

DATE PREPARED: December 12, 2018

## CURRICULUM VITAE

MARISSA AILEEN EHRINGER, PH.D.

### PERSONAL INFORMATION:

Address: Institute for Behavioral Genetics  
University of Colorado at Boulder  
447 UCB  
Boulder, CO 80309  
Office Phone: 303.492.1463  
Office Fax: 303.492.8063  
Lab Phone: 303.492.5664  
Email: [Marissa.Ehringer@colorado.edu](mailto:Marissa.Ehringer@colorado.edu)

### 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 Colorado Health 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

### 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

- January-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
- 1994-1995           **Research Assistant**  
Department of Biology, Laboratory of Norman Pace  
Indiana University, Bloomington, IN
- 1993                 **Research Assistant**  
Department of Biology, Laboratory of Gretchen Kirchner  
Indiana University Southeast, New Albany, IN

**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”, provided molecular and statistical genetics expertise for candidate gene studies
- 2008                 Ad hoc consultant for the **GENEVA** study (Gene Environment Association Studies), part of the Genes, Environment and Health Initiative (GEI)
- 2005, 2008, 2016   **Technology Consultant**  
L.E.K. Consulting LLC  
Boston, MA
- 2005                 **Research Consultant**  
Faegre & Benson, Patent Lawyers  
Boulder, CO

**AWARDS AND HONORS:**

2001-2002	<b>Postdoctoral Training Fellowship</b> University of Colorado Health Sciences Center, Denver, CO
2000-2001	<b>Graduate Student Training Fellowship</b> Institute for Behavioral Genetics, University of Colorado, Boulder, CO
1994	<b>Undergraduate Research Grant</b> Department of Biology, Indiana University, Bloomington, IN
1995	<b>Undergraduate Research Grant</b> Department of Biology, Indiana University, Bloomington, IN
1993	<b>Intercampus Undergraduate Summer Research Grant</b> Indiana University / IU Southeast, Bloomington, IN / New Albany, IN
1991-1995	<b>Member</b> Honors Division, Indiana University, Bloomington, IN
1991-1992	<b>Member</b> Phi Eta Sigma Freshman Honor Society

**GRANTS: ACTIVE (PI & CO-I), PENDING (PI & CO-I), & COMPLETED****ACTIVE**

<u>Research Funding</u>	<u>Period</u>	<u>Award Total</u>
"Dissecting the Genetic Predisposition for Opioid Self Administration using at Rat Model", <b>Skaggs School of Pharmaceutical Sciences</b> , AMC, MPI with Laura Saba and Ryan Bachtell	2018-2019	\$50,000
"Role of miR-138 in nicotine behaviors using a mouse model", <b>LEAP Seed grant, University of Colorado</b>	2018-2019	\$9,000
"Examining the role of a GCKR polymorphism in alcohol-related behaviors in mice", R03 AA026733, <b>NIH, Co-Investigator</b>	2018-2020	\$100,000
<u>Training Grants</u>	<u>Period</u>	<u>Award Total</u>
"Research Training: Genetics of Substance Abuse" T32 DA017637, <b>NIH, Co-Investigator</b>	2009-2019	\$1,328,984

**COMPLETED**

<u>Title and Source: Research Funding</u>	<u>Period</u>	<u>Award Total</u>
"Translational Studies of Nicotinic Receptor Genes: Alcohol	2009-2014	\$2,747,347

and Nicotine" R01 AA017889, <b>NIH, Principal Investigator</b>	(NCE)	
"Center on Antisocial Drug Dependence: The Genetics of HIV Risk Behaviors" P60 DA011015 (PI: Hewitt), <b>NIH, Co-Investigator on Core B Data Management, Informatics, and Biostatistics</b>	2009-2014	\$14,400,000 total; \$1,400,000 for Core B
"Nicotinic Receptor Genes & Substance Abuse: Functional Studies of Associated SNPs" R21 DA026901, <b>NIH, Principal Investigator as Multiple PI plan with Dr. Jerry Stitzel</b>	2009-2011 (no-cost extension thr 2012)	\$876,204
"Genetics of Adolescent Antisocial Drug Dependence" R01 DA012845 (PI: Hewitt), <b>NIH, Co-Investigator</b>	2008-2012	\$2,443,536
"Molecular Genetics and Behavior: Alcohol and Tobacco Use" K01 AA015336 Mentored Career Award, <b>NIH, Principal Investigator</b>	2005-2010	\$643,109
"Functional Characterization of Nicotinic Receptor Genes Associated with Smoking Behavior and Lung Cancer" IRG #57-001-47 <b>Seed Grant, American Cancer Society, Principal Investigator of Seed Award</b>	2008-2009	\$10,000
"The National Longitudinal Study of Adolescent Health P01 HD31921 (PI: Harris), Subcontract to IBG, Project V (PI: Hewitt): Gene*Environment Contributions to Drug Use and Problem Behavior Trajectories", <b>NIH, Co-Investigator</b>	2006-2010	\$526,830 to IBG
"Antisocial Drug Dependence: Genetics" P60 DA011015 (PI: Crowley), <b>NIH, Co-Investigator on Assessment Core B</b>	2003-2009	\$34,839
"Resequencing of 5' region in CHRN3 gene" Pilot project for P60 DA011015 (PI: Crowley), <b>NIH, PI of pilot project</b>	2007-2008	\$29,400
"Prospective Associations Among Genes, Stress, and Depression" (PI: Whisman) <b>NARSAD, Co-Investigator</b>	2005-2007	\$100,000
"Genetic Association and Stratification: Alcoholism" R01 AA014250 (PI: Smolen), <b>NIH, Co-Investigator</b>	2003-2006	\$425,000
"Searching for Genes Involved in Alcohol and Tobacco Addiction" Grant-in-Aid, Council on Research and Creative Work (CRCW), <b>University of Colorado, Principal Investigator</b>	2004-2005	\$6997
"How are Running (Exercise) and Alcohol Preference Related in a Mouse Model" Junior Faculty Development Award, Council on Research and Creative Work (CRCW), <b>University of Colorado, Principal Investigator</b>	2005-2006	\$5000

“Candidate Genes for Tobacco Use and Nicotine Dependence” Supplement #4S-003 <b>Colorado Tobacco Research Program, Principal Investigator</b>	2004-2005	\$100,000
“Targeting SNPs in the CNR1 gene for Marijuana Association Study Component 6 – Pilot Project” P60 DA011015 (PI: Crowley), <b>NIH, PI of pilot project</b>	2004	\$20,000
“Candidate Genes for Tobacco Use and Dependence” Innovative Developmental and Exploratory Award (IDEA 1535688), <b>Colorado Tobacco Research Program, Principal Investigator</b>	2002-2004	\$110,250
<u>Sponsor of Individual Career Development Awards</u>		
“Genetics of Alcohol and Nicotine Behaviors” K01 AA019447, NIH, Sponsor (PI: Dr. Helen Kamens)	2011-2016	\$675,000
<u>Training Grants</u>		
“Research Training: Biological Sciences” T32 MH016880, <b>NIH, Co-Investigator</b>	2010-2015	\$1,134,373

**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.

**ORIGINAL RESEARCH MANUSCRIPTS PUBLISHED OR IN PRESS (Peer Reviewed)**

2018

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 (in press) Common and rare variants analysis of smoking related traits among current and former smokers of European and African ancestry. *Nicotine and Tobacco Research*.

2017

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*, [EPub ahead of print]

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.

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

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.

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.

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.

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. 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

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.

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

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.

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.

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

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.

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. 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 Gene Cluster are Associated with Onset of Regular Smoking. *Genetic Epidemiology*. 37(8):846-859.

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.

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

46. H. Kamens<sup>\*\*\*</sup>, 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.

45. T. Darlington<sup>\*\*</sup>, **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

44. H.M. Kamens<sup>\*\*\*</sup>, 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.

43. J.S. Zeiger, B.C. Haberstick, R.P. Corley, **M.A. Ehringer**, T.J. Crowley, J.K. Hewitt, C.J. Hopfer, M.C. Stallings, S.E. Young, S.H. Rhee. (2012) Subjective effects for alcohol, tobacco, and marijuana association with cross-drug outcomes, *Drug and Alcohol Dependence*, 123 Suppl 1:S52-58.

42. G.H. Lubke, S.H. Stephens<sup>\*\*\*</sup>, J.M. Lessem, J.K. Hewitt, and **M.A. Ehringer**. (2012) The *CHRNA5/A3/B4* gene cluster and tobacco, alcohol, cannabis, inhalants and other substance use initiation: Replication and new findings using mixture analyses, *Behavior Genetics* 42(4):636-646.

41. S.M. Hartz, S. Short, N.L. Saccone, R. Culverhouse, L.S. Chen, T. Schwantes-An, H. Coon, Y. Han, S.H. Stephens<sup>\*\*\*</sup>, J. Sun, X. Chen, F. Ducci, N. Dueker, N. Franceschini, J. Frank, F. Geller, D Guðbjartsson, N Hansel, C Jiang, K Keskitalo-Vuokko, J Liu, L Lyytikäinen, M Michel, R Rawal, A. Rosenberger, P. Scheet, J.R. Shaffer, A. Teumer, J.R. Thompson, J.M. Vink, N. Vogelzangs, A. Wenzlaff, W. Wheeler, X. Xiangjun, B.Z. Yang, S.H. Aggen, A. Balmforth, S. Baumeister, T. Beaty, S. Bennett, A. Bergen, H. Boyd, U. Broms, H. Campbell, N. Chatterjee, J. Chen, Y.C. Cheng, S. Cichon, D. Couper, F. Cucca, D. Dick, T. Foroud, H. Furberg, I. Giegling, F. Gu, A.S. Hall, J. Hällfors, S. Han, A.M. Hartmann, C. Hayward, K. Heikkilä, J.K. Hewitt, J.J. Hottenga, M. Jensen, P. Jousilahti, M. Kaakinen, S. Kittner, B. Konte, T. Korhonen, M.T. Landi, T. Laatikainen, M. Leppert, S.M. Levy, R. Mathias, D.W. McNeil, S. Medland, G. Montgomery, T. Muley, T. Murray, M. Nauck, K. North, M. Pergadia, O. Polasek, E. Ramos, S. Ripatti, A. Risch, I. Ruczinski, I. Rudan, V. Salomaa, D. Schlessinger, U. Styrkársdóttir, A. Terracciano, M. Uda, G. Willemsen, X. Wu, G. Abecasis, K. Barnes, H. Bickeböller, E. Boerwinkle, D.I. Boomsma, N. Caporaso, J. Duan, H.J. Edenberg, C. Francks, P.V. Gejman, J. Gelernter, H.J. Grabe, H. Hops, M.R. Jarvelin, V. Jorma, M. Kähönen, K.S. Kendler, T. Lehtimäki, D.F. Levinson, M.L. Marazita, J. Marchini, M. Melbye, B. Mitchell, J.C. Murray, M.M. Nöthen, B.W. Penninx, O. Raitakari, M. Rietschel, D Rujescu, N J Samani , AR Sanders, A Schwartz, S Shete, J Shi, M Spitz, K Stefansson, G. Swan, T. Thorgeirsson, H. Völzke, Q. Wei, H.E. Wichmann, C. Amos, N. Breslau, D. Cannon, **M. Ehringer**, R. Grucza, D. Hatsukami, A. Heath, E. Johnson, J. Kaprio, P. Madden, N.G Martin, V. Stevens, J.A. Stitzel, R.B. Weiss, P. Kraft, L.J. Bierut, (2012) Increased genetic vulnerability to smoking at *CHRNA5* in early-onset smokers, *Archives of General Psychiatry*, 69(8):854-60.

40. S.H. Stephens<sup>\*\*\*</sup>, N.R. Hoft<sup>\*\*\*</sup>, I.R. Schlaepfer<sup>\*\*</sup>, S.E. Young, R.C. Corley, M.B. McQueen, C. Hopfer, T. Crowley, M. Stallings, J. Hewitt, and **M.A. Ehringer**. (2012) Externalizing behaviors are associated with SNPs in the *CHRNA5/CHRNA3/CHRNA4* gene cluster. *Behavior Genetics*, 42(3): 402-414.



39. J.T. Sakai, T.J. Crowley, M.C. Stallings, M. McQueen, J.K. Hewitt, C. Hopfer, N.R. Hoff<sup>\*\*\*</sup>, **M.A. Ehringer**. (2012) Test of association between 10 single nucleotide polymorphisms in the oxytocin receptor gene and conduct disorder. *Psychiatric Genetics*, 22(2): 99-102.

## 2011

38. D.P. Howrigan, M.A. Simonson, H.M. Kamens, S.H. Stephens, A.G. Wills, **M.A. Ehringer**, M.C. Keller, and M.B. McQueen. (2011) Mutational load analysis of unrelated individuals. *BMC Proceedings*, 5(Suppl 9):S55.

37. B.C. Haberstick, **M.A. Ehringer**, J.M. Lessem, C.J. Hopfer, and J.K. Hewitt. (2011) Dizziness and the genetics influences on the subjective experiences to initial cigarette use. *Addiction*, 106(2): 391-399.

36. N.R. Hoff<sup>\*\*\*</sup>, J.A. Stitzel, K.E. Hutchison, and **M.A. Ehringer**. (2011) CHRN2 promoter region: association with subjective effects to nicotine and gene expression differences. *Genes, Brain, and Behavior*, 10(2):176-185.

35. V.E. Cosgrove, S.H. Rhee, H. Gelhorn, D. Boeldt, R.C. Corley, **M.A. Ehringer**, S.E. Young, and J.K. Hewitt. (2011) Structure and Etiology of Co-occurring Internalizing and Externalizing Disorders in Adolescents. *Journal of Abnormal Child Psychology*, 39(1):109-123.

## 2010

34. J.S. Zeiger, B.C. Haberstick, R.P. Corley, **M.A. Ehringer**, T.J. Crowley, J.K. Hewitt, C.J. Hopfer, M.C. Stallings, S.E. Young, and S.H. Rhee. (2010) Subjective effects to marijuana associated with marijuana use in community and clinical subjects. *Drug and Alcohol Dependence*. 109(1-3):161-166.

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**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

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

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.

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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.

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.

S. Stephens, N. Hoff, S. Hartz, N. Saccone, L. Bierut, M. 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.

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.

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.

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.

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*.

**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*.

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*.

N. Hoft, H. Kamens, J. Miyamoto, and M. Ehringer. (2010) The role of Chrna6 and Chrn3 genes in alcohol behaviors using mouse models. *ASHG Abstract Book, #2491*.

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.

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.

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.

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.

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*.

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*.

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*.

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*.

**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.

**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.

N. Hoft, I. Schlaepfer, R. Corley, S. Young, B.C. Haberstick, D. Huizinga, S. Menard, and **M. Ehringer**. (2007) Genetic Association of the CHRNA6 and CHRN3 genes with tobacco dependence in a nationally representative sample. *AJHG Abstract Book #2340, p.444*.

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-CHRN4 Gene Cluster with Behavioral Disinhibition in Young Adults. *AJHG Abstract Book #1969, p.379*.

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.

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.

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

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.

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.

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.

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.

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.

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.

**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.

**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.

**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.

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.

**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.

**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.

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.

**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.

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.

**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:**

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.

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:**

**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

**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

**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

**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

**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. Sapporo, Japan.

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.

**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

**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 *Chrna6* and *Chrn3* 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

**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 co-morbidity of alcohol and nicotine dependence” 10<sup>th</sup> Annual Meeting of the International Behavioural and Neural Genetics Society, Portland, OR

**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

**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**

**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

**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

**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

**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

**Ehringer, M.A.** (2008) “Of Mice and Men: A translational study of nicotinic receptor genes and drug behaviors” Department of Psychology, IUPUI, Indianapolis, IN

**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

**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

**Ehringer, M.A.** (1993) “Using Photobiotin as a Nonradioactive Label for rRNA” Annual Meeting of Indiana Academy of Science

#### **LOCAL COLLOQUIA/WORKSHOPS**

**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

**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

**Ehringer, M.A.** (2014) “Booze, Butts, and Genes: Nicotinic Receptors” Department of Pharmacology, School of Medicine, University of Colorado Anschutz Medical Campus, Aurora, CO

**Ehringer, M.A.** (2013) “Booze, Butts, and Genes: Nicotinic Receptors in Alcohol and Tobacco Behaviors” Department of Integrative Physiology, University of Colorado, Boulder, CO

**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

**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

**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

**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

**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

**Ehringer, M.A.** (2005) “Evidence for Association Between the CNR1 Gene and Marijuana Dependence” Department of Integrative Physiology, University of Colorado, Boulder, CO

**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

**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

**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:**

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)

X. Gallego, R.J. Cox, J.R. Laughlin, J.A. Stitzel, **M.A. Ehringer**. (2013) The allelic effects of SNPs 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)

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 DEVELOPMENT:**

- 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; learning NexGen Sequencing technology and epigenetic methods
- 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
- 2007 FBAT Short Course, 2-day intensive workshop, Boulder, CO
- 2005 Educational Sessions on Family-Based Association Tests: The FBAT and PBAT Approaches, World Congress on Psychiatric Genetics Conference, Boston, MA
- 2003 Sixteenth International Workshop on the Methodology of Twin and Family Studies, Advanced Course, Institute for Behavioral Genetics, University of Colorado, Boulder, USA
- 2001 Fourteenth International Workshop on the Methodology of Twin and Family Studies, Advanced Course, Institute for Behavioral Genetics, University of Colorado, Boulder, USA
- 2000 QTL Workshop, sponsored by National Institute on Alcohol Abuse and Alcoholism
- 2000 The Genetics of Complex Disease, Prelude to the American Society of Human Genetics Meeting, Philadelphia, PA



- 2000 Thirteenth International Workshop on the Methodology of Twin and Family Studies, Introductory Course, Institute for Behavioral Genetics, University of Colorado, Boulder, USA
- 2000 Genetics Computer Group scientific software training, Denver, CO
- 1999 Genetics and Ethics Conference, Aspen, CO

**TEACHING CONTRIBUTIONS:**

**UNIVERSITY COURSES:**

University of Colorado, Boulder, CO

Undergraduate courses

- IPHY2800** Introduction to Statistics  
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  
FA2107, FA2016, FA2015, FA2014, FA2013, FA2012  
Total students: 2-4 students each semester
- IPHY4860** Independent Study  
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

- 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”
- 2002 Lecturer, Undergraduate Behavior Genetics PSYC 3102 (Spring)  
“Bioinformatics resources associated with the Human Genome Project”
- 2002 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

- 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**

- 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-present Naomi Friedman, Assistant Professor, Faculty Fellow IBG  
Department of Psychology, University of Colorado, Boulder, CO

**Supervised Trainees (Primary Mentor)**

\* Indicates co-author on published abstract

# Indicates co-author on published manuscript.

University of Colorado, Boulder, CO

**Current postdoctoral trainees:**

2014-present Matthew Powers, Ph.D.

**Former postdoctoral trainees:**

2010-2014 Xavier Gallegos, Ph.D.  
Current position: Chief Science Office and Co-Founder  
Cycle Bioengineering (www.cyclebioengineering.com)

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

2009-2013 \*#Helen Kamens, Ph.D.  
Current position: Assistant Professor (tenure track)  
The Pennsylvania State University  
Department of Biobehavioral Health  
University Park, PA

2008-2011 \*#Sarah Holly Stephens, Ph.D.  
Current position: Results Analyst  
ICF International (clinicaltrials.org)

2006-2009 \*#Nicole Hoft, Ph.D.

**Foreign scholar trainees:**

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:**

2018-present Aimee Thomas, Integrative Physiology, MS candidate

2018-present Jakob Morawiec, Integrative Physiology, MS candidate

2016-present Winona Booher, Integrative Physiology, MS, current PhD candidate

**Former graduate trainees:**

2012-2017 Sonya Belimezova, Ph.D. Integrative Physiology

2013-2016 Kristin Rasmus, Ph.D. Psychology and Neuroscience  
Current position: Scientific Communications Specialist  
ArcherDX, Inc., Boulder, CO

2010-2015 \*Whitney Melroy, Ph.D. Integrative Physiology  
Current position: Postdoctoral fellow

2012-2014 Riley McCarthy, Integrative Physiology, BA/MS

2008-2012 \*# Todd Darlington, Ph.D. Integrative Physiology  
Current position: Postdoctoral fellow  
University of Utah School of Medicine  
Department of Psychiatry  
Salt Lake City, Utah

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

2018 Lucy Hall, IPHY student (**INDST**)  
 2018 Madison Paul, Neuroscience major (**INDST**)  
 2018 Eliza Elliotte, Psychology, Hollins University (**SMART**)  
 2017 Eiley McCormick, IPHY student, Faculty sponsor for Internship on Spinal Chord Injury Recovery  
 2017-2018 Claire Kazen, IPHY student (**Honors Thesis**)  
 2017-present Rachel Mahoney, MCDB student (**BSI**)  
 2017 - present Gabriel Villavicencio, IPHY student (**INDST**)  
 2017 Marcus Ferrara, IPHY student (**INDST**)  
 2017-2018 Drake Giese, IPHY student (**INDST**)  
 2017 Alyssa Johnson, Psychology/Neuroscience, Virginia Polytechnic Institute and State University (**SMART**)  
 2017 Brooke Gallagher, IPHY student (**INDST**)  
 2016-2017 Kaylee Dykstal, IPHY student (**INDST**)  
 2016 Aliyah Bolton, Neuroscience & French Studies, Scripps College (**SMART**)  
 2016 Sasha Hill, IPHY student (Faculty sponsor for internship at dental office)  
 2016 Connor Brown, IPHY student, (**INDST, UROP, Honors Thesis**)  
 2016 Erik Debloois, MCDB student (**INDST**)  
 2015-2016 Kristin Allen, IPHY student (**INDST, BURST, UROP**)  
 2015-2016 Kirsten Chun, IPHY student (**INDST**)  
 2015-2016 Tyler Fox, IPHY student (**INDST**)  
 2015 Robin Hacker-Cary, IPHY student (**PRACTICUM IN IPHY**)  
 2015 Alissa DiMasi, undergraduate at Regis University (**SMART**)  
 2014-2015 Chris Klene, Independently Structured Major in Public Health (**BURST**)  
 2014-2015 Kelsey Fitzgerald, IPHY student (**INDST, Honors Thesis**)  
 2014-2015 Jordan Hood, IPHY student (**INDST**)  
 2014 Michael Melendez, undergraduate at University of Puerto Rico (**SMART**)  
 2014 Christiana Vonu, Faculty sponsor for Internship on Spinal Chord Injury Recovery, IPHY student  
 2014 Eric Lenser, IPHY student  
 2012-2013 Marissa Soto, UC Denver undergraduate, course credit for PSYC 3939  
 2012-2013 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**)  
 2010-2011 Brian Wanner, IPHY student (**INDST**)  
 2009-2011 Maricarmen Stout, IPHY student (**INDST**)

2009-2010	Elizabeth Funk, IPHY student ( <b>INDST</b> )
2008-2010	* Beth Chitel, Psychology student ( <b>INDST</b> )
2010	Coral Cabrera, undergraduate at University of Puerto Rico ( <b>SMART</b> )
2009	Laura Rosado Maldonado, undergraduate at University of Puerto Rico ( <b>SMART</b> )
2009	Nathaniel Edelman, undergraduate at Cornell University, summer intern
2008-2009	* Tatiana Fofanova, EBIO and ANTH student
2008	* Lucia Vidable, undergraduate at Emory University ( <b>SMART</b> )
2007-2008	Stephen Faulkner, IPHY student ( <b>UROP, INDST</b> )
2007-2008	* Jessica Godfrey, IPHY student ( <b>INDST, Honors Thesis</b> )
2005-2008	Stacy Romero, IPHY and MCDB student ( <b>HHMI, Honors Thesis</b> )
2007	Vanessa Selwyn, undergraduate at New Mexico State Univ ( <b>SMART</b> )
2006	Garland Deshazer, undergraduate at Emory University ( <b>SMART</b> )
2005-2007	Priyanka Thummalapally, MCDB student ( <b>URAP, UROP, SURF, Honors Thesis</b> )
2004-2007	Marianne LaBorde, MCDB student ( <b>URAP, UROP, Honors Thesis</b> )
2004-2005	Daniel Oliver, MCDB student ( <b>UROP</b> )
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)

<u>Title and Source: Student Support Grants</u>	<u>Period</u>	<u>Award Total</u>
"Voluntary Alcohol Consumption in Inbred Mice Selected for Differences in Open Field Activity", <b>University of Colorado, Faculty Mentor, Drake Giese, Integrative Physiology Undergraduate Research Award, Faculty Sponsor</b>	2018	\$2000
"In vivo effects of miR-138 on CHRN4 expression in females", <b>University of Colorado, Faculty Mentor for Connor Brown, BSI Scholar, Faculty Sponsor</b>	2017-2018	\$2500
"In vivo effects of miR-138 on CHRN4 expression", <b>University of Colorado, Faculty Mentor for Connor Brown, Undergraduate Research Opportunities Program, Faculty Sponsor</b>	2016-2017	\$1200
"The Effects of miR-138 on Nicotine and Alcohol-like behaviors", <b>University of Colorado, Faculty Mentor for Kristin Allen, Undergraduate Research Opportunities Program, Faculty Sponsor</b>	Summer 2016	\$2340
"Comparing Recent Results from Genome-Wide Association Studies of Schizophrenia to Hypothesis-Driven Candidate Gene Studies" <b>University of Colorado, Faculty Mentor for Chris Klene, BURST, Faculty Sponsor</b>	2014-2015	\$2160
"Functional Studies of Human Single Nucleotide Polymorphisms (SNPs)" <b>University of Colorado, Faculty Mentor for Krista Johnson, Undergraduate Research Award Program, Sponsor</b>	2011-2012	\$1200

“Association between Nicotinic Receptor Genes (CHRNA3, A5, A6, B2, B3, B4) and Subjective Responses to Tobacco” <b>University of Colorado, Faculty Mentor for Stephen Faulkner, Howard Hughes Medical Institute Undergraduate Research Program, Sponsor</b>	2007-2008	\$2304
“Attempted Replication of Association between Nicotinic Receptor Genes and Tobacco Behaviors” <b>University of Colorado, Faculty Mentor for Stephen Faulkner, Summer Undergraduate Research Funding, Sponsor</b>	2007	\$2500
“Genetic correlation between exercise and alcohol consumption” <b>University of Colorado, Faculty Mentor for Priyanka Thummalapally, Summer Undergraduate Research Funding, Sponsor</b>	2006	\$2000
“Possible Association Between Neuronal Nicotinic $\alpha 6$ and $\beta 3$ Receptor Subunits and Alcohol and Drug Problems” <b>University of Colorado, Faculty Mentor for Marianne LaBorde, Undergraduate Research Opportunities Program, Sponsor</b>	2006	\$1000
“Candidate Genes for Nicotine and Alcohol Abuse” <b>University of Colorado, Faculty Mentor for Marianne LaBorde, Undergraduate Research Opportunities Program, Sponsor</b>	2005-2006	\$1200
“Alcohol Preference Testing in Mice” <b>University of Colorado, Faculty Mentor for Priyanka Thummalapally, Undergraduate Research Opportunities Program, Sponsor</b>	2005-2006	\$2232
“Candidate Genes for Marijuana Use” <b>University of Colorado, Faculty Mentor for Priyanka Thummalapally, Undergraduate Research Assistantship Program, Sponsor</b>	2005	\$2430
“Does Exercise Lower Alcohol Preference in High-Drinking Mouse Strains?” <b>University of Colorado, Faculty Mentor for Daniel Oliver, Undergraduate Research Opportunities Program, Sponsor</b>	2004-2005	\$1200
“Possible Association between Neuronal Nicotinic subunits and Drug and Alcohol Problems” <b>University of Colorado, Faculty Mentor for Marianne LaBorde, Undergraduate Research Opportunities Program, Sponsor</b>	2004-2005	\$800

**Supervised Trainees (Not Primary Mentor):**

University of Colorado, Boulder, CO

Ph.D. Dissertation Committees

2018-present	Jordan Buck, Integrative Physiology
2018-present	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-present	Spencer Huggett, Psychology and Neuroscience
2016-present	Mengzhen Liu, Psychology and Neuroscience
2016-2017	Emma Johnson, Psychology and Neuroscience
2016-2017	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.A. Thesis Committees

2018	Marko Melnick, Integrative Physiology
2016	Carolyn Ardizzone, Integrative Physiology
2008	Sheila Maier, Integrative Physiology

Undergraduate Honors Thesis Committees

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

**TEACHING ENHANCEMENT**

University of Colorado, Boulder, CO

Faculty Teaching and Excellence seminars:

- Science Education Initiative Workshops (Fall 2006)
- Classroom Learning Assessment Institute (5-day workshop; June 2006)
- Are Your Students Learning the Main Concept (2006)
- Teaching by Leading a Discussion (2005)
- Tenure and Promotion II (2004)
- Performance in a Nutshell (2 session series, 2004)
- Tenure and Promotion (2004)
- Time Management (2003)
- Getting Your Research Funded (2003)

Leadership Education for Advancement and Promotion (LEAP) 4-day intensive workshop (2004), University of Colorado, Boulder

LEAP follow-up lectures:

- Women, Inclivity, and Power: How to Achieve Personal Authority (2006)
- Mastering Personal Productivity, presented by Laura Stack (2005)

**SERVICE CONTRIBUTIONS**

**UNIVERSITY**

Service to the Institute for Behavioral Genetics

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

Service to the Department of Integrative Physiology

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|--------------|---|
| 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  |
| 2012         | PUEC Committee for Dr. Matthew McQueen, Promotion and Tenure to Associate Professor, Research component |
| 2012         | Classroom Interview Visit and Teaching Peer Review for Dr. Donna Louie                                  |
| 2010         | PUEC Committee for Owen Murphy  |
| 2010         | Teaching Peer review of faculty – Owen Murphy   |
| 2009-present | Member, Science Education Initiative committee to establish Statistics curriculum                       |



2008 Teaching Peer review of faculty – Monika Fleshner  
2006 Teaching Peer review of faculty – Laurence Greene  
2005 Teaching Peer review of faculty – Adam Hayes

Service to the University of Colorado

2017 Member, Reappointment Committee for Dr. John Hewitt as IBG Director  
2017 Faculty reviewer for UROP Individual and Team grants (28 applications)  
2017 Faculty reviewer for Norlin Scholar selection (reviewed 15 applicants)  
2016-present Institutional Animal Care and Use Committee (IACUC), Member  
2017-present 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  
2010 PUEC Committee for Dr. Donna Louie

**PROFESSION**

**Editorial:**

2016-present Associate Editor, *Genes, Brain, and Behavior*  
2012 Associate Editor for special issue “Non-coding RNA and Drugs of Abuse”  
in *Frontiers in Genetics*

**Manuscript reviews:**

Addiction Biology  
Aggressive Behavior  
Alcohol  
Alcoholism: Clinical and Experimental Research  
Behavioral Genetics  
Bioinformatics  
Biological Psychiatry  
BMC Genomics  
Cancer Research  
Genes, Brain, and Behavior  
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

**Grant reviews:**

2018 NIH Genes, Health, and Disease Study Section, *ad hoc*  
2018 NIH NIDA P30/P50 Center Grant Reviews  
2018 Tobacco-Related Disease Research Program, University of California  
2017 NIH ZRG1 F02A, Fellowships: *Behavioral Neuroscience*, 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  
2014 NIH NIDA P60 Center Grant Review  
2013 Florida Biomedical Research Program (*ad hoc*)  
2013 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  
2010 NIH Molecular Genetics A, Special Emphasis Panel/Scientific Review Group grant  
reviewer  
2010 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  
2009 Alcohol Center for Translational Genetics, Ernest Gallo Clinic and Research  
Center (*ad hoc* review of Pilot Projects)  
2009 Medical Research Council, United Kingdom (*ad hoc*)  
2007 North Carolina Biotechnology Center (*ad hoc*)  
2004 US Army Medical Research and Materiel Command (*ad hoc*)

**External Letters of Review for Promotion & Tenure, Advanced Appointments**

2011, 2015, 2017

**International consortium:**

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

**OUTREACH**

2017-2018 Communities that Care, Advisor for Broomfield, CO program to prevent  
drug use and addiction  
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
2009	Max Ciaglo and Jordan Smith – seniors at Monarch High School Guest Lecture “Genetics of Alcohol and Tobacco Use” Denver Museum of Nature and Science
2009-2011	Teacher Institute Workshop on “Genetics of Taste: A Flavor for Health” “DNA Day” at Mountainview Elementary School classes, Broomfield, CO
2008-2009	Mentor for Science Research Seminar course through Boulder Valley School District
2007-2008	Carey Fluornoy and Jack Evans – seniors at Monarch High School Mentor for Science Research Seminar course through the Boulder Valley School District
2007	Nathan Rolston – senior at Monarch High School 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
2004-present	Cara Leuders – sophomore at Nederland High School American Society of Human Genetics Mentor Network Member

**MEMBERSHIPS IN PROFESSIONAL SOCIETIES:**

2004-present	Research Society on Alcoholism (RSA)
2015-present	Board Member (elected position)
2015	Program Committee Member for Annual Meeting in San Antonio, TX
2018	Program Committee Member for Annual Meeting in San Diego, CA
2008-present	International Behavioural and Neural Genetics Society (IBANGS)
2016-present	President-Elect/President/Past-President (2016-2018)
2014-2016	Member, Awards Committee (Chair, 2015-2016)
2010-2013	Treasurer, IBANGS (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
2015	Program Committee Member for Annual Meeting in Uppsala, Sweden
2009-present	Society for Research on Nicotine and Tobacco (SRNT)
2010-present	Genetics Advisory Committee
2014-2017	Genetics Advisory Committee co-Chair (elected position)
2011	Program Committee Member for Annual Meeting in Houston, TX
2015	Program Committee Member for Annual Meeting in Philadelphia, PA
2016	Program Committee Member for Annual Meeting in Chicago, IL
2009-2015	International Society of Psychiatric Genetics (ISPG)
2004-present	American Society of Human Genetics (ASHG)
2004-2016	Behavioral Genetics Association (BGA)