

# Marissa Aileen Ehringer

ASSOCIATE 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

**2010-present Associate Professor with Tenure**

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-present**

**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

**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

**2000-2001**

Graduate Student Training Fellowship  
Institute for Behavioral Genetics,  
University of Colorado Boulder, CO

**1994**

Undergraduate Research Grant  
Department of Biology, Indiana  
University, Bloomington, IN

**1993**

Intercampus Undergraduate Summer  
Research Grant Indiana University /IU  
Southeast, Bloomington, IN/New  
Albany, IN

**1991-1995**

Member Honors Division, Indiana  
University, Bloomington, IN

**1991-1992**

Member Phi Eta Sigma Freshman  
Honor Society

**1994-1995 Undergraduate Research Assistant**

Department of Biology  
Laboratory of Noman Pace  
Indiana University, Bloomington, IN

**1993 Undergraduate Research Assistant**

Department of Biology  
Laboratory of Gretchen Kirchner  
Indiana University Southeast, New Albany, IN

**ACTIVE - RESEARCH FUNDING****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**

**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**

**ACTIVE – TRAINING GRANTS****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****2018-2019**

**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**

## **COMPLETED - RESEARCH FUNDING - Continued**

<b>2005-2010</b>	<b>NIH K01 AA015336 (PI:Ehringer)</b> "Molecular Genetics and Behavior: Alcohol and Tobacco Use" K01 AA015336 Mentored Career Award <b>Award Total \$643,109</b>
<b>2008-2009</b>	<b>Seed Grant, American Cancer Society, Principal Investigator of Seed Award</b> "Functional Characterization of Nicotinic Receptor Genes Associated with Smoking Behavior and Lung Cancer" IRG #57-001-47 <b>Award Total \$10,000</b>
<b>2006-2010</b>	<b>P01 HD31921 (PI: Harris)</b> 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 <b>Award Total \$526,830 to IBG</b>
<b>2003-2009</b>	<b>P60 DA011015 (PI: Crowley)</b> Antisocial Drug Dependence: Genetics", NIH, Co-Investigator on Assessment Core B <b>Award Total \$34,839</b>
<b>2007-2008</b>	<b>Pilot project for P60 DA011015 (PI: Crowley)</b> "Resequencing of 5' region in CHRN3 gene" , NIH, PI of pilot project <b>Award Total \$29,400</b>
<b>2005-2007</b>	<b>NARSAD, (PI: Whisman)</b> "Prospective Associations Among Genes, Stress, and Depression" Co-Investigator <b>Award Total \$100,000</b>
<b>2003-2006</b>	<b>R01 AA014250 (PI: Smolen)</b> "Genetic Association and Stratification: Alcoholism" NIH, Co-Investigator <b>Award Total \$425,000</b>
<b>2004-2005</b>	<b>University of Colorado, Principal Investigator</b> "Searching for Genes Involved in Alcohol and Tobacco Addiction" Grant-in-Aid, Council on Research and Creative Work (CRCW) <b>Award Total \$6997</b>
<b>2005-2006</b>	<b>University of Colorado, Principal Investigator</b> "How are Running (Exercise) and Alcohol Preference Related in a Mouse Model" Junior Faculty Development Award, Council on Research and Creative Work (CRCW) <b>Award Total \$5000</b>
<b>2004-2005</b>	<b>Supplement #4S-003 Colorado Tobacco Research Program, Principal Investigator</b> "Candidate Genes for Tobacco Use and Nicotine Dependence" <b>Award Total \$100,000</b>
<b>2004</b>	<b>Pilot Project", NIH, PI of pilot project P60 DA011015 (PI: Crowley)</b> "Targeting SNPs in the CNR1 gene for Marijuana Association Study Component 6 <b>Award Total \$20,000</b>
<b>2002-2004</b>	<b>(IDEA 1535688) Colorado Tobacco Research Program, Principal Investigator</b> "Candidate Genes for Tobacco Use and Dependence" Innovative Developmental and Exploratory Award <b>Award Total \$110,250</b>

## 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.

- 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 psychopathology and alcohol use. *Am J Med Genet B Neuropsychiatric Genetics*, in press.
- 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:**  
org/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
- 2020**
- 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\*\*<sup>D</sup>, L.M. Evans<sup>D</sup>, 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. Hofl\*\*\*, **M.A. Ehringer** (2019) The effect of voluntary wheel running on 129/SvEvTac and C3H/lbg 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-Greif\*\*, 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. Levran, 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. Schmäl, 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.2015.08.035  
**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.2014.10.008  
**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. Lytikäinen, 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. Foround, 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*

**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 CHRNB4 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  
**PMCID:** PMC3727281  
**PMID:** 23350800

**46.** H. Kamens\*\*\*, R. Corley, M. McQueen, M. Stallings, C. Hopfer, T. Crowley, S. Brown, J. Hewitt, **M. Ehringer**. (2013) Nominal association with *CHRNA4* Variants and Nicotine Dependence. *Genes, Brain, and Behavior*, 12(3):297-304.

**DOI:** 10.1111/gbb.12018  
**PMCID:** PMC3581861  
**PMID:** 23433184

**45.** T. Darlington\*\*, **M. Ehringer**, C. Larson, T. Phang, R. Radcliffe. (2013) Transcriptome analysis of Inbred Long Sleep and Inbred Short Sleep mice. *Genes, Brain, and Behavior*, 12(2): 263-274. ✓Selected for Virtual Online Issue on Genes, Behavior and next-generation RNA sequencing

## 2012

**DOI:**  
10.1016/j.alcohol.2012.03.001  
**PMCID:** PMC3403529  
**PMID:** 22572056

**44.** H.M. Kamens\*\*\*, N.R. Hoft, R.J. Cox, J.H. Miyamoto, **M.A. Ehringer**. (2012) The  $\alpha 6$  nicotinic acetylcholine receptor subunit influences ethanol-induced sedation. *Alcohol*, 46(5):463-471.

**DOI:**  
10.1016/j.drugalcdep.2012.02.014

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## REVIEW ARTICLES PUBLISHED OR IN PRESS

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W.C. Booher\*\*, G.J. Reyes Martinez, **M.A. Ehringer** (2020) Behavioral and neuronal interactions between exercise and alcohol: Sex and genetic differences. *Genes, Brain, and Behavior*, 19(3):e12632.

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## EDITORIALS PUBLISHED OR IN PRESS

- 2019** **DOI:** 10.1186/s13293-017-0136-8 **PMCID:** PMC5415751 **PMID:** 28473910 **M.A. Ehringer** (2019) Identifying epigenetic targets underlying the effects of prenatal exposure to opioids. *Genes, Brain, and Behavior*, 18(6):e12503.
- 2017** **DOI:** org/10.3389/fgene.2012.00049 M.S. Powers, P.H. Smith, S.A. McKee, **M.A. Ehringer** (2017) From sexless to sexy: Why it is time for human genetics to consider and report analyses of sex. *Biology of Sex Differences*, 8:15.
- 2012** **DOI:** org/10.3389/fgene.2012.00049 **M. A. Ehringer**. (2012) Editorial: Connecting ncRNA cigarette smoking studies with tobacco use behaviors and health outcomes. *Frontiers in Genetics*, 3:Article 49.
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## PEER REVIEWED ABSTRACTS FROM PARTICIPATION IN CONFERENCES

- 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. 22<sup>nd</sup> 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. 22<sup>nd</sup> Annual Meeting of the International Behavioural and Neural Genetics Society. \*Selected talk.
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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, 50<sup>th</sup> Annual meeting of the Behavior Genetics Association. *Behavior Genetics*, 50:443-444.

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**2018** 38. E. Elliotte, 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. 20<sup>th</sup> 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. 20<sup>th</sup> 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. 19<sup>th</sup> 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? 18<sup>th</sup> 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. 18<sup>th</sup> 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. 18<sup>th</sup> 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. 16<sup>th</sup> 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. 16<sup>th</sup> 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. 16<sup>th</sup> 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. 15<sup>th</sup> 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. 15<sup>th</sup> 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. 15<sup>th</sup> 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. 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.

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19. **M.A. Ehringer**, H.M. Kamens, S.H. Stephens, A.V. Flora, X. Gallego, C. Zambrano, J.A. Stitzel. (2012) Role of *CHRN* 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.

15. H.M. Kamens, J.H. Miyamoto, J.A. Stitzel, **M.A. Ehringer**. (2012) SNPs upstream of the human

*CHRNA3* gene influence gene expression. *Genes Brain Behav* 11(4): 486.

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, 13<sup>th</sup> Annual Meeting of the International Behavioural and Neural Genetics Society, Rome, Italy, Symposium 2 talk.

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 *Chrn3* genes in alcohol behaviors – human, molecular, and mouse genetics. Proceedings, 11<sup>th</sup> 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, 39<sup>th</sup> 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, 38<sup>th</sup> 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, 10<sup>th</sup> 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

## PUBLISHED ABSTRACTS

- 2021** 53. L.J. Bunch\*\*, M.S. Powers\*\*\*, L.A. Hall\*\*, E.A. Mehrohoff\*\*, W.C. Booher\*\*, P.N. Romero-Villela\*\*, M.A. Ehringer (2021) Initial characterization of GCKR human SNP rs1260326 (P446L) in a mouse model of alcohol behaviors. *Alcohol Clin Exp Res.* 45, 81A
- 2019** 52. E.E. Elliotte\*, 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
- 2016** 49. M.S. Powers, K. Chun, T. Fox, J.A. Stitzel, **M.A. Ehringer**. (2016) Examining the role of the D397N CHRNA5 nicotinic acetylcholine polymorphism (rs16969968) on alcohol-related behaviors in mice. *Alcohol Clin Exp Res.* 40(S1), 190A.
- 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 *Chrb4* 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 *Chrb4* 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 *Chrb3* 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
37. T. M. Darlington, **M.A. Ehringer**, C. Larson, R.A. Radcliffe. (2011) RNA Sequencing of striatal and whole brain transcriptome: Differences between alcohol sensitive long sleep and short sleep mice strains. *Alcohol Clin Exp Res* 35(6): 257A.
36. C.A. Zambrano, A.V. Flora, R.M. Salamander, E.M. Funk, M.J. Marks, J.A. Stitzel, **M.A. Ehringer**. (2011) Functional study of SNPs in the A5A3B4 nAChR gene cluster expressed in mouse embryonic neuronal culture. *Nicotinic Acetylcholine Receptors Abstract Book*.
35. **M.A. Ehringer**, J.A. Stitzel, A.V. Flora, X. Gallego, H.M. Kamens, C. Zambrano. (2011) Which SNPs are functional? Molecular studies of SNPs in human CHRN gene associated with drug behaviors. *Nicotinic Acetylcholine Receptors Abstract Book*.
34. T.M. Darlington, **M.A. Ehringer**, C. Larson, and R.A. Radcliffe. (2011) RNA-Sequencing reveals striatal transcriptome differences between the Inbred Long Sleep (ILS) and Inbred Short Sleep (ISS) mouse strains. *IBANGS Abstract Book #48*.
- 2010**
33. N. Hoft, H. Kamens, J. Miyamoto, and **M.A. Ehringer**. (2010) The role of Chrna6 and Chrn3 genes in alcohol behaviors using mouse models. *ASHG Abstract Book, #2491*.
32. N.R. Hoft, S.H. Stephens, J. Miyamoto, R. Corley, D. Huizinga, S. Menard, **M.A. Ehringer**. (2010) Longitudinal association of alcohol use behaviors with CHRNA6 gene in independent samples. *Alcohol Clin Exp Res* 34(6): 73A.
31. T.M. Darlington, B.L. Chitel, N.R. Hoft, and **M.A. Ehringer**. (2010) Voluntary alcohol use and exercise, Effects on gene expression in dopaminergic reward pathway. *Alcohol Clin Exp Res* 34(6): 186A.
30. H.M. Kamens, M.B. McQueen, and **M.A. Ehringer**. (2010) Association of the CHRN2 gene and DSM-IV alcohol abuse and dependence criteria. *Genes, Brain, and Behavior* 9(4):434.
29. T.M. Darlington, N.R. Hoft, B.L. Chitel, and **M.A. Ehringer**. (2010) Voluntary alcohol use and exercise influence differential gene expression in mesocorticolimbic dopamine pathway. *Genes Brain and Behavior* 9(4):431.
- 2009**
28. S.H. Stephens, M.B. McQueen, S.E. Young, I.R. Schlaepfer, J.K. Hewitt, and **M.A. Ehringer**. (2009) Association of SNPs in the CHRNA5/CHRNA3/CHRN4 gene cluster with conduct disorder-related phenotypes. *ASHG Abstract Book*.
27. N.R. Hoft, J.A. Stitzel, K.E. Hutchison, and **M.A. Ehringer**. (2009) CHRN2 promoter region: Association with subjective effects and gene expression differences. *WCPG Abstract Book #69*.
26. T.M. Darlington, N.R. Hoft, B.L. Chitel, T.Y. Fofanova, and **M.A. Ehringer**. (2009) The interaction of alcohol and exercise on gene expression. *IBANGS Abstract book #7*; p.84.
- 2008**
25. N.R. Hoft, J. Stitzel, J. Miyamoto, **M. Ehringer**. (2008) Single nucleotide variations upstream of CHRN3 affect reporter gene expression. *AJHG Abstract Book #2254*, p.427.
24. **M.A. Ehringer**, N.R. Hoft, and I.R. Schlaepfer. (2008) Human studies implicating a role for nAChR genes in alcohol and tobacco behaviors. *Alcohol Clin Exp Res* 32(6): 788.
23. **M.A. Ehringer**, N.R. Hoft, and J. Godfrey. (2008) Development of a mouse model examining the effects of voluntary wheel-running on alcohol consumption. *Alcohol Clin Exp Res* 32(6): 319.
- 2007**
22. N. Hoft, I. Schlaepfer, R. Corley, S. Young, B.C. Haberstick, D. Huizinga, S. Menard, and **M.A. Ehringer**. (2007) Genetic Association of the CHRNA6 and CHRN3 genes with tobacco dependence in a nationally representative sample. *AJHG Abstract Book #2340*, p.444.
21. I.R. Schlaepfer, A.C. Collins, R.P. Corley, T.C. Crowley, J.K. Hewitt, N. Hoft, C.J. Hopfer, J. Lessem, S.H. Rhee, M.C. Stallings, S.E. Young, and **M.A. Ehringer**. (2007) Genetic Association of

the CHRNA3-CHRNA4 Gene Cluster with Behavioral Disinhibition in Young Adults. *AJHG Abstract Book #1969*, p.379.

20. I. Schlaepfer, N. Hoft, C.J. Hopfer, K. Krauter, J. Lessem, S.H. Rhee, A. Smolen, M.C. Stallings, S.E. Young, and **M.A. Ehringer**. (2007) Genetic Association of the Cholinergic Nicotinic Receptor A5A3B4 Gene Cluster with Tobacco and Alcohol Use in Young Adults. *Alcohol Clin Exp Res* 32(6): 482.

19. N. Hoft, I. Schlaepfer, M. McQueen, B. Haberstick, R. Corley, S. Young, D. Huizinga, S. Menard, and **M. Ehringer**. (2007) Association of Variability in the CHRNA5/A3/B4 Gene Cluster with Alcohol and Tobacco Age of Initiation in a Nationally Representative Sample. *Alcohol Clin Exp Res* 32(6): 483.

18. J.T. Sakai, M.C. Stallings, T.J. Crowley, H.L. Gelhorn, and **M.A. Ehringer**. (2007) Test for Association Between GABRA2 (SNP rs279871) and Conduct/Alcohol Use Disorders in Adolescent Patients and Controls. *CPDD Program Book* p.35

17. R.P. Corley, J.S. Zeiger, M.C. Stallings, T. Crowley, **M.A. Ehringer**, J.K. Hewitt, C.J. Hopfer, J. Lessem, M. McQueen, S.H. Rhee, A. Smolen, S.E. Young, and K. Krauter. (2007) Association of candidate genes with antisocial drug dependence in adolescents. *Behavior Genetics*, 27, 61.

**2006** 16. 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.

**2005** 15. B.J. Bowers, H. Davis, & **M.A. Ehringer**. (2005) C57 Female mice drink less alcohol when given access to a running wheel. *Alcohol Clin Exp Res* 29(5): 556.

**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.

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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.
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- 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

- 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. 20<sup>th</sup> 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. 2<sup>nd</sup> 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. 16<sup>th</sup> 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 *CHRN3* genes in tobacco and alcohol behaviors – Human molecular genetics. 16<sup>th</sup> 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. 16<sup>th</sup> 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. 12<sup>th</sup> Annual Meeting of the International Behavioural and Neural Genetics Society, Halifax, Nova Scotia, Canada
- 2009** **Ehringer, M.A.** (2009) “The role of *CHRNA6* and *CHRN3* in tobacco and alcohol behaviors – Human, molecular, and mouse genetics” Translational Nicotine Research Meeting, Düsseldorf, Germany
- Ehringer, M.A.**, Hoft, N.R., and Vidable, L. (2009) “The role of *Chma6* and *Chmb3* genes in alcohol behaviors – human, molecular, and mouse genetics” 11<sup>th</sup> 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” 38<sup>th</sup> 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 comorbidity of alcohol and nicotine dependence” 10<sup>th</sup> Annual Meeting of the International Behavioural and Neural Genetics Society, Portland, OR
- 2007** **Ehringer, M.A.** (2007) “Is the *CHRN3* gene associated with nicotine behaviors?” 37<sup>th</sup> 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

- 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" 33<sup>rd</sup> 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

- 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. 22<sup>nd</sup> 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. 22<sup>nd</sup> 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. 21<sup>st</sup> 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. 13<sup>th</sup> 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. 17<sup>th</sup> 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*. 17<sup>th</sup> 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 *CHRN* 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

- 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  
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  
FA2020, FA2019, FA2107, FA2016, FA2015, FA2014, FA2013, FA2012  
Total Students: 2-4 students each semester
- IPHY4860** Independent Study  
SP2020, FA2019, SP2019, FA2018, SP2018, FA2017, SP2017, FA2016, SP2016, FA2015, SP2015, FA2014, SP2014, SU2012, SP2011, FA2011, SU2009, FA2009, SU2008, SU2007, FA2007, SU2006  
Total students: 22 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

- IPHY6100** Proseminar in Behavioral Genetics  
FA2020, 6 students – lead instructor with Dr. Luke Evans
- IPHY5262** Applications of Bioinformatics and Genomics  
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  
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

## 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)
- 1992-1995** Private tutor for student-athletes through the athletic department  
Mathematics, Biology, Physics, and Chemistry

## ADVISORY AND SUPERVISORY RESPONSIBILITIES

### Junior Faculty Mentor

- 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-present** 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 Tauli (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

**2020-present**                **Erika Mehrhoff**, Integrative Physiology, M.S. candidate

**Logan Bunch**, Integrative Physiology, M.S. candidate

**Eamonn Duffy**, Integrative Physiology, Ph.D. candidate

**2019-present**                **Pamela Romero**, Psychology and Neuroscience, Ph.D. candidate

### FORMER GRADUATE TRAINEES

**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

<b>2021-present</b>	Emma Yang, IPHY student (INDST, UROP) Greta Kumskis, IPHY student (INDST) Grace Schumacher, IPHY student (INDST, UROP) Nevin Fowler, IPHY student (INDST) Julianna Hutchison, IPHY student (INDST)
<b>2021</b>	Shay Ware, IPHY student (INDST)
<b>2020-present</b>	Myra Bower, The University of Tennessee-Knoxville (SMART)
<b>2020</b>	Julia Shoobe, IPHY student
<b>2019-2020</b>	Katie Scanlon, IPHY student (INDST) Michaela Nelsen, IPHY student (INDST) Hanna Lavassani, IPHY student (INDST) Guillermo Reyes Martinez, IPHY student (INDST, UROP, BSI)
<b>2019</b>	Morgan Bauer, Rochester Institute of Technology (SMART)
<b>2018-2020</b>	Lucy Hall, IPHY student (INDST)
<b>2018-2019</b>	Madison Paul, Neuroscience major (INDST)
<b>2018</b>	Eliza Elliotte, Hollins University (SMART)
<b>2017</b>	Eiley McCormick, IPHY student, Faculty sponsor for Internship on Spinal Chord Injury Recovery
<b>2017-2018</b>	Claire Kazen, IPHY student (Honors Thesis)
<b>2017-2019</b>	Rachel Mahoney, MCDB student (BSI) Gabriel Villavicencio, IPHY student (INDST)
<b>2017</b>	Marcus Ferrara, IPHY student (INDST)
<b>2017-2018</b>	Drake Giese, IPHY student (INDST)
<b>2017</b>	Alyssa Johnson, Psychology/Neuroscience, Virginia Polytechnic Institute and State University (SMART) Brooke Gallagher, IPHY student (INDST)
<b>2016-2017</b>	Kaylee Dykstal, IPHY student (INDST)
<b>2016</b>	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)
<b>2015-2016</b>	Kristin Allen, IPHY student (INDST, BURST, UROP) Kirsten Chun, IPHY student (INDST) Tyler Fox, IPHY student (INDST)
<b>2015</b>	Robin Hacker-Cary, IPHY student (PRACTICUM IN IPHY) Alissa DiMasi, undergraduate at Regis University (SMART)
<b>2014-2015</b>	Chris Klene, Independently Structured Major in Public Health (BURST) Kelsey Fitzgerald, IPHY student (INDST, Honors Thesis) Jordan Hood, IPHY student (INDST)
<b>2014</b>	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
<b>2012-2013</b>	Marissa Soto, UC Denver undergraduate, course credit for PSYC Kasey Ro, IPHY student
<b>2012</b>	Rachel Foster, undergraduate at Mount Holyoke College (SMART)
<b>2011-2012</b>	Jason Segall, IPHY student (INDST)
<b>2011-2012</b>	Rebecca Rodman, IPHY student (INDST)
<b>2011</b>	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

<b>Summer 2021</b>	“Alcohol Related Behaviors in a Mouse Model of a Human Genetic Variant Associated with Alcohol Use Disorders”, <b>University of Colorado, Emma Yang, UROP Assistantship, Faculty Sponsor</b> <b>Award Total \$2000</b>
	“Benzodiazepines’ Effect on Behavior of High and Low Open-Field Activity Inbred Mouse Strains,” <b>University of Colorado, Grace Schumacher, UROP Assistantship, Faculty Sponsor</b> <b>Award Total \$2000</b>
<b>Summer 2020</b>	“Examination of Nicotine Behaviors and Associated Genetic Markers Using a Longitudinal Sample”, University of Colorado, Faculty Mentor, Julia Shoobe, UROP Assistantship, Faculty Sponsor <b>Award Total \$2000</b>
	“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 <b>Award Total \$2000</b>
<b>Academic Year 2019-2020</b>	“Alcohol behaviors in mice selected for High and Low Anxiety phenotypes”, University of Colorado, Faculty Mentor, Guillermo Reyes Martinez, BSI Scholar, Faculty Sponsor <b>Award Total \$2500</b>
<b>Summer 2019</b>	“Alcohol behaviors in mice selected for High and Low Anxiety phenotypes”, University of Colorado, Faculty Mentor, Guillermo Reyes Martinez, UROP Assistantship, Faculty Sponsor <b>Award Total \$2000</b>
<b>2018</b>	“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 Ph.D. Dissertation Committees**

<b>2020</b>	Marko A. Melnick, Integrative Physiology
<b>2018-2020</b>	Jordan Buck, Integrative Physiology
<b>2018-2019</b>	Alexander Hatoum, Psychology and Neuroscience
<b>2018</b>	Breanne Newell, Integrative Physiology
<b>2017-2018</b>	David Brazel, Molecular, Cellular, and Developmental Biology
<b>2017-2018</b>	Kerri Woodward, Psychology and Neuroscience
<b>2017-2018</b>	Spencer Huggett, Psychology and Neuroscience
<b>2016-2017</b>	Mengzhen Liu, Psychology and Neuroscience Emma Johnson, Psychology and Neuroscience Lawrence “Cody” Johnson, Integrative Physiology
<b>2015-2017</b>	Hollis Karoly, Psychology and Neuroscience
<b>2012-2016</b>	Coral Cabrera-montalvo, Integrative Physiology
<b>2013-2015</b>	Casey O’Neill, Psychology and Neuroscience
<b>2013-2014</b>	Sara Blaine, Psychology and Neuroscience
<b>2012-2014</b>	Ashley Smith, Psychology and Neuroscience
<b>2012-2013</b>	Matthew Simonson, Psychology
<b>2012</b>	Nina Donner, Integrative Physiology
<b>2011-2012</b>	Daniel Howrigan, Psychology
<b>2011-2012</b>	Paul Strong, Integrative Physiology
<b>2009-2010</b>	Tristan McClure-Begley, Integrative Physiology
<b>2008-2010</b>	Shaneen Meskew-Stacer, Clinical Psychology
<b>2007-2010</b>	Rohan Palmer, Psychology
<b>2006-2007</b>	Raven Astrom, Psychology
<b>2006-2010</b>	Josh Bricker, Psychology

<b>2005-2010</b>	Cinnamon Bidwell, Psychology
<b>2009</b>	Theresa Foley, Integrative Physiology
<b>2007-2009</b>	Victoria Cosgrove, Clinical Psychology
<b>2006-2009</b>	Jennifer Drapeau-Wilking, Integrative Physiology
<b>2006-2008</b>	Jesse Hawke, Psychology
<b>2005-2007</b>	Detre Godinez, Psychology
<b>2004-2008</b>	Kimberly Brodsky, Clinical Psychology
<b>2004-2006</b>	Rebecca Gaffney-Brown, Clinical Psychology
<b>2004-2005</b>	Christie Hartmann, Psychology
<b>2003-2005</b>	Heather Gelhorn, Psychology
<b>2003</b>	Amy Smith, Psychology

### **M.S. THESIS COMMITTEES**

<b>2018</b>	Marko Melnick, Integrative Physiology
<b>2016</b>	Carolyn Ardizzone, Integrative Physiology
<b>2008</b>	Sheila Maier, Integrative Physiology

### **UNDERGRADUATE HONORS THESIS COMMITTEES**

<b>2020</b>	Tanner Brown, Psychology and Neuroscience
<b>2016</b>	Claire Koljack, Psychology
<b>2013</b>	Leticia Martinez, Psychology

### **UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER, AURORA, CO**

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

### **TEACHING ENHANCEMENT**

#### **Faculty Teaching and Excellence Seminars**



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

## SERVICE CONTRIBUTIONS - UNIVERSITY

### Institute for Behavioral Genetics

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

### Department of Integrative Physiology

<b>2019-Present</b>	Welfare Committee, 2020-present, Chair
<b>2016-2017</b>	Faculty Search Committee for IPHY hire
<b>2017</b>	PUEC Committee for Dr. Chris Link, Promotion and Tenure to Associate Professor, Service component
<b>2014</b>	PUEC Committee for Dr. Alaa Ahmed, Promotion and Tenure to Associate Professor, Service component
<b>2012</b>	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
<b>2010</b>	PUEC Committee for Owen Murphy
<b>2009-2012</b>	Member, Science Education Initiative committee to establish Statistics curriculum

## University of Colorado

<b>2021</b>	Undergraduate Research Opportunities Program (UROP) student grant reviewer
<b>2020</b>	Faculty participant in Women's Basketball 1-on-1 event, November 12
<b>2019</b>	Internal Review Committee member for Department of Psychology and Neuroscience during Academic Review and Planning Advisory Committee (ARPAC) report
<b>2017</b>	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)
<b>2016-present</b>	Institutional Animal Care and Use Committee (IACUC) Member 2017-present Co-Chair of IACUC
<b>2016-2017</b>	Committee member, Faculty Advisor for Research Dashboard Development of online system to manage research and grant-related administrative items
<b>2016</b>	Committee member, Provost Achievement Awards evaluation
<b>2013-2014</b>	Faculty Mentor, First Year Experience
<b>2010</b>	Workshop Panelist – Topic: How to Run a Research Laboratory PUEC Committee for Dr. Donna Louie

## PROFESSION EDITORIAL

<b>2016-present</b>	Associate Editor, <i>Genes, Brain, and Behavior</i>
<b>2012</b>	Associate Editor for special issue "Non-coding RNA and Drugs of Abuse" in <i>Frontiers in Genetics</i>

## GRANT REVIEWS

<b>2021</b>	NIH NIDA Special Emphasis Panels (two; no longer list exact panel to maintain confidentiality)
<b>2020</b>	NIH ZAA1-DD(C2) NIAAA reviews of SBIR applications for Data Science Tools for Acceleration of Alcohol Research
<b>2019</b>	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>
<b>2018</b>	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
<b>2017</b>	NIH ZRG1 F02A, Fellowships: <i>Behavioral Neuroscience</i> , 2 meetings
<b>2011-2016</b>	NIH Genes, Health, and Disease Study Section, regular member
<b>2014</b>	Tobacco-Related Disease Research Program, University of California Nicotine Dependence Study Section

NIH NIDA P60 Center Grant Review

**2013**

Florida Biomedical Research Program (*ad hoc*)

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, *ad hoc* 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 (*ad hoc*)

**2009-2010**

Florida Biomedical Research Program (*ad hoc*)

**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 (*ad hoc* 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**

**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

**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<sup>st</sup> 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<sup>rd</sup> 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-present** American Society of Human Genetics Mentor Network Member

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES

**2004-present** Research Society on Alcoholism (RSA)  
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

**2019-present**

International Behavioural and Neural Genetics Society (IBANGS)

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)