer, K. Krauter, J. Lessem, S. Rhee, M. Stallings, S. Young, J. Zeiger, & **M. Ehringer**. (2006) The CHRNA5/A3/B4 gene cluster variability as an important determinant of alcohol and tobacco initiation in young adults. *AJHG Abstract Book #1606*, p.300.
11. D.S. Timberlake, B.C. Haberstick, J.M. Lessem, C. Hopfer, A. Smolen, **M.A. Ehringer**, & J.K. Hewitt. (2004) Heritability of smoking behavior and associations with dopaminergic polymorphisms in the National Longitudinal Study of Adolescent Health. *Behavior Genetics* 34, 661-662.
10. **M.A. Ehringer**, C. Hopfer, S. Purcell, S. Young, R. Corley, M. Stallings, S.H. Rhee, A. Smolen, K. Krauter, T. Crowley, and J.K. Hewitt. (2004) Haplotype analysis of SNPs in the CNR1 gene and association with progression in Marijuana Use. *AJHG Abstract Book #2252* p. 409
- 2003 9. **M.A. Ehringer**, S. Young, R. Corley, M. Stallings, A.C. Collins, J.K. Hewitt. (2003) Investigation of the CHRNA4 gene for a possible role in tobacco use and addiction. *AJHG* 73(5): 523
- 2001 8. **M.A. Ehringer**, J. Thompson, O. Conroy, T.L. Smith, D. Goldman, M. Schuckit, J.M. Sikela. (2001) Human Alcoholism Studies of Genes Identified through Mouse QTL Analysis. *Alcohol Clin Exp Res* 25: 68A.
- 2000 7. E.M. Maclaren, **M. Ehringer**, A. Kaiser, F. Yang, B. Soriano, B. Bennett, T.E. Johnson, and J.M. Sikela. Genomic Approaches to the Identification of Gene Coding Region Differences in QTL Candidate Genes for Alcohol Sensitivity. *Alcohol Clin Exp Res* 25: 117A.
6. **M.A. Ehringer**, J. Thompson, O. Conroy, Y. Xu, F. Yang, J. Canniff, M. Beeson, L. Gordon, B. Bennett, D. Goldman, M. Schuckit, T.E. Johnson, J.M. Sikela. (2000) Progress toward Gene Identification for Alcohol-Related Phenotypes. *AJHG* 67:329, 1828A.
5. **M. Ehringer**, J. Thompson, O. Conroy, Y. Xu, F. Yang, J. Canniff, M. Beeson, L. Gordon, B. Bennett, T.E. Johnson, and J.M. Sikela. (2000) High-Throughput Sequencing of Candidate Genes for Alcohol-Related QTLs. *Alcohol Clin Exp Res* 24: 98A.
4. Xu. Y., **M. Ehringer**, F. Yang, and J.M. Sikela. (2000) A Global Comparison of Brain Gene Expression Patterns between ILS/ISS Mice. *Alcohol Clin Exp Res* 24: 99A.
- 1999 3. **M. Ehringer**, J. Thompson, Y. Xu, F. Yang, M. Beeson, L. Gordon, B. Bennett, T.E. Johnson, and J.M. Sikela. (1999) High-Throughput Sequencing of Candidate Genes for Alcohol-Related QTLs. *Alcohol Clin Exp Res* 23: 105A.

- 1999** 2. Xu. Y, **M. Ehringer**, and J.M. Sikela. (1999) Comparison of Gene Expression Profiles between ILS and ISS Mice by Gene Array Hybridization. *Alcohol Clin Exp Res* 23: 106A.
- 1996** 1. **M.A. Ehringer**, D.N. Frank, and N.R. Pace. (1996) A Phylogenetic Approach to Refinement of Eucaryl RNase P RNA Secondary Structure. *RNA Society Meeting Abstract Book*.

BOOK CHAPTERS

- 2011** H.M. Kamens, S.H. Stephens, and **M.A. Ehringer**. 2011. "Human genetic studies of *CHRN* genes" in "Pharmacology of Nicotinic Acetylcholine Receptors from the Basic and Therapeutic Perspectives", H.R. Arias, editor, Research Signpost.
- 2010** N.R. Hoft, J.T. Sakai, and **M.A. Ehringer**. 2010 "Tobacco and Alcohol Use Behaviors" in "Handbook of Genomics and the Family", K.P. Tercyak, editor, Springer.

INTERNATIONAL COLLOQUIA/SYMPOSIUM PRESENTATIONS

- 2023** **M.A. Ehringer** (2023) Using the Rat Hybrid Diversity Panel to Identify Factors Associated with Oxycodone-Related Behaviors. Department of Pharmacology, University of Toronto, Toronto, Canada
- 2019** **M.A. Ehringer** (2019) Genetic and sex differences in the effect of wheel-running on voluntary alcohol consumption in mice. Winter Conference on Brain Research, Aspen, CO
- 2018** **M.A. Ehringer**, M.S. Powers, L.M. Evans, J.C. DeFries (2018) Whole genome sequencing of replicate inbred strains of mice selected for high and low open-field activity. 20th Annual Meeting of the International Behavioural and Neural Genetics Society. *Selected talk
- 2015** **M.A. Ehringer**. (2015) Genetics of Smoking – Biology, Biomarkers, and Health Impact. Speaker and co-chair at Pre-Conference Genetics Workshop at the Annual Meeting of the Society for Research on Nicotine and Tobacco. Philadelphia, PA
- 2014** **M.A. Ehringer**. (2014) Molecular Genetics of Nicotinic Receptor Genes. 2nd Annual Meeting of the Molecular Psychiatry Association. Presented in an invited symposium.
- T.M. Darlington, R.D. McCarthy, R.J. Cox, J. Miyamoto-Ditmon, **M.A. Ehringer**. (2014) Voluntary exercise reduces voluntary consumption of ethanol in mice: Identification of candidate genes through striatal gene expression profiling. 16th Annual Meeting of the International Behavioural and Neural Genetics Society. Presented in a selected symposium.
- M.A. Ehringer**, T. Darlington, X. Gallego. (2014) Using a mouse model to study common neurobiological effects of alcohol and exercise. Society for Behavioral Medicine Annual Meeting. Program Book SY35, p.56.
- M.A. Ehringer**. (2014) Genetics of Smoking – Findings, Function, and Future Frontiers. Invited speaker at Pre-Conference Genetics Workshop at the Annual Meeting of the Society for Research on Nicotine and Tobacco. Seattle, WA
- 2013** **M.A. Ehringer**, H.M. Kamens, R.P. Corley, M. Simonson, A. Poole, P. Richmond, J.A. Stitzel, R. Dowell, K. Krauter, M.B. McQueen, M.C. Stallings, C. Hopfer, T. Crowley, J.K. Hewitt. (2013) Behavioral Disinhibition: Sequencing *CHRN* genes in a selected sample to identify novel variants. *Alcohol Clin Exp Res*. 37(S2), 256A. Orlando, FL
- 2012** H.M. Kamens, A. Poole, R.P. Corley, M.B. McQueen, M.C. Stallings, C. Hopfer, J. Stitzel, J.K. Hewitt, R.D. Dowell, **M.A. Ehringer**. (2012) Sequencing nicotinic acetylcholine receptor subunits for association with dependence vulnerability. Society for Research on Nicotine and Tobacco, Houston, TX, USA.

- 2010** **Ehringer, M.A.** and Hoft N.R. (2010) The role of *CHRNA6* and *CHRNA3* genes in tobacco and alcohol behaviors – Human molecular genetics. 16th Annual Meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD
- Ehringer, M.A.**, Funk, E.M., Hoft, N.R., Stitzel, J.A., and Stephens, S.H. (2010) The role of *CHRNA5/A3/B4* in early disinhibitory behaviors – Human molecular genetics. 16th Annual Meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD
- Ehringer, M.A.**, Hoft, N.R., and Godfrey, J. (2010) The effects of voluntary wheel-running on alcohol consumption: Common responses across different genetic strains of mice. 12th Annual Meeting of the International Behavioural and Neural Genetics Society, Halifax, Nova Scotia, Canada
- 2009** **Ehringer, M.A.** (2009) “The role of *CHRNA6* and *CHRNA3* in tobacco and alcohol behaviors – Human, molecular, and mouse genetics” Translational Nicotine Research Meeting, Düsseldorf, Germany
- Ehringer, M.A.**, Hoft, N.R., and Vidale, L. (2009) “The role of *Chrna6* and *Chrna3* genes in alcohol behaviors – human, molecular, and mouse genetics” 11th Annual Meeting of the International Behavioural and Neural Genetics Society, Dresden, Germany
- 2008** **Ehringer, M.A.**, Schlaepfer, I.R., and Hoft, N.R. (2008) “Neuronal nicotinic receptor genes and associations with smoking and alcohol behaviors” 38th Annual Meeting of the Behavior Genetics Association, Louisville, KY
- Ehringer, M.A.** (2008) “Human studies of neuronal nicotinic receptor genes and their role in the co-morbidity of alcohol and nicotine dependence” 10th Annual Meeting of the International Behavioural and Neural Genetics Society, Portland, OR
- 2007** **Ehringer, M.A.** (2007) “Is the *CHRNA3* gene associated with nicotine behaviors?” 37th Annual Meeting of the Behavior Genetics Association, Amsterdam, The Netherlands
- 2006** **Ehringer, M.A.** (2006) “Neuronal nicotinic receptor subunits as candidate genes for alcohol and tobacco phenotypes” Department of Psychiatry and Genome Research Center, University of Hong Kong, Hong Kong, China

NATIONAL COLLOQUIA/SEMINARS

- 2023** **Ehringer, M.A.** (2023) “Genetics of Anxiety and Addiction: Integration of Human and Rodent Studies” Department of Biomedical Sciences, Florida State University, Tallahassee, FL
- 2018** **Ehringer, M.A.** (2018) “Molecular Genetics of Nicotinic Receptor Genes” Special Joint Symposium of the College on Problems of Drug Dependence (CPDD) and the Research Society on Alcoholism (RSA), San Diego, CA
- 2016** **Ehringer, M.A.** (2016) “Rare Variant Analysis and Follow-Up Functional Studies” Invited by organizer Dr. Elissa Chelser, Short Course on the Genetics of Addiction, Jackson Laboratory, Bar Harbor, ME
- Ehringer, M.A.** (2016) “Booze, Butts, and Genes: Nicotinic Receptors in Alcohol and Tobacco Behaviors” Invited by Dean of Research and Graduate Studies (Dr. Luis Cubano), Universidad Central del Caribe, Puerto Rico
- 2014** **Ehringer, M.A.**, Darlington, T., Gallego, X. (2014) “Using a mouse model to study common neurobiological effects of alcohol and exercise” Society for Behavioral Medicine Annual Meeting. Program Book SY35, p.56. Philadelphia, PA
- 2010** **Ehringer, M.A.**, Darlington, T. and Hoft, N.R. (2010) “Gene expression studies of alcohol, wheel running behaviors, and possible interactions” 33rd Annual Meeting of the Research Society on Alcoholism, San Antonio, TX

- 2009** **Ehringer, M.A.** (2009) "Of Mice and Men: A translational study of nicotinic receptor genes and drug behaviors" Department of Biology, IUPUI, Indianapolis, IN
- Ehringer, M.A.** (2009) "Of Mice and Men: A translational study of nicotinic receptor genes and drug behaviors" Department of Psychiatry, IUPUI, Indianapolis, IN
- 2008** **Ehringer, M.A.** (2008) "Of Mice and Men: A translational study of nicotinic receptor genes and drug behaviors" Department of Psychology, IUPUI, Indianapolis, IN
- 2007** **Ehringer, M.A.** (2007) "Neuronal Nicotinic Receptor Subunits as Candidate Genes for Alcohol and Tobacco Phenotypes" COGEND working group, Department of Psychiatry, Washington University School of Medicine, St. Louis, MO
- 1999** **Ehringer, M.A.** (1999) "Progress Toward Gene Identification for Alcohol-Related Phenotypes" Conference for students and postdoctoral fellows, hosted by the Research Society on Alcoholism, Indianapolis, IN
- 1993** **Ehringer, M.A.** (1993) "Using Photobiotin as a Nonradioactive Label for rRNA" Annual Meeting of Indiana Academy of Science

LOCAL COLLOQUIA/WORKSHOPS

- 2023** **Ehringer, M.A.** (2023) "Genetics of Addiction: Integration of Human and Rodent Studies", Neuroscience Seminar Series, University of Colorado School of Medicine, Aurora, CO
- 2016** **Ehringer, M.A.** (2016) "Genetics of Substance Use Behaviors: Mice and Men", Center for Innovation and Creativity (CINC) Tea, University of Colorado, Boulder, CO
- Ehringer, M.A.** (2016) "Booze, Butts, and Genes: Nicotinic Receptors in Drug Behaviors", Bioinformatics Supergroup meeting, University of Colorado, Boulder, CO
- 2015** **Ehringer, M.A.** (2015) "Booze, Butts, and Genes: Role of Nicotinic Receptors in Alcohol and Tobacco Behaviors" School of Biological Sciences, University of Northern Colorado, Greeley, CO
- 2014** **Ehringer, M.A.** (2014) "Booze, Butts, and Genes: Nicotinic Receptors" Department of Pharmacology, School of Medicine, University of Colorado Anschutz Medical Campus, Aurora, CO
- 2013** **Ehringer, M.A.** (2013) "Booze, Butts, and Genes: Nicotinic Receptors in Alcohol and Tobacco Behaviors" Department of Integrative Physiology, University of Colorado, Boulder, CO
- 2009** **Ehringer, M.A.** (2009) "Nicotinic receptor genes: Is there a connection between nicotine dependence and lung cancer?" University of Colorado Cancer Center, Lung/Head and Neck Cancer Seminar Series, Aurora, CO
- 2008** **Ehringer, M.A.** (2008) "A Mouse Model to Study the Effects of Exercise on Alcohol Consumption" Department of Integrative Physiology, University of Colorado, Boulder, CO
- 2007** **Ehringer, M.A.** (2007) "A Primer on Genetic Studies" Journal Club for the laboratory of Dr. Douglas Seals, Department of Integrative Physiology, University of Colorado, Boulder, CO
- Ehringer, M.A.** (2007) "Development of a mouse model to study genes regulated by alcohol consumption and voluntary wheel-running" Neuroscience Supergroup, University of Colorado, Boulder, CO (2007)
- Ehringer, M.A.** (2007) "Neuronal nicotinic receptor subunits as candidate genes for alcohol and tobacco phenotypes" Department of Integrative Physiology, University of Colorado, Boulder, CO

- 2006** **Ehringer, M.A.** (2006) "Neuronal nicotinic receptor subunits as candidate genes for alcohol and tobacco phenotypes" Human Medical Genetics Program, Fall Retreat, University of Colorado Health Sciences Center, Aurora, CO
- 2006** **Ehringer, M.A.** (2006) "C57 Mice Drink Less Alcohol When Given Access to a Running Wheel" Department of Integrative Physiology, University of Colorado, Boulder, CO
- 2005** **Ehringer, M.A.** (2005) "Evidence for Association Between the CNR1 Gene and Marijuana Dependence" Department of Integrative Physiology, University of Colorado, Boulder, CO
- 2003** **Ehringer, M.A.** (2003) "The Study of Candidate Genes in Mice and Humans: Using the Genomics Resources" Department of Integrative Physiology and the Institute for Behavioral Genetics, University of Colorado, Boulder, CO
- 2002** **Ehringer, M.A.** (2002) "The Study of Candidate Genes in Mice and Man: Using the Human Genomics Resources" Bioinformatics Supergroup, University of Colorado, Boulder, CO
- 2001** **Ehringer, M.A.** (2001) "Identification of Gene Coding Variants within Alcohol-Related QTLs" The Institute for Behavioral Genetics, University of Colorado, Boulder, CO

SYMPOSIUM TALKS SELECTED FOR MEETINGS AND PRESENTED BY TRAINEES

- 2021** W.C. Booher, L.A. Vanderlinden, L.A. Hall, C.A. Lowry, L.M. Saba, **M.A. Ehringer.** (2021) Hippocampal RNA sequencing in mice selectively bred for High and Low Activity. 22nd Annual Meeting of the International Behavioural and Neural Genetics Society. (selected talk presented by Winona Booher, PhD student)
- 2021** L.C. Hall, K.T. Brown, D. Foster, W. Booher, L. Saba, R.K. Bachtell, **M.A. Ehringer.** (2021) Differential gene expression responses to oxycodone self-administration in the amygdala and prefrontal cortex of inbred rat strains. 22nd Annual Meeting of the International Behavioural and Neural Genetics Society. (selected talk presented by Lucy Hall, M.S. student)
- 2019** W.C. Booher, E. Elliotte, A. Prakash, **M.A. Ehringer** (2019) Alcohol-related behaviors in mice selectively bred for High and Low Activity. 21st Annual Meeting of the International Behavioural and Neural Genetics Society, Edinburgh, United Kingdom (selected talk presented by Winona Booher, PhD candidate)
- 2013** H.M. Kamens, J.H. Miyamoto, J.A. Stitzel, **M.A. Ehringer.** (2013) Genetic variation upstream of *CHRNA3* influences gene expression. Society for Research on Nicotine and Tobacco Abstract Book PA8-2, p.44. Boston, MA (presented by Dr. Helen Kamens)
- 2013** X. Gallego, R.J. Cox, J.R. Laughlin, J.A. Stitzel, **M.A. Ehringer.** (2013) The allelic effects of SNP rs1948, associated with early nicotine and alcohol use, are 3-UTR-dependent. Society for Research on Nicotine and Tobacco Abstract Book PA8-3, p.44. Boston, MA (presented by Dr. Xavier Gallego)
- 2011** H.M. Kamens, R.P. Corley, N.R. Hoft, M.B. McQueen, M.C. Stallings, S.J. Brown, T.J. Crowley, C.J. Hopfer, J.K. Hewitt, **M.A. Ehringer.** (2011) The role of *CHRNA4* and *CHRNA2* in alcohol and nicotine behaviors. 13th Annual Meeting of the International Behavioural and Neural Genetics Society, Rome, Italy (presented by Dr. Helen Kamens)
- H.M. Kamens, M.B. McQueen, R.P. Corley, M.C. Stallings, J.K. Hewitt, and **M.A. Ehringer.** (2011) Association of the *CHRNA2* gene and DSM-IV nicotine dependence symptoms. 17th Annual Meeting of the Society for Research on Nicotine and Tobacco, Toronto, Ontario, Canada (presented by Dr. Helen Kamens)
- A.V. Flora, C. Zambrano, E.M. Funk, J. Miyamoto, J.A. Stitzel, and **M. A. Ehringer.** (2011) Functional analysis of SNPs in the intergenic region between *CHRNA3* and *CHRNA4*. 17th Annual Meeting of the Society for Research on Nicotine and Tobacco, Toronto, Ontario, Canada (presented by Dr. Amber Flora)

PROFESSIONAL CONSULTATION

2012-2017	Contributor for K23 DA033302 (PI: Bidwell, Cinnamon) “Deconstructing the Smoking and ADHD Comorbidity: A Multilevel Genetic Approach”, providing molecular and statistical genetics expertise for study of <i>CHRN</i> genes
2010-2011	Consultant for R01HD05722 (PI:Foshee, Vangie) “Genetic by Context Influence on Trajectories of Adolescent Health Risk Behaviors”
2008	Ad hoc consultant for the GENEVA study (Gene Environment Association Studies), part of the Genes, Environment and Health Initiative(GEI)
2008, 2008, 2016	Technology Consultant L.E.K. Consulting LLC, Boston, MA
2005	Research Consultant Faegre & Benson, Patent Lawyers Boulder, CO

PROFESSIONAL DEVELOPMENT AND LEADERSHIP TRAINING

2023	Academic Leadership Institute Workshops: Adapting Retention Practices to Support and Retain BIPOC Employees in PWIs (1 hour) Creating Spaces of Authenticity to Enhance Belonging Among Equity-Seeking Faculty at PWIs (1 hour) Implementing Best Practices with Students of Concern (1 hour) Holding a Coaching Conversation with Staff (1 hour) Responding to Bad Actors: Bystander Intervention Skills (1 hour) Bystander Intervention Skills (1 hour)
2023	STEM Routes Mentorship Training sessions (Three 2 hour sessions) as part of Intentional Mentorship Program for Native Graduate Students
2023	Academic Leaders Institute Mini-Conference – Topic: CU Undergraduate Retention: Understanding the Problem and What Academic Leaders Can Do (7 hours)
2023	University of Colorado – UndocuALLY Training (2 hours) to learn about issues relating to immigrants and immigration, maintaining confidentiality
2022	Academic Leaders Institute Workshops: Writing Compelling Chair’s Letters, Addressing the Needs of LGCTQIA Student, Performance Management Essentials for Academic Leaders
2022-2023	Faculty Leadership Institute – 10 monthly workshops – 2 hours each
2022	Academic Leaders Institute Mini-Conference – Topic: Leading for Wellbeing and Performance Challenging Times (7 hours)
2022	New Academic Leaders Orientation – 2 day workshop
2022	Difficult Dialogues: Making Mistakes, Making Amends – 1 hour workshop University of Colorado, Boulder, CO
2021	Crucial Accountability Workshop – 3 day training University of Colorado, Boulder, CO
2015	Annual Conference on Understanding Interventions that Broaden Participation in Research Careers, San Diego, CA

2014	Annual Conference on Understanding Interventions that Broaden Participation in Research Careers, Baltimore, MD
2013	International Workshop on Statistical Genetic Methods for Human Complex Traits: The Advanced Course, Boulder, CO
2011-2012	Sabbatical experience at Indiana University Purdue University Indianapolis School of Medicine in the laboratory of Dr. Howard Edenberg
2009	International Workshop on Statistical Genetics and Methodology of Twin and Family Studies: The Advanced Course, Boulder, CO
2008	Advanced Gene Mapping Course, Rockefeller University, New York, NY
2008	FBAT Short Course, 2-day intensive workshop, Boulder, CO
2006	LEAP follow-up lectures: Women, Inclivity, and Power: How to Achieve Personal Authority
2005	Mastering Personal Productivity, presented by Laura Stack
2004	Leadership Education for Advancement and Promotion (LEAP) 4-day intensive workshop, University of Colorado, Boulder
2003	Time Management Getting Your Research Funded
2000	QTL Workshop, sponsored by National Institute on Alcohol Abuse and Alcoholism The Genetics of Complex Disease, Prelude to the American Society of Human Genetics Meeting, Philadelphia, PA Thirteenth International Workshop on the Methodology of Twin and Family Studies, Introductory Course, Institute for Behavioral Genetics, University of Colorado, Boulder, Genetics Computer Group scientific software training, Denver, CO
1999	Genetics and Ethics Conference, Aspen, CO

TEACHING CONTRIBUTIONS

UNIVERSITY OF COLORADO, BOULDER, CO

UNDERGRADUATE COURSES

IPHY3280	Introduction to Data Science and Biostatistics with lab, 4 credits FA2021, 128 students FA2020, 89 students (course was dramatically updated)
IPHY2800	Introduction to Statistics with lab, 3 credits FA2019, 86 students FA2017, 86 students FA2016, 85 students FA2015, 60 students FA2014, 90 students FA2013, FA2012, SP2011, SP2009, FA2006 ~140 students each semester

IPHY3010	Undergraduate Teaching Assistant FA2021, FA2020, FA2019, FA2107, FA2016, FA2015, FA2014, FA2013, FA2012 Total Students: 2-4 students each semester
IPHY4860	Independent Study FA2021, SP2020, FA2019, SP2019, FA2018, SP2018, FA2017, SP2017, FA2016, SP2016, FA2015, SP2015, FA2014, SP2014, SU2012, SP2011, FA2011, SU2009, FA2009, SU2008, SU2007, FA2007, SU2006 Total students: 24 undergraduates
IPHY4870	Honors Thesis SP2017, SP2015, SP2008 Total students: 3
IPHY4930	Internship FA2017, SP2016 Total students: 2
IPHY2600	Introduction to Research Methods FA2005, FA2004 18 and 35 students

GRADUATE COURSES

IPHY5100	Colloquium in Integrative Physiology FA2023 – 25 students
IPHY6100	Proseminar in Behavioral Genetics FA2020, 6 students – lead instructor with Dr. Luke Evans
IPHY5262	Applications of Bioinformatics and Genomics FA2022, SP2017, SP2015, SP2013, FA2009, FA2007, SP2005, SP2004 Average 6-10 students each semester
IPHY5840	Independent Study Sponsor, Matthias Zunhammer, visiting student from University of Regensburg, Germany SP2008, FA2007
IPHY6830	Professional Skills for the Research Scientist SP2008, SP2009, FA2017, FA2023 Guest lecturer (~15 graduate students)
IPHY5800	Advanced Statistics and Research FA2008 Guest lecturer at 1 class ~15 graduate students
2004	Lecturer, Undergraduate Minority Summer Research Program through Alcohol Research Training program at UCHSC “The Study of Candidate Genes for Tobacco and Alcohol Problems: Using the Genomics Resources”
2002	Lecturer, IBG Core Course PSYC 5232 (Fall) “SNP bioinformatics/methods of detection and bioinformatics methods related to utilizing the Human Genome Project resources” Lecturer, Undergraduate Behavior Genetics PSYC 3102 (Spring) “Bioinformatics resources associated with the Human Genome Project” Lecturer, Graduate QTL course PSYC 5112 (Spring) “Mouse QTL/candidate gene studies and bioinformatics related to the Human Genome Project”

INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS, IN

2011	Guest lecture in graduate behavior genetics course in Department of Psychology
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COMMUNITY COLLEGE OF AURORA, AURORA, CO

2001	General Chemistry 111, Adjunct Instructor
2000	General Chemistry 111, Adjunct Instructor

INDIANA UNIVERSITY, BLOOMINGTON, IN

1994	Undergraduate Teaching Intern, Genetics L311 (spring, summer, & fall)
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1992-1995 Private tutor for student-athletes through the athletic department
Mathematics, Biology, Physics, and Chemistry

ADVISORY AND SUPERVISORY RESPONSIBILITIES

Junior Faculty Mentor

2023-present Susanna Molas, Faculty Fellow IBG
Department of Psychology and Neuroscience, University of Colorado, Boulder, CO

2018-present Luke Evans, Assistant Professor, Faculty Fellow IBG
Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO

2014-2017 Scott Vrieze, Assistant Professor, Faculty Fellow IBG
Department of Psychology, University of Colorado, Boulder, CO

2013-2021 Helen Kamens, Assistant Professor
Department of Biobehavioral Health, The Pennsylvania State University, University Park,
PA Research and Career Mentor

2013-2019 Naomi Friedman, Assistant Professor, Faculty Fellow IBG (currently Associate Professor)
Department of Psychology, University of Colorado, Boulder, CO

SUPERVISED TRAINEES (Primary Mentor) **UNIVERSITY OF COLORADO, BOULDER, CO**

FORMER POSTDOCTORAL FELLOWS

2014-2020 **Matthew Powers, Ph.D.**
Current position: Healthcare Research Analyst
NextHealth Technologies
Denver, CO

2010-2014 **Xavier Gallegos, Ph.D.**
Current position: Entrepreneur-in-Residence
Former Head of Innovation and Technology Transfer
Institut d' Investigació i Innovació Parc Taulí (I3PT)
Barcelona, Spain

2010-2012 **Amber Flora, Ph.D.**

2009-2013 **Helen Kamens, Ph.D.**
Current position: Associate Professor with tenure
The Pennsylvania State University
Department of Biobehavioral Health
University Park, PA

2008-2011 **Sarah Holly Stephens, Ph.D.**
Current position: Genomic Data Scientist and Lead Associate
Booz Allen Hamilton
McLean, VA

2006-2009 **Nicole Hoft, Ph.D.**
Senior Quantitative Analyst
Cargill, Minneapolis, MN

FOREIGN SCHOLAR TRAINEES

Summer 2019	Justine Lepagneul , Université Catholique de Lyon, Lyon, France
Summer 2014	Margaux Peschart d'Ambly , Université Catholique de Lyon, Lyon, France
Summer 2013	Omblin de Balathier Lantage , Université Catholique de Lyon, Lyon, France
2007-2008	Matthias Zunhammer , University of Regensburg, Germany

CURRENT GRADUATE TRAINEES

2022-present	Myra Bower , Integrative Physiology, Ph.D. Candidate
2020-present	Erika Mehrhoff , Integrative Physiology, Ph.D. candidate Eamonn Duffy , Integrative Physiology, Ph.D. candidate
2019-present	Pamela Romero Villela , Psychology and Neuroscience, Ph.D. candidate

FORMER GRADUATE TRAINEES

2019-2021	Logan Bunch , M.S. Integrative Physiology
2019-2021	Lucy Hall , B.A./M.S Integrative Physiology • 2021 - Won "Best Trainee Research Talk" at IBANGS Trainee symposium
2016-2021	Winona Booher , M.S. and Ph.D., Integrative Physiology Current position: Postdoctoral fellow Advisor: Dr. Richard Radcliffe University of Colorado School of Medicine Aurora, CO
2018-2020	Aimee Thomas , M.S. Integrative Physiology Currently a student at Stritch School of Medicine, Chicago, IL
2018-2020	Jakob Morawiec , M.S. Integrative Physiology Currently a student at Rocky Vista University College of Osteopathic Medicine
2012-2017	Sonya Belimezova , Ph.D. Integrative Physiology
2013-2016	Kristin Rasmus , Ph.D. Psychology and Neuroscience Current position: Marketing Team Invitae (Boulder office) San Francisco, CA
2010-2015	Whitney Melroy , Ph.D. Integrative Physiology Current position: Patent technical specialist Dentons US LLP San Diego, CA
2012-2014	Riley McCarthy , B.A./M.S. Integrative Physiology
2008-2012	Todd Darlington , Ph.D. Integrative Physiology
2005-2008	Isabel Schlaepfer , Ph.D. Integrative Physiology Current position: Assistant Professor Division of Medical Oncology University of Colorado Denver- School of Medicine Aurora, CO

CURRENT AND PAST UNDERGRADUATE TRAINEES

BURST = Bioscience Undergraduate Research Skills and Training Program
URAP = Undergraduate Research Assistantship Program
UROP = Undergraduate Research Opportunities Program
SMART = Summer Multicultural Access to Research Training
HHMI = Howard Hughes Medical Institute Biomedical Initiatives Program
INDST = Independent Study research for academic credit
SURF = Summer Undergraduate Research Funding
BSI = Biological Sciences Initiative Funding

2022-present	Caroline Aki, IPHY student (INDST) Luke Hendricks, IPHY student (INDST) Harriet Lee, IPHY student (INDST)
2022-2023	Matthew Branney, IPHY student (INDST) Anna Funke, IPHY student (INDST) James (Garrison) Verner (INDST)
2021-2023	Emma Yang, IPHY student (INDST, UROP) Nevin Fowler, IPHY student (INDST, UROP)
2021-2022	Greta Kumskis, IPHY student (INDST) Grace Schumacher, IPHY student (INDST, UROP) Julianna Hutchison, IPHY student (INDST)
2021	Shay Ware, IPHY student (INDST) China Dix, Loyola University New Orleans student (NIDA Summer Research Internship Program)
2020-2022	Myra Bower, The University of Tennessee-Knoxville (SMART)
2020 2019-2020	Julia Shooobe, IPHY student Katie Scanlon, IPHY student (INDST) Michaela Nelsen, IPHY student (INDST) Hanna Lavassani, IPHY student (INDST) Guillermo Reyes Martinez, IPHY student (INDST, UROP, BSI)
2019	Morgan Bauer, Rochester Institute of Technology (SMART)
2018-2020 2018-2019 2018 2017	Lucy Hall, IPHY student (INDST) Madison Paul, Neuroscience major (INDST) Eliza Elliotte, Hollins University (SMART) Eiley McCormick, IPHY student, Faculty sponsor for Internship on Spinal Chord Injury Recovery
2017-2018 2017-2019	Claire Kazen, IPHY student (Honors Thesis) Rachel Mahoney, MCDB student (BSI) Gabriel Villavicencio, IPHY student (INDST)
2017 2017-2018 2017	Marcus Ferrara, IPHY student (INDST) Drake Giese, IPHY student (INDST) Alyssa Johnson, Psychology/Neuroscience, Virginia Polytechnic Institute and State University (SMART) Brooke Gallagher, IPHY student (INDST)
2016-2017 2016	Kaylee Dykstal, IPHY student (INDST) Aliyah Bolton, Neuroscience & French Studies, Scripps College (SMART) Sasha Hill, IPHY student (Faculty sponsor for internship at dental office) Connor Brown, IPHY student, (INDST, UROP, Honors Thesis) Erik Debloois, MCDB student (INDST)
2015-2016	Kristin Allen, IPHY student (INDST, BURST, UROP)

	Kirsten Chun, IPHY student (INDST)
	Tyler Fox, IPHY student (INDST)
2015	Robin Hacker-Cary, IPHY student (PRACTICUM IN IPHY)
	Alissa DiMasi, undergraduate at Regis University (SMART)
2014-2015	Chris Klene, Independently Structured Major in Public Health (BURST)
	Kelsey Fitzgerald, IPHY student (INDST, Honors Thesis)
	Jordan Hood, IPHY student (INDST)
2014	Michael Melendez, undergraduate at University of Puerto Rico
	Christiana Vonu, Faculty sponsor for Internship on Spinal Chord Injury Recovery, IPHY student
	Eric Lenser, IPHY student
2012-2013	Marissa Soto, UC Denver undergraduate, course credit for PSYC
	Kasey Ro, IPHY student
2012	Rachel Foster, undergraduate at Mount Holyoke College (SMART)
2011-2012	Jason Segall, IPHY student (INDST)
2011-2012	Rebecca Rodman, IPHY student (INDST)
2011	Lymaris Quinones Davila, undergraduate at University of Puerto Rico (SMART)
2011-2012	Krista Johnson, IPHY student (INDST, HHMI)
2011	Ellen MacDonald, IPHY student (INDST)
2011-2014	Riley McCarthy, IPHY student (INDST)
2010-2011	Ryan Cox, IPHY student (INDST)
	Brian Wanner, IPHY student (INDST)
2009-2011	Maricarmen Stout, IPHY student (INDST)
2009-2010	Elizabeth Funk, IPHY student (INDST)
2008-2010	Beth Chitel, Psychology student (INDST)
2010	Coral Cabrera, undergraduate at University of Puerto Rico (SMART)
2009	Laura Rosado Maldonado, undergraduate at University of Puerto Rico (SMART)
	Nathaniel Edelman, undergraduate at Cornell University, summer intern
2008-2009	Tatiana Fofanova, EBIO and ANTH student
2008	Lucia Vidable, undergraduate at Emory University (SMART)
2007-2008	Stephen Faulkner, IPHY student (UROP, INDST)
	Jessica Godfrey, IPHY student (INDST, Honors Thesis)
2005-2008	Stacy Romero, IPHY and MCDB student (HHMI, Honors Thesis)
2007	Vanessa Selwyn, undergraduate at New Mexico State Univ (SMART)
2006	Garland Deshazer, undergraduate at Emory University (SMART)
2005-2007	Priyanka Thummalapally, MCDB student (URAP, UROP, SURF, Honors Thesis)
2004-2007	Marianne LaBorde, MCDB student (URAP, UROP, Honors Thesis)
2004-2005	Daniel Oliver, MCDB student (UROP)
2004	Stephanie Tseeng, minority trainee through the Alcohol Research Training Program at UCHSC (PI; James Sikela)
2002	Joshua Visitacion, minority trainee through the Alcohol Research Training Program at UCHSC (PI; James Sikela)

UNDERGRADUATE STUDENT GRANTS

AY 2023/2024	“Sensitivity and Tolerance to Alcohol in GCKR Human SNP rs1260326 (P446L) in a Mouse Model of Alcohol Behaviors and Metabolism” University of Colorado, Harriet Lee, UROP Assistantship, Faculty Sponsor Award Total \$1000 “Sensitivity and Tolerance to Alcohol in GCKR Human SNP rs1260326 (P446L) in a Mouse Model of Alcohol Behaviors and Metabolism” University of Colorado, Caroline Aki, UROP Assistantship, Faculty Sponsor Award Total \$1000
Summer 2022	“Alcohol Related Behaviors in a Mouse Model of a Human Genetic Variant Associated with Alcohol Use Disorders”, University of Colorado, Emma Yang, UROP Assistantship, Faculty Sponsor Award Total \$2000 “The Genetics of Alcohol Use Disorder, through Alcohol Sensitivity and Tolerance”, University of Colorado, Nevin Fowler, UROP Assistantship, Faculty Sponsor Award Total \$2000
Summer 2021	“Alcohol Related Behaviors in a Mouse Model of a Human Genetic Variant Associated with Alcohol Use Disorders”, University of Colorado, Emma Yang, UROP Assistantship, Faculty Sponsor Award Total \$2000 “Benzodiazepines’ Effect on Behavior of High and Low Open-Field Activity Inbred Mouse Strains,” University of Colorado, Grace Schumacher, UROP Assistantship, Faculty Sponsor Award Total \$2000
Summer 2020	“Examination of Nicotine Behaviors and Associated Genetic Markers Using a Longitudinal Sample”, University of Colorado, Faculty Mentor, Julia Shoobe, UROP Assistantship, Faculty Sponsor Award Total \$2000 “Alcohol-Induced Locomotor Sensitization in Mice Selectively Bred for High and Low Activity”, University of Colorado, Faculty Mentor, Guillermo Reyes Martinez, UROP Assistantship, Faculty Sponsor Award Total \$2000
Academic Year 2019-2020	“Alcohol behaviors in mice selected for High and Low Anxiety phenotypes”, University of Colorado, Faculty Mentor, Guillermo Reyes Martinez, BSI Scholar, Faculty Sponsor Award Total \$2500
Summer 2019	“Alcohol behaviors in mice selected for High and Low Anxiety phenotypes”, University of Colorado, Faculty Mentor, Guillermo Reyes Martinez, UROP Assistantship, Faculty Sponsor Award Total \$2000
2018	“Voluntary Alcohol Consumption in Inbred Mice Selected for Differences in Open Field Activity”, University of Colorado, Faculty Mentor, Drake Giese, Integrative Physiology Undergraduate Research Award, Faculty Sponsor Award Total \$2000
2017-2018	“In vivo effects of miR-138 on CHRNA4 expression in females”, University of Colorado, Faculty Mentor for Connor Brown, BSI Scholar, Faculty Sponsor Award Total \$2500
2016-2017	“In vivo effects of miR-138 on CHRNA4 expression”, University of Colorado, Faculty

Mentor for Connor Brown, Undergraduate Research Opportunities Program, Faculty Sponsor
Award Total \$1200

2014-2015 "Comparing Recent Results from Genome-Wide Association Studies of Schizophrenia to Hypothesis-Driven Candidate Gene Studies" University of Colorado, Faculty Mentor for Chris Klene, BURST, Faculty Sponsor
Award Total \$2160

Summer 2016 "The Effects of miR-138 on Nicotine and Alcohol-like behaviors", University of Colorado, Faculty Mentor for Kristin Allen, Undergraduate Research Opportunities Program, Faculty Sponsor
Award Total \$2340

2011-2012 "Functional Studies of Human Single Nucleotide Polymorphisms (SNPS)" University of Colorado, Faculty Mentor for Krista Johnson, Undergraduate Research Award Program, Sponsor
Award Total \$1200

2007-2008 "Association between Nicotinic Receptor Genes (CHRNA3, A5, A6, B2, B3, B4) and Subjective Responses to Tobacco" University of Colorado, Faculty Mentor for Stephen Faulkner, Howard Hughes Medical Institute Undergraduate Research Program, Sponsor
Award Total \$2304

2007 "Attempted Replication of Association between Nicotinic Receptor Genes and Tobacco Behaviors" University of Colorado, Faculty Mentor for Stephen Faulkner, Summer Undergraduate Research Funding, Sponsor
Award Total 2500

2006 "Genetic correlation between exercise and alcohol consumption" University of Colorado, Faculty Mentor for Priyanka Thummalapally, Summer Undergraduate Research Funding, Sponsor
Award Total \$2000

"Possible Association Between Neuronal Nicotinic $\alpha 6$ and $\beta 3$ Receptor Subunits and Alcohol and Drug Problems" University of Colorado, Faculty Mentor for Marianne LaBorde, Undergraduate Research Opportunities Program, Sponsor
Award Total \$1000

2005-2006 "Candidate Genes for Nicotine and Alcohol Abuse" University of Colorado, Faculty Mentor for Marianne LaBorde, Undergraduate Research Opportunities Program, Sponsor
Award Total \$ 1200

"Alcohol Preference Testing in Mice" University of Colorado, Faculty Mentor for Priyanka Thummalapally, Undergraduate Research Opportunities Program, Sponsor
Award Total \$2232

2005 "Candidate Genes for Marijuana Use" University of Colorado, Faculty Mentor for Priyanka Thummalapally, Undergraduate Research Assistantship Program, Sponsor
Award Total \$2430

2004-2005 "Does Exercise Lower Alcohol Preference in High-Drinking Mouse Strains?" University of Colorado, Faculty Mentor for Daniel Oliver, Undergraduate Research Opportunities Program, Sponsor
Award Total \$1200

"Possible Association between Neuronal Nicotinic subunits and Drug and Alcohol Problems" University of Colorado, Faculty Mentor for Marianne LaBorde, Undergraduate Research Opportunities Program, Sponsor
Award Total \$800

SUPERVISED TRAINEES (Not Primary Mentor)**UNIVERSITY OF COLORADO, BOULDER, CO *M.S. Thesis and Ph.D. Dissertation Committees***

2023-present	John Sterrett, Integrative Physiology
2023-present	Lyanna Kessler, Integrative Physiology
2023-present	Tyler Akonom, Integrative Physiology
2023-present	Andrew Lombardi, Integrative Physiology
2023-present	Liza Brusman, Molecular, Cellular, and Developmental Biology
2023-present	Maya Rieselbach, Psychology and Neuroscience
2023	Maizy Brasher, M.S. defense, Ecology and Evolutionary Biology
2021-present	Deepika Dokuru, Psychology and Neuroscience
2021	Julia Potocnjak, Integrative Physiology
2021-2023	Travis Mize, Ecology and Evolutionary Biology
2020-2021	Marko A. Melnick, Integrative Physiology
2018-2020	Jordan Buck, Integrative Physiology
2018-2019	Alexander Hatoum, Psychology and Neuroscience
2018	Breanne Newell, Integrative Physiology
2017-2018	David Brazel, Molecular, Cellular, and Developmental Biology
2017-2018	Kerri Woodward, Psychology and Neuroscience
2017-2018	Spencer Huggett, Psychology and Neuroscience
2016-2017	Mengzhen Liu, Psychology and Neuroscience
	Emma Johnson, Psychology and Neuroscience
	Lawrence "Cody" Johnson, Integrative Physiology
2015-2017	Hollis Karoly, Psychology and Neuroscience
2012-2016	Coral Cabrera-montalvo, Integrative Physiology
2013-2015	Casey O'Neill, Psychology and Neuroscience
2013-2014	Sara Blaine, Psychology and Neuroscience
2012-2014	Ashley Smith, Psychology and Neuroscience
2012-2013	Matthew Simonson, Psychology
2012	Nina Donner, Integrative Physiology
2011-2012	Daniel Howrigan, Psychology
2011-2012	Paul Strong, Integrative Physiology

2009-2010	Tristan McClure-Begley, Integrative Physiology
2008-2010	Shaneen Meskew-Stacer, Clinical Psychology
2007-2010	Rohan Palmer, Psychology
2006-2007	Raven Astrom, Psychology
2006-2010	Josh Bricker, Psychology
2005-2010	Cinnamon Bidwell, Psychology
2009	Theresa Foley, Integrative Physiology
2007-2009	Victoria Cosgrove, Clinical Psychology
2006-2009	Jennifer Drapeau-Wilking, Integrative Physiology
2006-2008	Jesse Hawke, Psychology
2005-2007	Detre Godinez, Psychology
2004-2008	Kimberly Brodsky, Clinical Psychology
2004-2006	Rebecca Gaffney-Brown, Clinical Psychology
2004-2005	Christie Hartmann, Psychology
2003-2005	Heather Gelhorn, Psychology
2003	Amy Smith, Psychology

M.S. THESIS COMMITTEES

2022	Maizy Brasher, Ecology and Evolutionary Biology
2021	Deepika Dokuru, Psychology and Neuroscience
2018	Marko Melnick, Integrative Physiology
2016	Carolyn Ardizzone, Integrative Physiology
2008	Sheila Maier, Integrative Physiology

UNDERGRADUATE HONORS THESIS COMMITTEES

2021	Maizy Brasher, Ecology and Evolutionary Biology
2020	Tanner Brown, Psychology and Neuroscience
2016	Claire Koljack, Psychology
2013	Leticia Martinez, Psychology

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER, AURORA, CO

2013-2015	Ph.D. Dissertation Committee Member – Veronica Searles, Human Medical Genetics and Genomics Program, University of Colorado Health Sciences Center, Aurora, CO
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2006-2008	Ph.D. Dissertation Committee Member – Sarah Holly Stephens, Human Medical Genetics Program, University of Colorado Health Sciences Center, Aurora, CO
2007	Ph.D. Dissertation Committee Member – Wei Hu, Department of Pharmacology, University of Colorado Health Sciences Center, Aurora, CO

EXTERNAL REVIEWER FOR GRADUATE STUDENTS

2023	Ph.D. Final Oral Exam – External Examiner, Alaa Alsaafin, Pharmacology and Toxicology, University of Toronto, Toronto, Canada
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TEACHING ENHANCEMENT

Faculty Teaching and Excellence Seminars

2006	Science Education Initiative Workshops
2006	Classroom Learning Assessment Institute (5-day workshop)
2006	Are Your Students Learning the Main Concept
2005	Teaching by Leading a Discussion
2004	Tenure and Promotion II
	Performance in a Nutshell (2 session series)
	Tenure and Promotion

SERVICE CONTRIBUTIONS - UNIVERSITY

Institute for Behavioral Genetics

2012-2016, 2022-present	IBG Diversity Committee Chair
2003-2022	IBG Graduate Training Committee
2011-2022	IBG Postdoctoral Trainee Liaison
2008, 2012, 2013, 2014, 2017, 2018, 2019, 2022	Faculty Search Committee for new IBG hire
2014	Acting Director (January-July)
2004-2008	Director, IBG Graduation Training Program

Department of Integrative Physiology

2022-present	Chair
2023	Search Committee member, Program Coordinator for Bioscience training programs (graduate student Curci Scholars, undergraduate NIH Bridges to Baccalaureate, undergraduate HHMI

inclusive excellence program)

2021-2022	Interim Chair
2019-2021	Welfare Committee, 2020-2021, Chair
2016-2017	Faculty Search Committee for IPHY hire
2017	PUEC Committee for Dr. Chris Link, Promotion and Tenure to Associate Professor, Service component
2014	PUEC Committee for Dr. Alaa Ahmed, Promotion and Tenure to Associate Professor, Service component
2012	PUEC Committee for Dr. Donna Louie PUEC Committee for Dr. Matthew McQueen, Promotion and Tenure to Associate Professor, Research component Classroom Interview Visit and Teaching Peer Review for Dr. Donna Louie
2010	PUEC Committee for Owen Murphy
2009-2012	Member, Science Education Initiative committee to establish Statistics curriculum

University of Colorado

2023	PUEC Committee for Dr. Luke Evans (Department of Ecology and Evolutionary Biology), Reappointment evaluation, Service component
2022-present	College of Arts and Sciences, Natural Science Council Member and representative on the Arts and Sciences Faculty Senate, Diversity sub-committee member
2022-present	AB Nexus Research Advisory Group member
2021	Undergraduate Research Opportunities Program (UROP) student grant reviewer
2020	Faculty participant in Women's Basketball 1-on-1 event, November 12
2019	Internal Review Committee member for Department of Psychology and Neuroscience during Academic Review and Planning Advisory Committee (ARPAC) report
2017	Member, Reappointment Committee for Dr. John Hewitt as IBG Director Faculty reviewer for UROP Individual and Team grants (28 applications) Faculty reviewer for Norlin Scholar selection (reviewed 15 applicants)
2016-2021	Institutional Animal Care and Use Committee (IACUC) Member 2017-2021 Co-Chair of IACUC
2016-2017	Committee member, Faculty Advisor for Research Dashboard Development of online system to manage research and grant-related administrative items
2016	Committee member, Provost Achievement Awards evaluation
2013-2014	Faculty Mentor, First Year Experience
2010	Workshop Panelist – Topic: How to Run a Research Laboratory PUEC Committee for Dr. Donna Louie

PROFESSION EDITORIAL

2016-present	Associate Editor, <i>Genes, Brain, and Behavior</i>
2012	Associate Editor for special issue “Non-coding RNA and Drugs of Abuse” in <i>Frontiers in Genetics</i>
<u>GRANT REVIEWS</u>	
2023	NIH ZRG1 F02A, Fellowships: <i>Behavioral Neuroscience</i>
2022	NIH ZAA1 DD(C1) NIAAA reviews of SBIR applications for Data Science Tools for Acceleration of Alcohol Research NIH ZRG1 F02A, Fellowships: <i>Behavioral Neuroscience</i> , 2 meetings
2021	NIH NIDA Special Emphasis Panels (two; no longer list exact panel to maintain confidentiality)
2020	NIH ZAA1-DD(C2) NIAAA reviews of SBIR applications for Data Science Tools for Acceleration of Alcohol Research
2019	NIH ZDA1-IXR-Q NIDA reviews of U01 grant applications NIH ZAA1CC50 P50 NIAAA Center grant applications NIH ZRG1 F02A, Fellowships: <i>Behavioral Neuroscience</i>
2018	NIH Genes, Health, and Disease Study Section, <i>ad hoc</i> NIH NIDA P30/P50 Center Grant Reviews Tobacco-Related Disease Research Program, University of California
2017	NIH ZRG1 F02A, Fellowships: <i>Behavioral Neuroscience</i> , 2 meetings
2011-2016	NIH Genes, Health, and Disease Study Section, regular member
2014	Tobacco-Related Disease Research Program, University of California Nicotine Dependence Study Section NIH NIDA P60 Center Grant Review
2013	Florida Biomedical Research Program (<i>ad hoc</i>) NIH NIAAA P50 Center Grant Review
2009-2012	Tobacco-Related Disease Research Program, University of California Nicotine Dependence Study Section
2010	NIH Genes, Health, and Disease Study Section, <i>ad hoc</i> grant reviewer NIH Molecular Genetics A, Special Emphasis Panel/Scientific Review Group grant reviewer NIH Behavioral Genetics and Epidemiology (BGES) member conflict special emphasis panel (<i>ad hoc</i>)
2009-2010	Florida Biomedical Research Program (<i>ad hoc</i>)
2009	NIH/National Institute of Drug Abuse Special Study Section, Secondary Data Analyses for Substance Abuse Research Alcohol Center for Translational Genetics, Ernest Gallo Clinic and Research Center (<i>ad hoc</i> review of Pilot Projects)

Medical Research Council, United Kingdom (*ad hoc*)

2007 North Carolina Biotechnology Center (*ad hoc*)

2004 US Army Medical Research and Materiel Command (*ad hoc*)

MANUSCRIPT REVIEWS

On average, I conduct a manuscript review every other month for one of the following journals upon request, in addition to my regular duties as Associate Editor for *Genes, Brain, and Behavior*.

Addictive Behaviors; Addiction Biology; Aggressive Behavior; Alcohol, Alcoholism: Clinical and Experimental Research; Behavioral Genetics; Bioinformatics; Biological Psychiatry; BMC Genomics; Cancer Research; Genes, Brain, and Behavior; Genes, Genomics, and Genetics; Human Molecular Genetics; Journal of Psychopharmacology; Molecular Medicine; Molecular Psychiatry; Neuropsychiatric Genetics; Neuropsychobiology; Neuropsychopharmacology; Nicotine and Tobacco Research; Pharmacology, Biochemistry, and Behavior; Physiological Genomics; PLoS One; Psychological Assessments; Physiology and Behavior; Psychopharmacology

EFFORTS TO INCREASE REPRESENTATION IN RESEARCH

2016 Led effort to develop a new Diversity Travel Award for two undergraduates to attend the Annual Meeting of the Research Society on Alcoholism (RSA)

EXTERNAL LETTERS OF REVIEW FOR PROMOTION & TENURE, ADVANCED APPOINTMENTS

2023 Virginia Commonwealth University, Richmond, VA

2022 University of San Diego School, School of Medicine, San Diego, CA

2020 University of Minnesota, Minneapolis, MN

2020 Washington University in St. Louis, School of Medicine, St. Louis, MO

2017 University at Buffalo, Buffalo, NY

2015 Yale University, School of Medicine, New Haven, CT

2011 Washington University in St. Louis, School of Medicine, St. Louis, MO

INTERNATIONAL CONSORTIUM

2009-2011 Executive Steering Committee Member, Consortium on the Genetic Analysis of Smoking Phenotypes (CGASP) Chair, Committee on Adolescent/Early Behaviors

OUTREACH

2023 Presentation for Girl Scouts of Colorado “Inspiring Futures” about career path and being a College Professor (1 hour zoom)

2023 “Partnership with BVSD: Supporting and Mentoring Students of Color”
Dean’s Innovation Fund Award to support this effort by the Diversity sub-committee of the Arts and Sciences Faculty Senate; unfortunately after much effort, the logistics of this program regarding transfer of funds made it impossible to implement

2017-present Communities that Care, Advisor for Broomfield Public Health and Environment Department
Broomfield, CO program to prevent drug use and addiction

2018-2019	Mentor for Fairview High School student, Anurdha Prakash *Won 1 st place in Animal Science category at the Corden Pharma Science Fair and the Regional Special Award from the American Statistical Association for her poster “How Does Anxiety Influence Alcohol Use?” *Placed 3 rd at the State Competition
2017	Guest lecture at Dawson School (K-12, audience included high school), Lafayette, CO
2015	Guest lecture at Regis College, Denver, CO Neuroscience Seminar on Drugs & Addiction, instructor Dr. Robin Cloues Title “Booze, Butts, and Genes: Nicotinic Receptors in Alcohol and Tobacco Behaviors”
2014	Interview with Ms. Simone Jackson, High School student
2013	Mentor for Centaurus High School minority study, Mr. Odysseus Quarles, summer
2013	American Society for Human Genetics, DNA Day Essay Reviewer, Reviewed nine essays prepared by high school students for DNA day
2010	American Society for Human Genetics reviewer of state standards in core concepts in genetics (Colorado and Nebraska)
2009-2010	Mentor for Science Research Seminar course through Boulder Valley School District Max Ciaglo and Jordan Smith – seniors at Monarch High School
2009	Guest Lecture “Genetics of Alcohol and Tobacco Use”Denver Museum of Nature and Science Teacher Institute Workshop on “Genetics of Taste: A Flavor for Health”
2009-2011	“DNA Day” at Mountainview Elementary School classes, Broomfield, CO
2008-2009	Mentor for Science Research Seminar course through Boulder Valley School District Carey Fluornoy and Jack Evans – seniors at Monarch High School
2007-2008	Mentor for Science Research Seminar course through the Boulder Valley School District Nathan Rolston – senior at Monarch High School
2007	Judge for Roche Colorado Boulder Valley Regional Secondary Science Fair (high school and middle school participants)
2005	Colorado Wyoming Junior Science Academy presentation for High School students visiting CU Boulder Topic: Human Genome Informatics Resources
2005-2006	Mentor for Science Research Seminar course through the Boulder Valley School District Cara Leuders – sophomore at Nederland High School
2004-2020	American Society of Human Genetics Mentor Network Member

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2004-present	Research Society on Alcoholism (RSA) 2024 Program Committee Member for Annual Meeting in Minneapolis, MN 2015-2019 Board Member (elected position) 2018 Program Committee Member for Annual Meeting in San Diego, CA 2015 Program Committee Member for Annual Meeting in San Antonio, TX
2009-present	International Behavioural and Neural Genetics Society (IBANGS) 2019-present Liaison with Wiley for <i>Genes, Brain, and Behavior</i> 2016-2019 President-Elect/President/Past-President (2016-2019) 2014-2016 Member, Awards Committee (Chair, 2015-2016) 2010-2013 Treasurer (elected position) 2012 Local Host and Program Committee Co-Chair for Annual Meeting, held in Boulder, CO for ~140 participants 2012 Co-Chair of Satellite Meeting “Epigenetic Inheritance and the Implications for

Complex Traits", a satellite meeting to the annual IBANGS meeting, Boulder, CO
2012 Program Committee Member for Annual Meeting in Uppsala, Sweden

2009

Society for Research on Nicotine and Tobacco (SRNT)
2010-2018 Genetics Advisory Committee
2014-2017 Genetics Advisory Committee co-chair (elected position)
2016 Program Committee Member for Annual Meeting in Chicago, IL
2015 Program Committee Member for Annual Meeting in Philadelphia, PA
2011 Program Committee Member for Annual Meeting in Houston, TX

2004-2016

Behavioral Genetics Association (BGA)