

DATE PREPARED: January 16, 2020.

CURRICULUM VITAE

MARISSA AILEEN EHRINGER, PH.D.

PERSONAL INFORMATION:

Address: Institute for Behavioral Genetics
University of Colorado at Boulder
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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 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 **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
- 1995 **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

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”, Skaggs School of Pharmaceutical Sciences , AMC, MPI with Laura Saba and Ryan Bachtell	2018-2019	\$50,000
“Examining the role of a GCKR polymorphism in alcohol-related behaviors in mice”, R03 AA026733, NIH, Co-Investigator	2018-2020	\$100,000

<u>Training Grants</u>	<u>Period</u>	<u>Award Total</u>
“Research Training: Genetics of Substance Abuse” T32 DA017637, NIH, Co-Investigator	2009-2019	\$1,328,984

COMPLETED

<u>Title and Source: Research Funding</u>	<u>Period</u>	<u>Award Total</u>
“Role of miR-138 in nicotine behaviors using a mouse model”, LEAP Seed grant, University of Colorado	2018-2019	\$9,000

“Translational Studies of Nicotinic Receptor Genes: Alcohol and Nicotine” R01 AA017889, NIH, Principal Investigator	2009-2014 (NCE)	\$2,747,347
“Center on Antisocial Drug Dependence: The Genetics of HIV Risk Behaviors” P60 DA011015 (PI: Hewitt), NIH, Co-Investigator on Core B Data Management, Informatics, and Biostatistics	2009-2014	\$14,400,000 total; \$1,400,000 for Core B
“Nicotinic Receptor Genes & Substance Abuse: Functional Studies of Associated SNPs” R21 DA026901, NIH, Principal Investigator as Multiple PI plan with Dr. Jerry Stitzel	2009-2011 (no-cost extension thr 2012)	\$876,204
“Genetics of Adolescent Antisocial Drug Dependence” R01 DA012845 (PI: Hewitt), NIH, Co-Investigator	2008-2012	\$2,443,536
“Molecular Genetics and Behavior: Alcohol and Tobacco Use” K01 AA015336 Mentored Career Award, NIH, Principal Investigator	2005-2010	\$643,109
“Functional Characterization of Nicotinic Receptor Genes Associated with Smoking Behavior and Lung Cancer” IRG #57-001-47 Seed Grant, American Cancer Society, Principal Investigator of Seed Award	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”, NIH, Co-Investigator	2006-2010	\$526,830 to IBG
“Antisocial Drug Dependence: Genetics” P60 DA011015 (PI: Crowley), NIH, Co-Investigator on Assessment Core B	2003-2009	\$34,839
“Resequencing of 5’region in CHRNA3 gene” Pilot project for P60 DA011015 (PI: Crowley), NIH, PI of pilot project	2007-2008	\$29,400
“Prospective Associations Among Genes, Stress, and Depression” (PI: Whisman) NARSAD, Co-Investigator	2005-2007	\$100,000
“Genetic Association and Stratification: Alcoholism” R01 AA014250 (PI: Smolen), NIH, Co-Investigator	2003-2006	\$425,000
“Searching for Genes Involved in Alcohol and Tobacco Addiction” Grant-in-Aid, Council on Research and Creative Work (CRCW), University of Colorado, Principal Investigator	2004-2005	\$6997
“How are Running (Exercise) and Alcohol Preference Related in a Mouse Model” Junior Faculty Development Award,	2005-2006	\$5000

Council on Research and Creative Work (CRCW), **University of Colorado, Principal Investigator**

“Candidate Genes for Tobacco Use and Nicotine Dependence” Supplement #4S-003 **Colorado Tobacco Research Program, Principal Investigator** 2004-2005 \$100,000

“Targeting SNPs in the CNR1 gene for Marijuana Association Study Component 6 – Pilot Project” P60 DA011015 (PI: Crowley), **NIH, PI of pilot project** 2004 \$20,000

“Candidate Genes for Tobacco Use and Dependence” Innovative Developmental and Exploratory Award (IDEA 1535688), **Colorado Tobacco Research Program, Principal Investigator** 2002-2004 \$110,250

Sponsor of Individual Career Development Awards

“Genetics of Alcohol and Nicotine Behaviors” K01 AA019447, NIH, Sponsor (PI: Dr. Helen Kamens) 2011-2016 \$675,000

Training Grants

“Research Training: Biological Sciences” T32 MH016880, **NIH, Co-Investigator** 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)

2020

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*, in press.

2019

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

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

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

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.

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. Foroud, H. Furberg, I. Giegling, N.A. Gillespie, F. Gu, A.S. Hall, J. Hällfors, S. Han, A.M. Hartmann, K. Heikkilä, I.B. Hickie, J.J. Hottenga, P. Jousilahti, M. Kaakinen, M. Kähönen, P.D. Koellinger, S. Kittner, B. Konte, M-T. Landi, T. Laatikainen, M. Leppert, S.M. Levy, R.A. Mathias, D.W. McNeil, S.E. Medlund, G.W. Montgomery, T. Murray, M. Nauck, K.E. North, P.D. Paré, M. Pergadia, I. Ruczinski, V. Salomaa, J. Viikari, G. Willemsen, K.C. Barnes, E. Boerwinkle, D.I. Boomsma, N. Caporaso, H.J. Edenberg, C. Francks, J. Gelernter, H.J. Grabe, H. Hops, M-R. Jarvelin, M. Johannesson, K.S. Kendler, T. Lehtimäki, P.K.E. Magnusson, M.L. Marazita, J. Marchini, B.D. Mitchell, M.M. Nöthen, B.W. Penninx, O. Raitakari, M. Rietschel, D. Rujescu, N.J. Samani, A.G. Schwartz, S. Shete, M. Spitz, G.E. Swan, H. Völzke, J. Veijola, Q. Wei, C. Amos, D.S. Canon, R. Gruzca, 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^{***}, 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^{**}, **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^{***}, 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^{***}, 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^{***}, J. Sun, X. Chen, F. Ducci, N. Dueker, N. Franceschini, J. Frank, F. Geller, D. Guðbjartsson, N. Hansel, C. Jiang, K. Kesitalo-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***, N.R. Hoff***, I.R. Schlaepfer**, 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***, **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***, J.A. Stitzel, K.E. Hutchison, and **M.A. Ehringer**. (2011) CHRNA2 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.

33. N.L. Saccone, R.C. Culverhouse, T.H. Schwantes-An, D.S. Cannon, X. Chen, S. Cichon, I. Giegling, S. Han, Y. Han, K. Keskitalo-Vuokko, X. Kong, M.T. Landi, J.Z. Ma, S.E. Short, S.H. Stephens***, V.L. Stephens, L. Sun, Y. Wang, A.S. Wenzlaff, S.H. Aggen, N. Breslau, P. Broderick, N. Chatterjee, J. Chen, A.C. Heath, M. Heliövaara, N.R. Hoff***, D.J. Hunter, M.K. Jensen, N.G. Martin, G.W. Montgomery, T. Niu, T.J. Payne, L. Peltonen, M.L. Pergadia, J.P. Rice, R. Sherva, M.R. Spitz, J. Sun, J.C. Wang, R.B. Weiss, W. Wheeler, S.H. Witt, B.Z. Yang, N.E. Caparaso, **M.A. Ehringer**, T. Eisen, S.M. Gapstur, J. Gelernter, R. Houlston, J. Kaprio, K.S. Kendler, P. Kraft, M.F. Lepper, M.D. Li, P.A.F. Madden, M.M. Nothen, S. Pillai, M. Rietschel, D. Rujescu, A. Schwartz, C.I. Amos, L.J. Bierut. (2010) Multiple independent loci at chromosome

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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. Hoft, 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 Chrnb3 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 Chrnb3 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 CHRNA2 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/CHRNA4 gene cluster with conduct disorder-related phenotypes. *ASHG Abstract Book*.

N.R. Hoft, J.A. Stitzel, K.E. Hutchison, and **M.A. Ehringer**. (2009) CHRNA2 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 (2019) Genetic and sex differences in the effect of wheel-running on voluntary alcohol consumption in mice. Winter Conference on Brain Research, Aspen, CO

M.A. Ehringer, M.S. Powers, L.M. Evans, J.C. DeFries (2018) Whole genome sequencing of replicate inbred strains of mice selected for high and low open-field activity. 20th Annual Meeting of the International Behavioural and Neural Genetics Society. *Selected talk

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. 2nd Annual Meeting of the Molecular Psychiatry Association. Presented in an invited symposium.

T.M. Darlington, R.D. McCarthy, R.J. Cox, J. Miyamoto-Ditmon, **M.A. Ehringer**. (2014) Voluntary exercise reduces voluntary consumption of ethanol in mice: Identification of candidate genes through striatal gene expression profiling. 16th Annual Meeting of the International Behavioural and Neural Genetics Society. Presented in a selected symposium.

M.A. Ehringer, T. Darlington, X. Gallego. (2014) Using a mouse model to study common neurobiological effects of alcohol and exercise. Society for Behavioral Medicine Annual Meeting. Program Book SY35, p.56.

M.A. Ehringer. (2014) Genetics of Smoking – Findings, Function, and Future Frontiers. Invited speaker at Pre-Conference Genetics Workshop at the Annual Meeting of the Society for Research on Nicotine and Tobacco. Seattle, WA

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. 16th Annual Meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD

Ehringer, M.A., Funk, E.M., Hoft, N.R., Stitzel, J.A., and Stephens, S.H. (2010) The role of CHRNA5/A3/B4 in early disinhibitory behaviors – Human molecular genetics. 16th Annual Meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD

Ehringer, M.A., Hoft, N.R., and Godfrey, J. (2010) The effects of voluntary wheel-running on alcohol consumption: Common responses across different genetic strains of mice. 12th Annual Meeting of the International Behavioural and Neural Genetics Society, Halifax, Nova Scotia, Canada

Ehringer, M.A. (2009) “The role of CHRNA6 and CHRNB3 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” 11th 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” 38th Annual Meeting of the Behavior Genetics Association, Louisville, KY

Ehringer, M.A. (2008) “Human studies of neuronal nicotinic receptor genes and their role in the co-morbidity of alcohol and nicotine dependence” 10th Annual Meeting of the International Behavioural and Neural Genetics Society, Portland, OR

Ehringer, M.A. (2007) “Is the CHRNB3 gene associated with nicotine behaviors?” 37th 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. (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

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" 33rd 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:

W.C. Booher, E. Elliotte, A. Prakash, **M.A. Ehringer** (2019) Alcohol-related behaviors in mice selectively bred for High and Low Activity. 21st Annual Meeting of the International Behavioural and Neural Genetics Society, Edinburgh, United Kingdom (selected talk presented by Winona Booher, PhD candidate)

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 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)

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

H.M. Kamens, M.B. McQueen, R.P. Corley, M.C. Stallings, J.K. Hewitt, and **M.A. Ehringer**. (2011) Association of the *CHRNA2* gene and DSM-IV nicotine dependence symptoms. 17th

Annual Meeting of the Society for Research on Nicotine and Tobacco, Toronto, Ontario, Canada (presented by Dr. Helen Kamens)

A.V. Flora, C. Zambrano, E.M. Funk, J. Miyamoto, J.A. Stitzel, and **M. A. Ehringer**. (2011) Functional analysis of SNPs in the intergenic region between *CHRNA3* and *CHRNA4*. 17th Annual Meeting of the Society for Research on Nicotine and Tobacco, Toronto, Ontario, Canada (presented by Dr. Amber Flora)

PROFESSIONAL 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
 - 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
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

- 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 2019 Omblin de Balathier Lantage, 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:

2019-present Pamela Romero, Psychology and Neuroscience, PhD candidate
 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

2019-present Katie Scanlon, IPHY student (**INDST**)
 2019-present Michaela Nelsen, IPHY student (**INDST**)
 2019-present Hanna Lavassani, IPHY student (**INDST**)
 2019-present Guillermo Reyes Martinez, IPHY student (**INDST, UROP, BSI**)
 2018-present Lucy Hall, IPHY student (**INDST**)
 2018-2019 Madison Paul, Neuroscience major (**INDST**)
 2018 Eliza Elliotte, 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)
2017-2019	Rachel Mahoney, MCDB student (BSI)
2017-2019	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 (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)
2009	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)
2007-2008	* 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)

<u>Title and Source: Student Support Grants</u>	<u>Period</u>	<u>Award Total</u>
"Alcohol behaviors in mice selected for High and Low Anxiety phenotypes", University of Colorado, Faculty Mentor, Guillermo Reyes Martinez, BSI Scholar, Faculty Sponsor	Academic Year 2019-2020	\$2500
"Alcohol behaviors in mice selected for High and Low Anxiety phenotypes", University of Colorado, Faculty Mentor, Guillermo Reyes Martinez, UROP Assistantship, Faculty Sponsor	Summer 2019	\$2000
"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	2018	\$2000
"In vivo effects of miR-138 on CHRNA4 expression in females", University of Colorado, Faculty Mentor for Connor Brown, BSI Scholar, Faculty Sponsor	2017-2018	\$2500
"In vivo effects of miR-138 on CHRNA4 expression", University of Colorado, Faculty Mentor for Connor Brown, Undergraduate Research Opportunities Program, Faculty Sponsor	2016-2017	\$1200
"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	Summer 2016	\$2340
"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	2014-2015	\$2160
"Functional Studies of Human Single Nucleotide Polymorphisms (SNPS)" University of Colorado, Faculty Mentor for Krista Johnson, Undergraduate Research Award Program, Sponsor	2011-2012	\$1200
"Association between Nicotinic Receptor Genes (CHRNA3,	2007-2008	\$2304

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**

“Attempted Replication of Association between Nicotinic Receptor Genes and Tobacco Behaviors” **University of Colorado, Faculty Mentor for Stephen Faulkner, Summer Undergraduate Research Funding, Sponsor** 2007 \$2500

“Genetic correlation between exercise and alcohol consumption” **University of Colorado, Faculty Mentor for Priyanka Thummalapally, Summer Undergraduate Research Funding, Sponsor** 2006 \$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** 2006 \$1000

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

“Alcohol Preference Testing in Mice” **University of Colorado, Faculty Mentor for Priyanka Thummalapally, Undergraduate Research Opportunities Program, Sponsor** 2005-2006 \$2232

“Candidate Genes for Marijuana Use” **University of Colorado, Faculty Mentor for Priyanka Thummalapally, Undergraduate Research Assistantship Program, Sponsor** 2005 \$2430

“Does Exercise Lower Alcohol Preference in High-Drinking Mouse Strains?” **University of Colorado, Faculty Mentor for Daniel Oliver, Undergraduate Research Opportunities Program, Sponsor** 2004-2005 \$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** 2004-2005 \$800

Supervised Trainees (Not Primary Mentor):

University of Colorado, Boulder, CO
Ph.D. Dissertation Committees

2018-present	Jordan Buck, Integrative Physiology
2018-2019	Alexander Hatoum, Psychology and Neuroscience
2018	Breanne Newell, Integrative Physiology
2017-2018	David Brazel, Molecular, Cellular, and Developmental Biology
2017-2018	Kerri Woodward, Psychology and Neuroscience
2017-2019	Spencer Huggett, Psychology and Neuroscience
2016-2017	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
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, 2019	Faculty Search Committee for new IBG hire
2004-2008	Director, IBG Graduation Training Program

Service to the Department of Integrative Physiology

2019-present	Welfare Committee
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
2009-2012	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

2019 Internal Review Committee member for Department of Psychology and Neuroscience during Academic Review and Planning Advisory Committee (ARPAC) report
 2017 Member, Reappointment Committee for Dr. John Hewitt as IBG Director
 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:

- 2019 NIH ZDA1-IXR-Q NIDA reviews of U01 grant applications
- 2019 NIH ZAA1CC50 P50 NIAAA Center grant applications
- 2019 NIH ZRG1 F02A, Fellowships: *Behavioral Neuroscience*
- 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

- 2017-2019 Communities that Care, Advisor for Broomfield, CO program to prevent drug use and addiction
- 2018-present Mentor for Fairview High School student, Anurdha Prakash
*Won 1st 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 3rd 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)
- 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)
- 2016-2019 President-Elect/President/Past-President (2016-2019)
- 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)