

DATE PREPARED: July 7, 2011.

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
- 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**
Department of Biochemistry and Molecular Genetics
Laboratory of Dr. Thomas Blumenthal
University of Colorado Health Sciences Center, Denver, CO
- 1996-1997 **Professional Research Assistant**
Department of Biology
Laboratory of Dr. J. Jose Bonner
Indiana University, Bloomington, IN
- 1995-1996 **Professional Research Assistant**
Department of Biology
Laboratory of Dr. Norman Pace
Indiana University, Bloomington, IN
- 1994-1995 **Research Assistant**
Department of Biology
Laboratory of Dr. Norman Pace
Indiana University, Bloomington, IN
- 1993 **Research Assistant**
Department of Biology
Laboratory of Dr. Gretchen Kirchner
Indiana University Southeast, New Albany, IN

PROFESSIONAL CONSULTATION:

- 2008 Ad hoc consultant for the **GENEVA** study (Gene Environment Association Studies), part of the Genes, Environment and Health Initiative (GEI)
- 2005, 2008 **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
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 / Indiana University 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>Title and Source: Research Funding</u>	<u>Period</u>	<u>Award Total</u>
"Translational Studies of Nicotinic Receptor Genes: Alcohol and Nicotine" R01 AA017889, NIH, Principal Investigator	2009-2014	\$2,747,347
"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	\$876,204
"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
"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
"Genetics of Adolescent Antisocial Drug Dependence" R01	2008-2012	\$2,443,536

DA012845 (PI: Hewitt), **NIH, Co-Investigator**

<u>Title and Source: Student Support</u>	<u>Period</u>	<u>Award Total</u>
"Research Training: Genetics of Substance Abuse" T32 DA017637, NIH, Co-Investigator	2009-2014	\$1,328,984
"Research Training: Biological Sciences" T32 MH016880, NIH, Co-Investigator	2010-2015	\$1,134,373
"Research Training: Developmental Behavioral Genetics" T32 HD007289, NIH, Co-Investigator	2010-2015	\$1,345,954

COMPLETED

<u>Title and Source: Research Funding</u>	<u>Period</u>	<u>Award Total</u>
"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
"Antisocial Drug Dependence: Genetics" P60 DA011015 (PI: Crowley), NIH, Co-Investigator on Assessment Core B	2003-2009	\$34,839
"Resequencing of 5'region in CHRN3 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, Council on Research and Creative Work (CRCW), University of Colorado, Principal Investigator	2005-2006	\$5000
"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
“The National Longitudinal Study of Adolescent Health Subcontract to IBG, Behavioral Genetic Analysis of Adolescent Health Risk” P01 HD31921 (PI: Hewitt), NIH, Co-Investigator	2002-2004	\$237,824 to IBG

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)

N.R. Hoff***, R.P. Corley, D. Huizinga, and **M.A. Ehringer**. Variation in CHRNA6 is associated with alcohol use behaviors in multiple samples. Under review at *Psychiatric Genetics*.

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**. Externalizing behaviors are associated with SNPs in the *CHRNA5/CHRNA3/CHRN4* gene cluster. Under review at *Behavior Genetics*.

2011

37. N.R. Hoff***, 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.

36. 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

35. 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.

34. 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 15q25.1 affect smoking quantity: a meta-analysis and comparison with lung cancer and COPD. *PLoS Genetics*, 6(8).

33. B.C. Haberstick, **M.A. Ehringer**, J. Lessem, C.J. Hopfer, J. Hewitt. Dizziness and the genetic influences on subjective experiences to initial cigarette use. *Addiction*. [Epub ahead of print].

32. **M.A. Ehringer**, M.B. McQueen, N.R. Hoff***, N. Saccone, J. Stitzel, J.C. Wang, and L.J. Bierut. (2010) Association of CHRN genes with “dizziness” to tobacco. *Neuropsychiatric Genetics*, 153B(2):600-609.

31. J.T. Sakai, M.C. Stallings, T.J. Crowley, H.L. Gelhorn, **M.A. Ehringer**. Test of association between GABRA2 (SNP rs279871) and adolescent conduct/alcohol use disorders utilizing a sample of clinic referred youth with serious substance and conduct problems, controls and available first degree relatives. *Drug and Alcohol Dependence*, 106(2-3):199-203.

2009

30. **M.A. Ehringer**, N.R. Hoff***, and M. Zunhammer*. (2009) Reduced alcohol consumption in mice with access to a running wheel, *Alcohol*, 43(6):443-452.

29. N.R. Hoff***, R.P. Corley, A. Smolen, M.B. McQueen, D. Huizinga, S. Menard, and **M.A. Ehringer**. (2009) SNPs in CHRNA6 and CHRN3 are associated with alcohol consumption in a nationally representative sample. *Genes, Brain, and Behavior*, 8(6):631-637.

28. C.A. Hartman, C.J. Hopfer, B.C. Haberstick, S.H. Rhee, T.J. Crowley, R.P. Corley, J.K. Hewitt, and **M.A. Ehringer**. (2009) The Association between Cannabinoid Receptor 1 Gene (CNR1) and Cannabis Symptoms in Adolescents and Young Adults. *Drug and Alcohol Dependence*, 104(1-2):11-16.

27. N.R. Hoff***, R.P. Corley, M.B. McQueen, I.R. Schlaepfer**, D. Huizinga, and **M.A. Ehringer**. (2009) Genetic association of the CHRNA6 and CHRN3 gene with tobacco dependence in a nationally representative sample. *Neuropsychopharmacology*, 34:698-706.

2008

26. R.P. Corley, J.S. Zeiger, T. Crowley, **M.A. Ehringer**, J.K. Hewitt, C.J. Hopfer, J. Lessem, M. McQueen, S.H. Rhee, A. Smolen, M.C. Stallings, S.E. Young, and K. Krauter. (2008) Association of candidate genes with antisocial drug dependence in adolescents. *Drug and Alcohol Dependence*, 96(1-2):90-98. PMC2574676

25. J.S. Zeiger, B.C. Haberstick, I. Schlaepfer**, A.C. Collins, R.P. Corley, T.J. Crowley, J.K. Hewitt, C.J. Hopfer, J. Lessem, M.B. McQueen, S.H. Rhee, and **M.A. Ehringer**. (2008) The neuronal nicotinic receptor (CHRNA6 and CHRN3) are associated with subjective responses to nicotine. *Human Molecular Genetics*, 17(5):724-734.

24. I. Schlaepfer**, N. R. Hoft***, A.C. Collins, R.P. Corley, J.K. Hewitt, C.J. Hopfer, J. Lessem, M.B. McQueen, S.H. Rhee, **M.A. Ehringer**. (2008) The CHRNA5/A3/B4 gene cluster variability as an important determinant of alcohol and tobacco initiation in young adults. *Biological Psychiatry*, 63(11): 1039-1046. PMC2526976

23. B.C. Haberstick, D. Timberlake, C.J. Hopfer, J.M. Lessem, **M.A. Ehringer**, J.K. Hewitt. (2008) Genetic and Environmental Contributions to Retrospectively Reported DSM-IV Childhood Attention Deficit Hyperactivity Disorder. *Psychological Medicine*, 38(7): 1057-1066.

22. A. Subbarao, S.H. Rhee, S.E. Young, **M.A. Ehringer**, R.P. Corley. (2008) Common genetic and environmental influences on major depressive disorder and conduct disorder. *Journal of Abnormal Child Psychology*, 36(3): 433-444. PMC2435091

2007

21. B.C. Haberstick, D. Timberlake, **M.A. Ehringer**, J.M. Lessem, C.J. Hopfer, A. Smolen, and J.K. Hewitt. (2007) Genes, time to first cigarette and nicotine dependence in a general population sample of young adults. *Addiction*, 102(4):655-665.

20. I. Schlaepfer**, H.V. Clegg, R.P. Corley, T. Crowley, J.K. Hewitt, C.J. Hopfer, K. Krauter, J. Lessem, S.H. Rhee, M.C. Stallings, J.M. Wehner, S.E. Young, **M.A. Ehringer**. (2007) The human protein kinase C-gamma gene (PRKCG) as a susceptibility locus for behavioral disinhibition. *Addiction Biology*, 12:200-209.

19. J.T. Sakai, J.M. Lessem, B.C. Haberstick, C.J. Hopfer, A. Smolen, **M.A. Ehringer**, D. Timberlake, and J.K. Hewitt. (2007) Case-Control and Within-Family Tests for Association Between 5HTTLPR and Conduct Problems in a Longitudinal Adolescent Sample. *Psychiatric Genetics*, 17(4): 207-214.

18. **M.A. Ehringer**, H.V. Clegg, A.C. Collins, R.P. Corley, T.J. Crowley, J.K. Hewitt, C.J. Hopfer, K. Krauter, J. Lessem, S.H. Rhee, I. Schlaepfer, A. Smolen, M.C. Stallings, S.E. Young, J.S. Zeiger. (2007) Association of the neuronal nicotinic receptor $\beta 2$ subunit gene (CHRNA2) with subjective responses to alcohol and nicotine. *Neuropsychiatric Genetics*, 144B(5):596-604.

2006

17. C.J. Hopfer, S.E. Young, S. Purcell, T.J. Crowley, M.C. Stallings, R.P. Corley, S.H. Rhee, A. Smolen, K. Krauter, J.K. Hewitt, **M.A. Ehringer**. (2006) Cannabis receptor haplotype protective against developing cannabis dependence symptoms in adolescents. *Neuropsychiatric Genetics*, 141(8):895-901.

16. J.M. Lessem, C.J. Hopfer, B. Haberstick, D. Timberlake, **M.A. Ehringer**, A. Smolen, and J.K. Hewitt. (2006) Relation between adolescent marijuana use and young adult illicit drug use. *Behavior Genetics*, 36(4): 498-506.

15. D.S. Timberlake, S.H. Rhee, B.C. Haberstick, C. Hopfer, **M. Ehringer**, J. Lessem, A. Smolen, and J.K. Hewitt. (2006) The moderating effects of religiosity on the genetic and environmental determinants of smoking initiation. *Nicotine and Tobacco Research*, 8(1): 123-133.

14. **M.A. Ehringer**, S.H. Rhee, S. Young, R. Corley, and J.K. Hewitt. (2006) Genetic and environmental contributions to common psychopathologies of childhood and adolescence: a study of twins and their siblings. *Journal of Abnormal Child Psychology*, 8: 1-17.

13. D.S. Timberlake, B.C. Haberstick, J.M. Lessem, C. Hopfer, A. Smolen, **M. Ehringer**, and J.K. Hewitt. (2006) An Association between the DAT1 9-Repeat Allele and Smoking Behavior in Young Adults from the National Longitudinal Study of Adolescent Health. *Health Psychology*, 25(2): 190-197.

2005

12. B.C. Haberstick, J.M. Lessem, C.J. Hopfer, A. Smolen, **M.A. Ehringer**, D. Timberlake, and J.K. Hewitt. (2005) MAOA Genotype and Antisocial Behaviors in the Presence of Childhood and Adolescent Maltreatment. *Neuropsychiatric Genetics*, 135(1): 59-64.

11. C.J. Hopfer, D. Timberlake, B. Haberstick, J.M. Lessem, **M.A. Ehringer**, A. Smolen, and J.K. Hewitt. (2005) Genetic Influences on Quantity of Alcohol Consumed by Adolescents and Young Adults. *Drug and Alcohol Dependence*, 78:187-193.

2003

10. M. Saito, **M.A. Ehringer**, R. Toth, M. Oros, I. Szakall, J.M. Sikela, C. Vadasz. (2003) Variants of κ opioid receptor gene and mRNA in alcohol-preferring and -avoiding mice. *Alcohol* 29: 39-49.

2002

9. **M.A. Ehringer**, J. Thompson, O. Conroy, F. Yang, R. Hink, M. Beeson, L. Gordon, B. Bennett, T.E. Johnson, J.M. Sikela. (2002) Fine-Mapping of Polymorphic Alcohol-Related QTL Candidate Genes using Interval-Specific Congenic Recombinants. *Alcoholism: Clinical and Experimental Research* 26(11): 1603-1608.

8. **M.A. Ehringer**, J. Thompson, O. Conroy, D. Goldman, T.L. Smith, M.A. Schuckit, and J.M. Sikela (2002) Human alcoholism studies of genes identified through mouse QTL analysis. *Addiction Biology* 7(4): 365-371.

7. S.L. Kirstein, K.L. Davidson, **M.A. Ehringer**, and B. Tabakoff. (2002) Quantitative trait loci affecting initial sensitivity and acute functional tolerance to ethanol-induced ataxia and brain cAMP signaling in BXD RI mice. *Journal of Pharmacology and Experimental Therapeutics* 302(3): 1238-1245.

2001

6. **M.A. Ehringer**, J. Thompson, O. Conroy, Y. Xu, F. Yang, J. Canniff, M. Beeson, L. Gordon, B. Bennett, T.E. Johnson, and J.M. Sikela. (2001) High-Throughput Sequence Identification of Gene Coding Variants within Alcohol-Related QTLs. *Mammalian Genome* 12:657-663.

5. Y., Xu, **M. Ehringer**, F. Yang, and J.M. Sikela. (2001) Comparison of Global Brain Gene Expression Profiles between ILS and ISS Mice by High Density Gene Array Hybridization. *Alcoholism: Clinical and Experimental Research* 25: 810-818.

4. C.D. Takacs, **M. Ehringer**, R. Favre, M. Cermola, G. Eggertsson, A. Palsdottir, and A. Reysenbach. (2001) Phylogenetic Characterization of the Blue Filamentous Bacterial Community from an Icelandic Geothermal Spring. *FEMS Microbial Ecology* 35: 123-128.

Prior to 2001

3. D.N. Frank, C. Adamidi, **M.A. Ehringer**, C. Pitulle, and N.R. Pace. (2000) Phylogenetic-comparative analysis of the eukaryal ribonuclease P RNA. *RNA* 12: 1895-1904.

2. A-L. Reysenbach, **M. Ehringer**, and K. Hershberger. (2000) Microbial diversity at 83°C in Calcite Springs, Yellowstone National Park: another environment where the Aquificales and “Korarchaeota” coexist. *Extremophiles* 4: 61-67.

1. J. Rajan, K. Valli, R.E. Perkins, S. Sariaslani, S.M. Barns, A-L Reysenbach, S. Rehm, **M. Ehringer**, and N. Pace. (1996) Mineralization of 2,4,6-trinitrophenol (picric acid): characterization and phylogenetic identification of microbial strains. *Journal of Industrial Microbiology* 16: 319-324.

REVIEW ARTICLES PUBLISHED OR IN PRESS

A.C. Collins, M. McQueen, and **M. Ehringer**. (2008) Editorial: Candidate gene and genome-wide association studies of lung cancer. *Human Genomics*, 3(1):3-6.

I.R. Schlaepfer**, N.R. Hoft***, and **M.A. Ehringer**. (2008) The genetic components of alcohol and nicotine co-addiction: From genes to behavior. *Current Drug Abuse Reviews*, 1:124-134.

M.A. Ehringer and J.M. Sikela. (2002) Genomic Approaches to the Genetics of Alcoholism. *Alcohol Research and Health*, 26(3): 181-192.

PEER REVIEWED ABSTRACTS FROM PARTICIPATION IN CONFERENCE SYMPOSIA

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 CHRN2 in alcohol and nicotine behaviors. Proceedings, 13th Annual Meeting of the International Behavioural and Neural Genetics Society, Rome, Italy, Symposium 2 talk.

H.M. Kamens, M.B. McQueen, R.P. Corley, M.C. Stallings, J.K. Hewitt, and **M.A. Ehringer**. (2011) Association of the CHRN2 gene and DSM-IV nicotine dependence symptoms. Society for Research on Nicotine and Tobacco, *Abstract Book NIPA-4*, p.43.

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 CHRN4. Society for Research on Nicotine and Tobacco, *Abstract book SYM5B*, p.9.

M.A. Ehringer and N.R. Hoft. (2010) The role of CHRNA6 and CHRN3 genes in tobacco and alcohol behaviors – Human molecular genetics. Society for Research on Nicotine and Tobacco, *Abstract book SYM1E*, p. 2.

M.A. Ehringer, E.M. Funk, N.R. Hoft, J.A. Stitzel, and S.H. Stephens. (2010) The role of CHRNA5/A3/B4 in early disinhibitory behaviors – Human molecular genetics. Society for Research on Nicotine and Tobacco, *Abstract book SYM5B*, p. 6.

M.A. Ehringer, T. Darlington, and N.R. Hoft. (2010) Gene expression studies of alcohol, wheel running behaviors, and possible interactions. *Alcohol Clin Exp Res* 34(6):246A.

M.A. Ehringer, N.R. Hoft, and J. Godfrey. (2010) The effects of voluntary wheel-running on alcohol consumption: Common responses across different genetic strains of mice. *Genes, Brain, and Behavior* 9(4):421.

M.A. Ehringer, N.R. Hoft, and L. Vidable. (2009) The role of *Chrna6* and *Chrn3* genes in alcohol behaviors – human, molecular, and mouse genetics. Proceedings, 11th Annual Meeting of the International Behavioural and Neural Genetics Society, Dresden, Germany

G. Lubke and **M. Ehringer**. (2009) The *CHRNA5/A3/B4* gene cluster and tobacco, alcohol and cannabis initiation: Replication and new findings using mixture analysis. Proceedings, 39th Annual Meeting of the Behavior Genetics Association, Minneapolis, MN

M.A. Ehringer, I.R. Schlaepfer, and N.R. Hoft. (2008) Neuronal nicotinic receptor genes and associations with smoking and alcohol behaviors. Proceedings, 38th Annual Meeting of the Behavior Genetics Association, Louisville, KY

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

B.C. Haberstick, M. LaBorde, M.B. McQueen, and **M.A. Ehringer**. (2007) Is the *CHRNA3* gene associated with nicotine behaviors? Proceedings, 37th Annual Meeting of the Behavior Genetics Association, Amsterdam, The Netherlands

PUBLISHED ABSTRACTS (not peer reviewed):

H.M. Kamens, R.J. Cox, **M.A. Ehringer**. (2011) The *Chrna6* and *Chrn3* genes do not modulate ethanol consumption. *Alcohol Clin Exp Res* 35(6): 73A.

W.E. Melroy, S.H. Stephens, M.B. McQueen, R.C. Corley, M.C. Stallings, T.J. Crowley, C.J. Hoyer, 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. Hoffer, 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**. In press. "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.

INVITED PRESENTATIONS:

INTERNATIONAL SYMPOSIA

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)

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 *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” 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 *CHRN3* 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., 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. (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

RESEARCH TRAINING WORKSHOPS:

- 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 workshop, Denver, CO
- 1999 Genetics and Ethics Conference, Aspen, CO

TEACHING CONTRIBUTIONS:

UNIVERSITY COURSES:

University of Colorado, Boulder, CO

- 2009 **IPHY 2800** Introduction to Statistics (Spring)
Professor; 141 undergraduate students
- IPHY 4860** Independent Study (Summer)
Sponsor, Laura Rosado Maldonado, SMART program intern

- IPHY 4860** Independent Study (Fall)
Sponsor, Maricarmen Stout
- IPHY 6010** Applications of Bioinformatics and Genomics (Fall)
Professor; 8 graduate students
- 2008
- IPHY 4870** Honors Thesis (Spring)
Sponsor, Jessica Godfrey
- IPHY 5840** Independent Study (Spring)
Sponsor, Matthias Zunhammer, visiting study from University of Regensburg, Germany
- IPHY 6830** Professional Skills for the Research Scientist (Spring)
Guest lecturer at 2 classes (~15 graduate students)
- IPHY 4860** Independent Study (Summer)
Sponsor, Lucia Vidable, SMART program intern
- IPHY 5800** Advanced Statistics and Research (Fall)
Guest lecturer at 1 class (~15 graduate students)
- 2007
- IPHY 4860** Independent Study (Summer)
Sponsor, Vanessa Selwyn, SMART program intern
- IPHY 4860** Independent Study (Fall)
Sponsor, Jessica Godfrey
- IPHY 6010** Applications of Bioinformatics and Genomics (Fall)
Professor; 10 graduate students
- IPHY 5840** Independent Study (Fall)
Sponsor, Matthias Zunhammer, visiting study from University of Regensburg, Germany
- 2006
- IPHY 4860** Independent Study (Summer)
Sponsor, Garland Deshazer, SMART program intern
- IPHY 2800** Introduction to Statistics (Fall)
Professor; 134 undergraduate students
- 2005
- IPHY 2600** Introduction to Research Methods (Fall)
Professor; 35 undergraduate students
- IPHY 6010** Applications of Bioinformatics and Genomics (Spring)
Professor; 4 graduate students
- 2004
- IPHY 2600** Introduction to Research Methods (Fall)
Professor; 18 undergraduate students

IPHY 6010 Applications of Bioinformatics and Genomics (Spring)
Professor; 11 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”

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

ADVISORY AND SUPERVISORY RESPONSIBILITIES

Supervised Trainees (Primary Mentor)

- * Indicates co-author on published abstract
Indicates co-author on published manuscript.

University of Colorado, Boulder, CO

Current postdoctoral trainees:

- 2010-present Xavier Gallegos, Ph.D.
2010-present Amber Flora, Ph.D.
2009-present Helen Kamens, Ph.D.

Former postdoctoral trainees:

- 2008-2011 *#Sarah Holly Stephens, Ph.D.
 Current position: Postdoctoral fellow
 University of Maryland Health Sciences Center
 Department of Endocrinology, Diabetes, and Nutrition
 Baltimore, MD
- 2006-2009 *#Nicole Hoft, Ph.D.

Foreign scholar trainee:

- 2007-2008 # Matthias Zunhammer, University of Regensburg, Germany independent study

Current graduate trainees:

- 2010-present *Whitney Melroy, Integrative Physiology
 2008-present * Todd Darlington, Integrative Physiology

Former graduate trainees:

- 2005-2008 *# Isabel Schlaepfer, Ph.D. Integrative Physiology
 Current position: Instructor/ Fellow
 Division of Endocrinology, Metabolism and Diabetes
 University of Colorado Denver- School of Medicine
 Aurora, CO

Current and Past Undergraduate Trainees:

- 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

- 2011 Lymarís Quinones Davila, undergraduate at University of Puerto Rico
(SMART)
- 2011-present Krista Johnson, IPHY student **(INDST)**
 2011-present Ellen MacDonald, IPHY student **(INDST)**
 2011-present Riley McCarthy, IPHY student **(INDST)**
 2010-present Ryan Cox, IPHY student **(INDST)**
 2010-present Brian Wanner, IPHY student **(INDST)**
 2009-2011 Maricarmen Stout, 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>
"Association between Nicotinic Receptor Genes (CHRNA3, A5, A6, B2, B3, B4) and Subjective Responses to Tobacco" University of Colorado, Faculty Mentor for Stephen Faulkner, Howard Hughes Medical Institute Undergraduate Research Program, Sponsor	2007-2008	\$2304
"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

2011-present	Daniel Howrigan, Psychology
2011-present	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

2008 Sheila Maier, Integrative Physiology

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

Bioinformatics
Biological Psychiatry
BMC Genomics
Cancer Research
Genes, Brain, and Behavior
Human Molecular Genetics
Molecular Medicine
Molecular Psychiatry
Neuropsychiatric Genetics
Neuropsychobiology
Nicotine and Tobacco Research
Pharmacology, Biochemistry, and Behavior
Physiological Genomics
PLoS One
Psychological Assessments
Physiology and Behavior
Psychopharmacology

Grant reviews:

2009-2011 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*)

International consortium:

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

OUTREACH

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”
- 2009-2010 “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:

- 2008-present International Behavioural and Neural Genetics Society (IBANGS)
2010-present Treasurer, IBANGS
- 2009-present Society for Research on Nicotine and Tobacco (SRNT)
2010-present Genetics Advisory Committee (SRNT)
- 2009-present International Society of Psychiatric Genetics (ISPG)
- 2004-present American Society of Human Genetics (ASHG)
- 2004-present Behavioral Genetics Association (BGA)
- 2004-present Research Society on Alcoholism (RSA)