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## CURRICULUM VITAE

*JERRY ALAN STITZEL, Ph.D.*

### PERSONAL INFORMATION

Address: Institute for Behavioral Genetics  
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### EDUCATION

1992-1994 Postdoctoral Research Fellow in Pharmacogenetics  
University of Colorado, Boulder, CO

1986-1992 Ph.D., Molecular Biology  
The Johns Hopkins University, Baltimore, MD.

1979-1984 B.A. Double Major. Molecular, Cellular and Developmental Biology and  
Chemistry (Biochemistry option).  
University of Colorado, Boulder, CO

### PROFESSIONAL POSITIONS

2020-present Professor, Department of Integrative Physiology, University of Colorado,  
Boulder, CO.

2019-present Associate Editor, Behavior Genetics

2015-2019 Member, Linda Crnic Institute for Down Syndrome Research

2009-present Associate Professor, Department of Integrative Physiology, University of  
Colorado, Boulder, CO.

2006-present Member, University of Colorado Cancer Center

2004-2009 Assistant Professor, Department of Integrative Physiology,  
University of Colorado, Boulder, CO.

2004-present Faculty Fellow, Institute for Behavioral Genetics, University of  
Colorado, Boulder, CO.

2004-present Faculty, Center for Neuroscience

1999-2009 Member, University of Michigan Substance Abuse Research Center

1999-2003 Member, University of Michigan Cancer Center

1999-2003 Assistant Research Scientist, Department of Pharmacology (Primary appointment) and Department of Psychiatry, University of Michigan Medical School, Ann Arbor, MI

1994-1999 Research Associate, Institute for Behavioral Genetics  
University of Colorado, Boulder, CO

1984-1986 Professional Research Assistant, Institute for Behavioral Genetics  
University of Colorado, Boulder, CO

### **PROFESSIONAL CONSULTATION**

2016-2021 Consultant, NIDA U01 grant entitled "Gene Variants for Nicotine Withdrawal Deficits in Learning", Thomas Gould, P.I., Penn State University.

2007 Invited Speaker & Participant, NIDA workshop: "Addiction, Microarrays, and Gene Discovery"

2003 Ad hoc consultant, NIDA R01Grant entitled "Genetics of vulnerability to nicotine addiction", Pamela Madden, P.I., Washington University, St. Louis. MO

2002-2003 Consultant on Program Project Grant Proposal entitled "Biometric and Measured Genetic Research on Smoking", O.F. Pomerleau, P.I. University of Michigan

2002 Consultant (participant): NIAAA Workshop, Alcohol and Tobacco: Mechanisms and Treatment (Project # AAW060-1554 (9H))

2000 Ad hoc consultant, NIDA R01Grant entitled "Genetics of Vulnerability to Nicotine Addiction", Pamela Madden, P.I., Washington University, St. Louis, MO

### **HONORS AND AWARDS**

2013 CU-LEAD Alliance Faculty Appreciation Award

2009 CU-LEAD Alliance Certificate of Merit

2008 TRIO Certificate of Recognition

2007 Abstract submitted to Society for Neuroscience annual meeting titled

“Circadian variation in nicotine sensitivity in melatonin-proficient and deficient inbred mouse strains” selected for inclusion in Neuroscience 2007 Press Book

2001 Research Scholar Award. The American Cancer Society.

1992-1994 Post-Doctoral Fellowship. University of Colorado Alcohol Research Center, Boulder, CO

<b>GRANTS (P.I. OR CO-I.): ACTIVE, PENDING, AND COMPLETED</b>		
<b>Active</b>		
<b>Title and Source</b>	<b>Period</b>	<b>Total Award</b>
Deep sequencing, phenotyping, and imputation in large-scale biobanks: a novel and cost-effective framework to identify rare mutations associated with addiction. NIH R01DA044283. Scott Vrieze, PI. <b>Role: Co-I of subcontract (Matt Keller, PI). Responsible for functional characterization of rare variants.</b>	5/19-2/24	\$3,207,683  Sub: \$1,615,732
Role of glial expression in nicotine behaviors for genes identified through human GWAS 1 R21 DA055781 (R21/R33 mechanism) <b>MPI (Marissa Ehringer, Charles Hoeffler, Jerry Stitzel)</b>	R21: 9/22-8/24 R33 (if awarded): 9/24-8-27	\$1,512,463
<b>Pending</b>		
Integrative approaches to discover and dissect smoking and drinking associated genes. NIH 1 R01 DA059243 (Liu, Vrieze). <b>Role: PI of subcontract.</b>	7/23-6/28	\$2,492,225 (DC)
<b>Completed</b>		
Genetic modifiers of Chrna5 deletion in mice: role in nicotine behaviors modulated by the medial habenula-IPN pathway. NIH U01DA043802 <b>Lead Principal Investigator (MPI with Richard Radcliffe)</b>	4/18-12/23	\$3,084,346
Genetic modifiers of Chrna5 deletion in mice: role in nicotine behaviors modulated by the medial habenula-IPN pathway. NIH U01DA043802: Supplement <b>Lead Principal Investigator (MPI with Richard Radcliffe)</b>	1/19-12/22	\$262,785
Nicotine consumption QTL: Fine mapping, selective breeding and sequencing NIH 1UH2/UH3 DA040142 <b>Lead Principal Investigator (MPI with Richard Radcliffe)</b>	2015-2020	\$1,155,327
Role of Chrna5 genotype on outcomes of developmental nicotine exposure. 1R21 DA040228, NIH <b>Principal Investigator</b>	2015-2018	\$416,330
Molecular pathology of cholinergic neurodegeneration in Ts65Dn mice, Linda Crnic Institute <b>Principal Investigator</b>	2015-2018	\$99,804
Analysis of alpha4 nicotinic receptors using viral re-	2015-2017	\$419,375

expression in alpha4 KO mice. 1 R21 DA036673, NIH <b>Principal Investigator</b>		
Translational Studies of Nicotinic Receptor Genes: Alcohol and Nicotine R01 AA017889, NIH Marissa Ehringer, PI <b>Co-Investigator</b>	2009-2016	\$2,813,974
Screening for alpha5 nicotinic receptor positive allosteric modulators, Pfizer, Inc. <b>Principal Investigator</b>	2014-2015	\$53,854
Studies with Nicotinic Null Mutant Mice P30 DA015663-10S1, NIH <b>Principal Investigator (as of 2014)</b>	2008-2015	
Collaborative Genetic Study of Nicotine Dependence P01 CA089392, NIH Program Project, Laura Bierut, Principal Investigator. <b>Principal Investigator of Project 3:</b> Role of Chrna5 in modulating sensitivity to nicotine in mice	2008-2014	\$1,549,703 (Project 3)
Basic to Clinical Molecular Neurobiology of Nicotinic Receptors in Schizophrenia, NIH 2 P50 MH068582-06 Principal Investigator: Robert Freedman <b>Principal Investigator, Project 4:</b> Mouse Molecular and Neurobiological Models	2009-2014	\$680,310 (Project 4)
Function of the CHRNA5 D398N SNP: implications for addiction and lung cancer risk R21, NIH <b>Principal Investigator</b>	2009-2011	\$921,721
Nicotinic receptor genes & substance abuse: Functional studies of associated SNPs R21, NIH <b>Principal Investigator (Multiple PI with Marissa Ehringer)</b>	2009-2011	\$876,704
Circadian Variation in Nicotine Sensitivity in Mice R21 DA022462, NIH <b>Principal Investigator</b>	2007-2010	\$416,600
Interaction between Age and Chrna4 Genotype on Nicotine Sensitivity in Mice F31 DA024515, NIH NRSA Pre-Doctoral Fellowship to Jennifer Wilking <b>Sponsor</b>	2007-2009	\$60,676
Molecular Neurobiology of Schizophrenia P50 MH068582, NIH Conte Center, Robert Freedman, Principal Investigator <b>Principal Investigator of Animal Core</b>	2004-2009	\$569,993 (Animal Core)
Identification of Functional nAChR Variants in Mice R01 DA014369, NIH <b>Principal Investigator</b>	2001-2007	\$879,600
Genetic Analysis of Nicotine Preference in Mice. RSG-01-139-01-CNE, American Cancer Society, <b>Principal</b>	2001-2006	\$858,068

<b>Investigator</b>		
Nicotinic Receptor Variability and Alcohol Sensitivity in Mice. Alcoholic Beverage Medical Research Foundation, <b>Principal Investigator</b>	2001-2003	\$78,666
Response to Nicotine: Molecular Studies of Murine nAChRs P01 DA10156, NIH Program Project, Allan Collins, Principal Investigator <b>Co-Investigator on Project 1: nAChR</b> Subtypes and Responses to Nicotine	1995-2001	\$2,970,804

## **PUBLICATIONS**

\* Indicates authors who were undergraduate research assistants in Dr. Stitzel's laboratory.

### ***Manuscripts in Preparation***

1. Mathews HL, Aki S, \*Brown M, and **Stitzel JA**. Impact of *Chrna4* and *Chrna5* deletion on sleep in mice.
2. Aki S, \*Brown M, **Stitzel JA** and Mathews HL. Impact of nicotine consumption and abstinence on sleep in female C57BL/6J mice.
3. Booher WC, Vanderlinden LA, O'Neill HC, Werner ZJ, Meyers E, Mathew HL, **Stitzel JA**, Radcliffe RA. 2023. RNA-Sequencing in Heterogeneous Stock Mice Selected for Nicotine Preference.
4. Lombardi AM, Wong H, Bower M, Milstead R, Borski C, Schmitt E, LaPlante L, Ehringer MA, **Stitzel JA**, and Hoeffler CA. AKT2 modulates astrocytic nicotine responses in vivo

### ***Manuscripts under Review***

1. Buck JM, Melnick M, and **Stitzel JA**. Developmental nicotine exposure elicits multigenerational alterations in the transcriptome of striatal D1R cells. *Neurotoxicology*.
2. Akinola L, Gonzales J, Buzzi B, Mathews HL, Papke RL, **Stitzel JA**, Damaj MI. Investigating the Role of Nicotinic Acetylcholine Receptors in Menthol's Effects in Mice. *Drug and Alcohol Dependence*.
3. Litif CG, Flom LT, Sandum KL, Hodgins SL, Vaccaro L, **Stitzel JA**, Blouin NA, Mannino MC, Gigley JP, Schoborg TA, Bobadilla AC. Sex-Dependent Genetic Expression Signatures within Cocaine- and Sucrose-Seeking Ensembles in Mice. *Nature Communications*.
4. Ehringer MA, Hoeffler CA, and **Stitzel JA**. Bioinformatics and Genomics Tools to Identify and Advance Characterization of Functional Variants in a Post-GWAS Era. *Molec. Psychiatry*

### **Manuscripts Published or In Press**

1. Evans LM, Arehart CH, Grotzinger AD, Mize TJ, Brasher MS, **Stitzel JA**, Ehringer MA, Hoeffler CA. 2023. Transcriptome-Wide Gene-Gene Interaction Association Study Elucidates Pathways and Functional Enrichment of Complex Traits. *PLOS Genetics*. May 22;19(5):e1010693. doi: 10.1371/journal.pgen.1010693. eCollection.
2. Mize TJ, Funkhouser SA, Buck JM, **Stitzel JA**, Ehringer MA, and Evans LM. 2023. Testing Association of Previously Implicated Gene-Sets and Gene-Networks in Nicotine Exposed Mouse Models with Human Smoking Phenotypes. *Nicotine and Tobacco Research*. *Nicotine Tob Res* 25: 1030-1038.
3. Saunders GRB, Wang X, Chen F, Jang, S-K, Wang C, Gao S, ... **Stitzel JA**, et al. 2022. Trans-Ancestry Genome-Wide Investigation of Tobacco and Alcohol Use in up to 3.4 Million Individuals. *Nature*. 612(7941):720-724. doi: 10.1038/s41586-022-05477-4.
4. Quijano Cardé NA, Shaw J, Carter C, Kim S, **Stitzel JA**, Venkatesh SK, Ramchandani VA and De Biasi M. 2022. Mutation of the  $\alpha 5$  nicotinic acetylcholine receptor subunit increases Ethanol and nicotine consumption in adolescence and impacts adult Drug consumption. *Neuropharmacology* 216:109170. doi: 10.1016/j.neuropharm.2022.109170.
5. Wong H, Buck JM, Borski C, Pafford JT, Keller BN, Milstead RA, Hanson JL, **Stitzel JA** and Hoeffler CA. 2022. RCAN1 knockout and overexpression recapitulate an ensemble of rest-activity and circadian disruptions characteristic of Down syndrome, Alzheimer's disease, and normative aging. *J. Neurodev. Disorders*. 14(1):33. doi: 10.1186/s11689-022-09444-y
6. Routhier J, Pons S, Lamine Freidja M, Dalstein V, Cutrona J, Jonquet A, Lalun N, Mérol J-C, **Stitzel J**, Lathrop M, Kervoaze G, Pichavant M, Gosset P, Tournier J-M, Birembaut P, Dormoy V, and Maskos U. 2021. An innate contribution of human nicotinic receptor polymorphisms to COPD-like lesions. *Nature Commun.*, 12(1):6384. doi: 10.1038/s41467-021-26637-6
7. Buck JM, O'Neill HC and Stitzel JA. 2021. The intergenerational transmission of developmental nicotine exposure-induced neurodevelopmental disorder-like phenotypes is modulated by the *Chrna5* D397N polymorphism in adolescent mice. *Behav. Genetics* 51:665-684. doi: 10.1007/s10519-021-10071-x
8. Meyers E, Werner Z, Wichman D, Mathews HL, Radcliffe RA, Nadeau JH and **Stitzel JA**. 2021. Genetic Modifiers of oral nicotine consumption in *Chrna5* null mutant mice. *Frontiers in Psychiatry*, 12:773400. doi: 10.3389/fpsy.2021.773400
9. Buck JM, Yu L, Knopik VS and **Stitzel JA**. 2021. DNA Methylome Perturbations: An Epigenetic Basis for the Emergingly Heritable Neurodevelopmental Abnormalities Associated with Maternal Smoking and Maternal Nicotine Exposure. *Biol. Reproduction* 105: 644-666. doi: 10.1093/biolre/iaob138

10. McGuire D, Jiang Y, Liu MZ, et al. 2021. Model-based assessment of replicability for genome-wide association meta-analysis. *Nat Commun* 12(1):1964. doi: 10.1038/s41467-021-21226-z
11. Evans LM, Johnson EC, Melroy-Grief WE, Hewitt JK, Hoeffler CA, Keller MC, Saba LM, **Stitzel JA**, Ehringer MA. 2020. The role of a priori-identified addiction and smoking gene sets in smoking behaviors. *Nicotine Tob Res.* 22(8):1310-1315. doi: 10.1093/ntr/ntaa006.
12. Buck JM, O'Neill HC, **Stitzel JA**. 2020. Developmental nicotine exposure engenders intergenerational downregulation and aberrant posttranslational modification of cardinal epigenetic factors in the frontal cortices, striata, and hippocampi of adolescent mice. *Epigenetics Chromatin.* 13(1):13. doi: 10.1186/s13072-020-00332-0.
13. Buck JM, O'Neill HC and **Stitzel JA**. 2019. Developmental nicotine exposure elicits multigenerational disequilibria in proBDNF proteolysis and glucocorticoid signaling in the frontal cortices, striata, and hippocampi of adolescent mice. *Biochemical Pharmacology* 168:438-451
14. Buck JM, Sanders KN, Knopik VS, Wageman CR, **Stitzel JA**, and O'Neill HC. 2019. Developmental nicotine exposure precipitates multigenerational maternal transmission of nicotine preference and ADHD-like behavioral, rhythmometric, neuropharmacological, and epigenetic anomalies in adolescent mice. *Neuropharmacology* 149:66-82
15. Liu M, Jiang Y, Wedow R, Li Y, ... **Stitzel JA**, ... Vrieze S. 2019. Genetic association of 565 variants with alcohol and tobacco use. *Nature Genetics.* 51:237-244
16. Mathews HL and **Stitzel JA**. 2019. A Mouse Model of Sleep Disturbances During Nicotine Administration and Withdrawal. *Psychopharmacol.* 236:1335-1347.
17. Zambrano CA, \*Escobar D, \*Ramos-Santiago T, Bollinger I and **Stitzel J**. 2019. Serine residues in the  $\alpha 4$  nicotinic acetylcholine receptor subunit regulate surface  $\alpha 4\beta 2^*$  receptor expression and cluster. *Biochem. Pharmacol.* 159:64-73
18. Coverstone ED, Bach RG, Chen LS, Bierut LJ, Li AY, Lenzini PA, Spertus JA, Sucharov CC, O'Neill H, **Stitzel JA**, Schilling JD, Cresci S. 2018. A novel genetic marker of decreased inflammation and improved survival after acute myocardial infarction. *Basic Research in Cardiology.* 113(5):38. doi: 10.1007/s00395-018-0697-7.
19. O'Neill HC, Wageman C, Sherman S, Grady SR, Marks MJ and **Stitzel JA**. 2018. The interaction of the Chrna5 D398N variant with developmental nicotine exposure. *Genes, Brain and Behavior.* 17(7):e12474
20. Olsson E, Bloom J, Bertelsen S, Budde JP, Breslau N, Brooks A, Culverhouse R, Chan G, Chen LS, Chorlian D, Dick DM, Edenberg HJ, Hartz S, Hatsukami D, Hesselbrock VM, Johnson EO, Kramer JR, Kuperman S, Meyers JL, Nurnberger JL, Porjesz B, Saccone NL, Schuckit MA, **Stitzel J**, Tischfield JA, Rice JP, Goate A, Bierut LJ. 2018. CYP2A6 metabolism in the development of nicotine dependence in young adults. *Addiction Biology.* 23:437-447

21. Bai X, **Stitzel JA**, Bai A, Zambrano CA, Phillips M, Marrack P and Chan ED. 2017. Nicotine impairs macrophage control of *Mycobacterium tuberculosis*. *Am J Respir Cell Mol Biol.* 57:324-333.
22. Koukoulis F, Rooy M, Tziotis D, Sailor K, O'Neill HC, Levenga J, Nilges M, Changeux JP, Hoeffler CA, **Stitzel JA**, Gutkin B, DiGregorio D & Maskos U. 2017. Inhibitory control of prefrontal cortex activity by nicotinic receptors and their human variants linked to schizophrenia and smoking. *Nature Medicine.* 23:347-354
23. Melroy-Greif WE, **Stitzel JA**, Ehringer MA. 2016. Nicotinic acetylcholine receptors: upregulation, age-related effects, and associations with drug use. *Genes Brain Behav.* 15:89-107.
24. Olfson E, Saccone NL, Johnson EO, Chen LS, Culverhouse R, Doheny K, Foltz SM, Fox L, Gogarten SM, Hartz S, Hetrick K, Laurie CC, Marosy B, Amin N, Arnett D, Barr RG, Bartz TM, Bertelsen S, Borecki IB, Brown MR, Chasman DI, van Duijn CM, Feitosa MF, Fox ER, Franceschini N, Franco OH, Grove ML, Guo X, Hofman A, Kardia SLR, Morrison AC, Musani SK, Psaty BM, Rao DC, Reiner AP, Rice K, Ridker PM, Rose LM, Schick UM, Schwander K, Uitterlinden AG, Vojinovic D, Wang JC, Ware EB, Wilson G, Yao J, Zhao W, Breslau N, Hatsukami D, **Stitzel JA**, Rice J, Goate A, Bierut LJ. 2016. Rare, low frequency, and common coding variants in CHRNA5 and their contribution to nicotine dependence in European and African Americans. *Molec. Psychiatry.* 21:601-7.
25. Kamens HM, Miyamoto J, Powers MS, Ro K, Soto M, Cox R, **Stitzel JA**, & Ehringer MA. 2015. The  $\beta 3$  subunit of the nicotinic acetylcholine receptor: modulation of gene expression and nicotine consumption. *Neuropharmacology* 99:639-49.
26. Hancock DB, Wang JC, Gaddis NC, Saccone NL, **Stitzel JA**, Goate A, Bierut LJ, and Johnson EO. 2015. A multi-ancestry study identifies novel genetic associations with CHRNA5 methylation in human brain and risk of nicotine dependence. *Human Molec. Genetics* 24:5940-54.
27. Sciacaluga M, Moriconi C, Martinello K, Catalano M, Bermudez I, **Stitzel JA**, Maskos U, Fucile S. 2015. Crucial role of nicotinic  $\alpha 5$  subunit variants for  $Ca^{2+}$  fluxes in ventral midbrain neurons. *FASEB J.* 29:3389-98
28. Stevens KE, Zheng L, Floyd KL and **Stitzel JA**. 2015. Maximizing the effect of an  $\alpha 7$  nicotinic receptor PAM in a mouse model of schizophrenia-like sensory inhibition deficits. *Brain Res.* 1611:8-17.
29. Horton WJ, \*Gissel HJ, \*Saboy JE, Wright KP and **Stitzel JA**. 2015. Melatonin Administration Alters Nicotine Preference Consumption via Signaling Through High-Affinity Melatonin Receptors. *Behav. Neurosci.* 232:2519-30
30. Wilking JA, **Stitzel JA**. 2015. Natural genetic variability of the neuronal nicotinic acetylcholine receptor subunit genes in mice: Consequences and confounds. *Neuropharmacology.* 96(Pt B):205-12.
31. McClure-Begley TD, Grady SR, Marks MJ, Collins AC, **Stitzel JA**. 2014. Presynaptic GABAB Autoreceptor Regulation of Nicotinic Acetylcholine Receptor Mediated [3H]-

GABA Release from Mouse Striatal Synaptosomes. *Biochem. Pharmacol.* 91:87-96.

32. Stevens KE, Choo CS, **Stitzel JA**, Marks MJ, Adams CE 2014. Long-term improvements in sensory inhibition with gestational choline supplementation linked to  $\alpha 7$  nicotinic receptors through studies in *Chrna7* null mutation mice. *Brain Res.* 1552:26-33.
33. Flora AV, Zambrano CA, Gallego X, Johnson KA, Cowen KA, **Stitzel JA**, Ehringer MA. 2013. Functional characterization of SNPs in *CHRNA3/B4* intergenic region associated with drug behaviors. *Brain Res.* 1529:1-15
34. Gallego X, Cox RJ, Laughlin JR, **Stitzel JA**, Ehringer, MA. 2013. Alternative *CHRNA4* 3'-UTRs Mediate the Allelic Effects of SNP rs1948 on Gene Expression. *PLoS One.* May 14; 8(5):e63699.
35. Hartz SM et al. 2012. Increased genetic vulnerability to smoking at *CHRNA5* in early-onset smokers. *Arch. Gen. Psychiatry* 69:854-60
36. Tammimäki A, \*Herder P, Li P, Esch C, Laughlin JR, Akk G, **Stitzel JA**. 2012. Impact of human D398N single nucleotide polymorphism on intracellular calcium response mediated by  $\alpha 3\beta 4\alpha 5$  nicotinic acetylcholine receptors. *Neuropharmacology* 63:1002-11
37. Mexal S, Horton, WJ, Crouch EL, \*Maier SIB, \*Wilkinson AL, \*Marsolek M, and **Stitzel JA**. 2012. Diurnal variation in nicotine sensitivity in mice: role of genetic background and melatonin. *Neuropharmacology* 63:966-73
38. Wilking JA, \*Nguyen V, Hesterberg K, \*Cyboron A, \*Hua A, **Stitzel JA**. 2012. Age and strain effects on oral nicotine consumption and baseline anxiety. *Behav. Brain Res.* 233:280-7
39. Adams CA, Yonchek J, Schulz K, Graw S, **Stitzel J**, Teschke P, and Stevens K. 2012. Reduced *Chrna7* expression in mice is associated with decreases in hippocampal markers of inhibitory function: implications for neuropsychiatric diseases. *Neuroscience* 207:274-82.
40. Haller G, Druley T, Vallania FL, Mitra RD, Li P, Akk G, Steinbach JH, Breslau N, Johnson E, Hatsukami D, **Stitzel J**, Bierut LJ, Goate AM. 2012. Rare missense variants in *CHRNA4* are associated with reduced risk of nicotine dependence. *Hum Mol Genet.* 21:647-55
41. Tammimäki A, Horton WJ, **Stitzel JA**. 2011. Recent advances in gene manipulation and nicotinic acetylcholine receptor biology. *Biochem Pharmacol.* 82:808-19
42. Culverhouse RC, Saccone NL, **Stitzel JA**, Wang JC, Steinbach JH, Goate AM, An TH, Gruzca RA, Stevens VL, Bierut LJ. 2011. Uncovering hidden variance: Pair-wise SNP analysis accounts for additional variance in nicotine dependence. *Human Genetics* 129:177-88.
43. Hoft NR, **Stitzel JA**, Hutchison KE, and Ehringer MA. 2011. *CHRNA2* Promoter Region: Association with subjective effects to nicotine and gene expression differences. *Genes Brain and Behavior* 10:176-85.

44. Papke RL, Wecker L and **Stitzel JA**. 2010. Activation and inhibition of mouse muscle and neuronal nicotinic acetylcholine receptors expressed in *Xenopus* oocytes. *J Pharmacol Exp Ther.* 333:501-518
45. Wilking JA, Hesterberg K, Crouch EL, Homanics G, and **Stitzel JA**. 2010. *Chrna4* T529A knockin mice exhibit altered sensitivity to nicotine. *Pharmacogenetics and Genomics* 20:121–130
46. Ehringer MA, McQueen MB, Hoft NR, Saccone N, **Stitzel JA**, Wang JC, Bierut LJ. 2010. Association of *CHRN* genes with “dizziness” to tobacco. *Neuropsychiatric Genetics* 153B:600-609
47. Wang JC, Cruchaga C, Saccone NL, Bertelsen S, Liu P, Budde JP, Duan W, Fox L, Gruzca RA, Kern J, Mayo K, Reyes O, Rice J, Saccone SF, Spiegel N, Steinbach JH, **Stitzel JA**, Anderson MW, You M, Stevens VL, Bierut LJ, Goate AM; COGEND collaborators and GELCC collaborators. 2009. Risk for nicotine dependence and lung cancer is conferred by mRNA expression levels and amino acid change in *CHRNA5*. *Hum Mol Genet.* 18:3125-35
48. Brooks N, Mexal S, and **Stitzel JA**. 2009. *Chrna7* genotype is linked with alpha7 nicotinic receptor expression but not alpha7 RNA levels. *Brain Research* 1263:1-9.
49. McClure-Begley TD, King NM, Collins AC, **Stitzel JA**, Wehner JM, Butt CM. 2009. Acetylcholine-Stimulated [<sup>3</sup>H]GABA Release from Mouse Brain Synaptosomes is Modulated by  $\alpha 4\beta 2$  and  $\alpha 4\alpha 5\beta 2$  Nicotinic Receptor Subtypes. *J. Neurochem.* 75:918-26
50. Saccone NL, Saccone SF, Hinrichs AL, **Stitzel JA**, Duan W, Madden PAF, Pergadia M, Wang JC, Goate AM, Rice JP, and Bierut LJ. 2009. Nicotine dependence and the complete family of nicotinic receptor subunit genes: independent and interacting genetic variants are associated with risk. *Am J Med Genet Part B: Neuropsychiatric Genetics* 150B:453-66.
51. Gruzca RA, Wang JC, **Stitzel JA**, Hinrichs AL, Saccone SF, Saccone NL, Bucholz KK, Cloninger CR, Neuman RJ, Budde JP, Fox L, Bertelsen S, Kramer J, Hesselbrock V, Tischfield J, Nurnberger Jr JI, Almasy L, Porjesz B, Kuperman S, Schuckit MA, Edenberg HJ., Rice J.P., Goate A.M., Bierut L.J. 2008. A Risk Allele for Nicotine Dependence in *CHRNA5* Is a Protective Allele for Cocaine Dependence. *Biol. Psychiatry* 64:922-9. PMID: 18519132
52. Bierut LJ, **Stitzel JA**, Wang JC, Hinrichs AL, Gruzca RA, Xuei X, Saccone NL, Saccone SF, Bertelsen S, Fox L, Horton WH, Breslau N, Budde J, Cloninger CR, Dick DM, Foroud T, Hatsukami D, Hesselbrock V, Johnson EO, Kramer J, Kuperman S, Madden PAF, Mayo K, Nurnberger J, Pomerleau O, Porjesz B, Reyes O, Schuckit M, Swan G, Tischfield JA, Edenberg HJ, Rice JP, Goate AM. 2008. Variants in nicotinic receptors and risk for nicotine dependence. *Am J Psychiatry.* 165:1163-71
53. Hutchison KE, Haughey H, Niculescu M, Schacht J, Kaiser A, **Stitzel J**, Horton, WJ, Filbey F. 2008. The incentive salience of alcohol: translating the effects of genetic variant in *CNR1*. *Arch Gen Psychiatry.* 65:841-50.

54. **Stitzel JA**. 2008. Naturally-occurring genetic variability in the nicotinic acetylcholine receptor alpha4 and alpha7 subunit genes and phenotypic diversity in humans and mice. *Front Biosci.* 13:477-91
55. Hutchison KE, Allen DL, Filbey FM, Jepson C, Lerman C, Benowitz NL, **Stitzel J**, Bryan A, McGeary J, Haughey HM. 2007. CHRNA4 and tobacco dependence: from gene regulation to treatment outcome. *Arch. Gen. Psychiatry* 64:1078-86
56. Chadman KK, Woods JH, **Stitzel J**. 2007. Chlorisondamine inhibits the nicotine-induced stimulation of c-fos in the pigeon brain for up to 2 weeks. *Nicotine. Tob. Res.* 9:927-36
57. Mexal S, Jenkins PM, Lautner MA, Jacob E, Crouch EL, **Stitzel JA**. 2007. alpha7 nicotinic receptor gene promoter polymorphisms in inbred mice affect expression in a cell type-specific fashion. *J. Biol. Chem.* 282:13220-7
58. Li XC, \*Karadsheh MS, Jenkins PM, Brooks JC, Drapeau JA, \*Shah MS, Lautner MA, **Stitzel JA**. 2007. Chromosomal loci that influence oral nicotine consumption in C57BL/6J x C3H/HeJ F2 intercross mice. *Genes Brain Behav.* 6:401-10
59. Adams CE, Yonchek JC, **Stitzel JA**. 2006. Development of hippocampal alpha7 nicotinic receptors in C3H and DBA/2 congenic mice. *Brain Res.* 1122:27-35
60. Butt CM, King NM, Hutton SR, Collins AC, **Stitzel JA**. 2005. Modulation of nicotine but not ethanol preference by the mouse Chrna4 A529T polymorphism. *Behav. Neurosci.* 119:26-37
61. Li XC, \*Karadsheh MS, Jenkins PM, **Stitzel JA**. 2005. Genetic correlation between the free-choice oral consumption of nicotine and alcohol in C57BL/6JxC3H/HeJ F2 intercross mice. *Behav. Brain Res.* 157:79-90
62. Azam L, Dowell C, Watkins M, **Stitzel JA**, Olivera BM, McIntosh JM. 2005. Alpha-conotoxin Bu1A, a novel peptide from *Conus bullatus*, distinguishes among neuronal nicotinic acetylcholine receptors. *J. Biol. Chem.* 280:80-7
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  50. Wilking JA, Hestergerg, K, and **Stitzel JA**. Inbred mouse strain and age comparison of nicotine oral consumption and baseline anxiety measures. Program No. 879.7. Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
  51. McClure-Begley T, Marks MJ, Grady SR, Collins AC and **Stitzel JA**. Acute systemic nicotine administration in vivo activates the protein phosphatase calcineurin in mouse striatum: A process requiring both beta2\* nAChRs and GABA<sub>B</sub> receptors. Program No. 34.15. Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
  52. Dash B, Bhakta M, Whiteaker P, **Stitzel J**, Chang Y and Lukas R. Gain of function mutants in human or mouse nAChR  $\beta 3$  subunits interchangeably activate either human or mouse  $\alpha 6\beta 4^*$ -nAChR but not human or mouse  $\alpha 6\beta 2^*$ -nAChR. Program No. 34.7. Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
  53. **Stitzel JA**, Horton WJ, Myrick ME, Van Engelenberg SB. The CHRNA5 D398N polymorphism alters the function of alpha4beta2alpha5 nicotinic receptors. Program No. 627.8. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2008.

54. Wilking JA, Hesterberg KG, and **Stitzel JA**. Interaction of Chrna4 T529A polymorphism with S530 modulates  $\alpha 4\beta 2$  nAChR expression. Program No. 233.14. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2008.
55. Saccone NL, Saccone SF, Hinrichs AL, **Stitzel JA**, Duan W, Pergadia ML, Agrawal A, Breslau N, Chase GA, Grucza RA, Hatsukami D, Johnson EO, Madden PAF, Swan GE, Wang, JC, Goate AM, Rice JP, and Bierut LJ. Independent and interacting nicotinic receptor variants influence nicotine dependence risk. Am Soc. Human Genetics Annual Meeting, 2008.
56. Hoft N, Miyamoto J, **Stitzel J**, and Ehringer M. Single nucleotide variations upstream of CHRNA3 affect reporter gene expression. Am Soc. Human Genetics Annual Meeting, 2008.
57. Drapeau JA, Crouch EL, Horton WJ, \*Hua A and **Stitzel JA**. Influence of the Chrna4 A529T polymorphism on nicotine sensitivity in T529A Chrna4 knockin mice. Program No. 574.17. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2007.
58. Horton WJ, Drapeau JA, and **Stitzel JA**. The CDK5 activators p35 and p25 differentially modulate alpha4beta2 nAChRs. Program No. 574.16 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2007.
59. Mexal S, Crouch EL, Horton WJ, Maier S, \*Marsolek M, \*Wilkinson A, \*Quick E, and **Stitzel JA**. Circadian variation in nicotine sensitivity in melatonin-proficient and deficient inbred mouse strains. Program No. 573.9 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2007.
60. **Stitzel JA**, Li XC, \*Karadsheh MS, Jenkins PM, Brooks JC, Drapeau JA, \*Shah MS, Lautner MA. Chromosomal loci that influence oral nicotine consumption in C57BL/6J x C3H/HeJ F2 intercross mice. Program No. 393.7 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006.
61. Drapeau JA, Horton WH, **Stitzel JA**. Molecular mechanism of CDK5 modulation on mouse  $\alpha 4\beta 2$  nicotinic acetylcholine receptor function Program No. 325.4 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006.
62. Mexal S, \*Maier S, **Stitzel JA**. The Interaction of Chrna7 genotype and sex contributes to the regulation of prepulse inhibition in mice. Program No. 587.4 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006.
63. **Stitzel JA**, Brooks JC, \*Karadsheh MS, \*Flanagan BA, Horton WJ, Butt CM. Modulation of  $\alpha 4\beta 2$  nicotinic acetylcholine receptors by CDK5 Program No. 722.6. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2005.
64. Drapeau JA, Livingstone PD, Brooks JC, **Stitzel JA** Pharmacological characterization of mouse  $\alpha 6\beta 3\beta x$  nicotinic acetylcholine receptors (nAChRs) in transiently transfected human embryonic kidney (HEK) cells Program No. 951.14. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2005.
65. **Stitzel JA**, \*Karadsheh MS, \*Shah MS, Tang X, Macdonald RL. Functional characterization of mouse  $\alpha 4\beta 2$  nicotinic acetylcholine receptors stably expressed in HEK293T cells.

Program No. 275.4. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004.

66. Adams CE, Yonchek JC, **Stitzel JA**. Development of the  $\alpha 7$  nicotinic receptor subtype in hippocampus of congenic C3H and DBA/2 mice Program No. 842.18. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004.
67. Dowell CD, Azam L, Watkins M, **Stitzel JA**, Olivera BM, McIntosh JM.  $\alpha$ -conotoxin buia from *conus bullatus* distinguishes between  $\beta 2$ - and  $\beta 4$ -containing nicotinic acetylcholine receptors Program No. 956.3. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004.
68. **Stitzel JA**, Jenkins PM, Lautner MA. Chrna7 promoter polymorphisms in mice affect gene expression in a cell type-specific fashion. Program No. 465.8. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2003.
69. **Stitzel JA**, Kim H, \*Flanagin BA, and Macdonald RL. The mouse Chrna4 A529T polymorphism alters the affinity isotherm ratio of  $\alpha 4\beta 2$  nAChRs. Society for Neuroscience Annual Meeting program number 537.16 2002.
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71. \*Yau W, \*Qin C, and **Stitzel JA**. Missense SNP Detection Among Members of the Neuronal Nicotinic Receptor Gene Family in Mice. International Behavioral and Neural Genetics Society Abstracts 2001.
72. Adams CE, **Stitzel JA**, Collins AC, and Freedman R.  $\alpha 7$  Nicotinic Receptor Expression and the Anatomical Organization of Hippocampal Interneurons. Society for Neuroscience Abstracts 27:145.3. 2001.
73. Stevens KE, **Stitzel JA**, Jimenez M, Collins AC. Transferring the  $\alpha 7$  Nicotinic Receptor between Different Mouse Backgrounds Alters Auditory Gating. Society for Neuroscience Abstracts 27:145.4. 2001.
74. **Stitzel JA**, Modir JG, \*Goel N, \*Saragoza PA, Collins AC. Identification of an alternatively processed nAChR  $\alpha 7$  subunit RNA in mouse brain. Society for Neuroscience Abstracts 26:pg 2000.
75. **Stitzel JA**, Jimenez MA, Dobelis P, Whiteaker P, Marks MJ and Collins AC. nAChR  $\alpha 4$  Subunit Variants in Mice. Neuronal Nicotinic Receptors: The 10th Neuropharmacology Conference. 2000.
76. de Fiebre CM, de Fiebre NC, **Stitzel JA**. Unusual Isoforms of nAChR  $\alpha 4$  Subunits Respond Differentially to Acetylcholine. Neuronal Nicotinic Receptors: The 10th Neuropharmacology Conference. 2000.
77. Tritto T, **Stitzel JA**, Jimenez MA, Collins BA, Paylor R and Collins AC.  $\alpha 7$  nicotinic receptor modulation of acoustic startle and prepulse inhibition of startle. Neuronal Nicotinic

Receptors: The 10th Neuropharmacology Conference. 2000.

78. Freedman R, Adler LE, Adams CE, Collins AC, Leonard S, Ross RG, Stevens KE, **Stitzel JA**. Genetic studies of the schizophrenia spectrum: phenotypic interaction. *Collegium Internationale Neuropsychopharmacology*. 2000.
79. **Stitzel JA**, Tritto T, Jimenez MA, Marley J, and Collins AC. A Polymorphism Associated with the alpha 4 Nicotinic Receptor Gene May Influence Alcohol Preference. *Research Society on Alcoholism. Clin. Exper. Res.*, 24(suppl.), p. 57A. 2000.
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84. Vetter DE, **Stitzel JA**, Elgoyhen AB, Safiote J, Mann J, Barhanin J, Collins AC, and Heinemann SF. Altered Cochlear Efferent Fiber Innervation Patterns and Acoustic Startle Reflex in Alpha 9 nAChR Subunit Knockout Mice. *Society for Neuroscience Abstracts, Volume 23*, 1997.
85. Stevens KE, Collins AC, Marks MJ, **Stitzel JA**, and Freedman R. Inheritance of a Schizophrenia-like Deficit in Auditory Gating Fits a One Gene Model in Inbred Mouse Strains. *Abstract. Schizophrenia Research, Volume 24*, 1997.
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88. **Stitzel JA** Embryonic and Postnatal Expression of High Affinity Nicotine Binding Sites and Nicotinic Receptor Subunit RNAs in Mice. *Abstract. International Society for Developmental Neuroscience. Volume 14, supplement 1*. 1996.
89. **Stitzel JA**, Farnham DA, and Collins AC. The relationship between  $\alpha 7$  Genotype and  $\alpha$ -BTX Levels is Likely Due to Variation in Non-Coding Portions of  $\alpha 7$ . *Society for Neuroscience Abstracts, Volume 21*, 1995.

90. **Stitzel JA**, Farnham DA, and Collins, AC. RFLP Analysis of the Relationship between the Inheritance of Strain-Specific nAChR Alleles, Nicotine-Induced Seizure Sensitivity and Levels of [<sup>125</sup>I]- $\alpha$ -Bungarotoxin Binding. Abstract. International Symposium on Nicotine: The effects of Nicotine on Biological Systems II. 1994.
91. Pauly JR, **Stitzel JA**, Marks MJ, and Collins AC. A quantitative autoradiographic analysis of nicotinic receptor binding following chronic nicotine infusion. The Society for Neuroscience Abstracts 14: 1327. 1988.
92. Pauly JR, **Stitzel JA**, Marks MJ, and Collins AC. Autoradiographic analysis of nicotinic receptors in mouse brain. Alcoholism: Clinical and Experimental Research 11: 224. 1987.
93. Marks MJ, **Stitzel JA**, Campbell SM, and Collins AC. Disulphide modification of nicotinic binding sites in mouse brain. Federation Proceedings 46: 856. 1987.
94. Collins AC, **Stitzel JA**, and Marks MJ. Nicotine tolerance and receptors following pulse infusion of nicotine. The Pharmacologist 28: 236. 1986.
95. Marks MJ, **Stitzel JA**, and Collins AC. Changes of responses and receptors with time of nicotine treatment. The Pharmacologist 27: 136. 1985

## INVITED PRESENTATIONS

### ***Symposia/workshops/Selected talks***

Keynote Lecture: Behavioral Genetics and Nicotinic Receptors. Presented at the First Institut Pasteur Workshop on Human Polymorphisms in Nicotinic Receptor Genes: From Genetics to Personalised Treatment. July 18-19 2014. Paris, France.

The CHRNA5 D398N Variant and Nicotine Dependence: In Vitro and in Vivo Functional Studies. World Congress on Psychiatric Genetics, Boston, MA. 2013

Interaction between a naturally occurring Chrna4 polymorphism in mice and Chrna5-dependent oral nicotine intake. Annual Genes Brain and Behaviour Meeting of IBANGS. Boulder, CO 2012.

Chrna4 T529A knockin mice: A model for understanding the role of naturally occurring polymorphisms in modulating brain function, nicotine sensitivity and gene by age interactions. NIDA: Fundamental Genetics in Drug Abuse and Addiction. Hollywood, FL June 17, 2011

Epigenetics in animal models of addiction: opportunities and challenges. National Hispanic Science Network on Drug Abuse (NHSN) Annual Scientific Meeting, 2010.

CHRNA5 D398N SNP: Implications for Addiction and Lung Cancer Risk. Gene Environment Association Studies (GENEVA) Steering Committee Meeting. 2010

The effect of *chrna5* deletion on nicotine consumption in mice is dependent upon genetic background. Society for Research on Nicotine and Tobacco Annual Meeting, 2010.

Chrna4 T529A knockin mice: A model for understanding the role of naturally occurring polymorphisms in modulating brain function, nicotine sensitivity and gene by age interactions. Society for Research on Nicotine and Tobacco Annual Meeting, 2010.

Chrna5, nAChR function and nicotine sensitivity in mice. Society for Research on Nicotine and Tobacco Annual Meeting, 2008.

Nicotinic receptor polymorphisms and nicotine sensitivity in mice. World Congress of Psychiatric Genetics. October, 2007. New York, New York.

Chrna7 congenic mice: Amenable to meaningful microarray analysis? Invited speaker & participant National Institute on Drug Abuse workshop entitled: Addiction, Microarrays and Gene Discovery. May 31- June 1 2007.

Genetic variability in Chrna4 modulates nicotine sensitivity in mice. Society for Research on Nicotine and Tobacco Annual Meeting, 2006

Molecular genetic analysis of nicotine oral-self selection in mice. Society for Research on Nicotine and Tobacco Annual Meeting, 2003

Nicotinic receptor subunit gene polymorphisms and nicotine sensitivity in mice. Keystone Symposium. Granlibakken, CA. 2000.

Nicotine Sensitivity and Molecular Variations of the nAChR  $\alpha$ 7 Subunit Gene. Society for Research on Nicotine and Tobacco Annual Meeting 1998.

Embryonic and Postnatal Expression of High Affinity Nicotine Binding Sites and Nicotinic Receptor Subunit RNAs in Mice. Intl. Society for Developmental Neuroscience. Tampere, Finland 1996.

### ***Colloquia/Seminars***

Blame it on grandma: in utero nicotine exposure has multi-generational effects on brain and behavior. Penn State University. October 9, 2019.

Blame it on Grandma: Developmental nicotine exposure elicits multigenerational effects on behavior, brain biochemistry and the epigenome. University of Denver. May 21, 2018

Genetic variability in nicotinic receptor genes: influence on nicotine intake, reinforcement and aversion. Medical University of South Carolina. January 5, 2012

Alpha5 nicotinic receptors: a target for cancer reduction through smoking cessation pharmacotherapy? University of Colorado Comprehensive Cancer Center, November 29, 2011.

Genetic Variability in Chrna7 Impacts the Development and Function of the Hippocampus. Department of Biology, The Johns Hopkins University, Baltimore, MD. November 20, 2008.

The Chronopharmacology of Nicotine. Neuroscience Seminar Series, University of Colorado, Boulder, CO Fall 2007.

Neurobiology of the Behavioral and Physiological Effects of Nicotine: Clues from Genetics. Regis University, Denver, CO. 2005. Note: presentation not given due to death in the family.

Molecular Genetic Approaches Towards Understanding the Behavioral and Physiological

Effects of Nicotine. Institute for Behavioral Genetics and Department of Integrative Physiology. University of Colorado, Boulder, CO 2003

Use of Mice to Understand the Genetics of Nicotine Addiction. American Cancer Society, Detroit, MI. 2003

From Genome to Phenome: Identifying Molecular Variations that Underlie Heritable Phenotypic Diversity in Mice. Institute for Behavioral Genetics and Department of Molecular, Cellular, and Developmental Biology. University of Colorado, Boulder, CO. 2002.

Genetics of Nicotine Addiction: Animal Models. Division of Thoracic Oncology. University of Michigan Medical Center, Ann Arbor, MI. 2002.

Genetic Influences on Vulnerability to Drugs of Abuse. Substance Abuse Research Center, University of Michigan, Ann Arbor, MI 2002.

Drug Abuse: Genetic and Other Risk Factors. Substance Abuse Research Center, University of Michigan, Ann Arbor, MI 2000.

Identifying Genes that Influence Sensitivity to Nicotine: Lessons from the Mouse. Cancer Center Grand Rounds, University of Michigan Medical Center, Ann Arbor, MI 1999.

Molecular Analysis of Genetic Differences in Nicotine Sensitivity. Mental Health Research Institute, Department of Psychiatry, University of Michigan Medical School, Ann Arbor, MI 1999.

### **Departmental Colloquia**

Using Genetics to Understand the Neurobiology of Behavior. IPHY Colloquium, Fall 2019

Impact of Nicotine on Sleep in Mice. IPHY Colloquium, Fall 2015.

Physiological Genetics of Nicotine Dependence, IPHY Colloquium, Spring 2014.

The use of Genetic Strategies to Identify the Underlying Biology of Complex Phenotypes. IPHY Colloquium, Fall 2009.

Genetic Variability in Chrna7 Impacts the Development and Function of the Hippocampus. IPHY Colloquium, Fall 2008.

Genetic Influences on the Reinforcing Properties on Nicotine in Mice. IPHY Colloquium, Fall 2007.

The Dark Side of Nicotine: Diurnal Influences on the Effects of Nicotine. IPHY Colloquium, Fall 2006.

Neurogenetics of Nicotinic Receptors and Nicotine Sensitivity in Mice. IPHY Colloquium, Fall 2005.

Neurobiology of the Behavioral and Physiological Effects of Nicotine: Clues from Genetics. IPHY Colloquium, Fall 2004.

## TEACHING CONTRIBUTIONS

### University of Colorado, Boulder, CO

- 2023                    On sabbatical, Spring 2023
- IPHY 4870-926, Independent Study. Professor, 1 student.
- 
- 2022                    IPHY 4200-001, Physiological Genetics and Genomics. Professor, 10 students
- IPHY 5200-010, Physiological Genetics and Genomics, Professor, 8 students
- IPHY6010-001, Seminar: Method in Behavioral Genetics, led 2 lectures and 2 labs on CRISPR/Cas9 methodology
- IPHY 1020, Intro to IPHY. Guest speaker.
- 
- 2021                    IPHY 4200-001, Physiological Genetics and Genomics. Professor, 24 students
- IPHY 5200-010, Physiological Genetics and Genomics, Professor, 11 students
- IPHY 5200-012, Recitation: Physiological Genetics and Genomics recitation, Professor, 11 students
- PSYC 5200-010, Physiological Genetics and Genomics, Professor, 1 student
- PSYC 5200-012, Recitation: Physiological Genetics and Genomics, Professor, 1 student
- 
- 2020                    IPHY 4200-001, Physiological Genetics and Genomics. Professor, 16 students
- IPHY 4870-926, Independent Study. Professor, 1 student.
- IPHY 5200-010, Physiological Genetics and Genomics, Professor, 6 students
- IPHY 5200-012, Recitation: Physiological Genetics and Genomics recitation, Professor, 6 students
- PSYC 5200-010, Physiological Genetics and Genomics, Professor, 3 students
- PSYC 5200-012, Recitation: Physiological Genetics and Genomics, Professor, 3 students

EBIO5800/IPHY 6010, Seminar: Methods in Behavioral Genetics, lecturer, 6 students

2019

IPHY 4200-001, Physiological Genetics and Genomics. Professor, 16 students

IPHY 4870-926, Independent Study. Professor, 1 student.

IPHY 5200-010, Physiological Genetics and Genomics, Professor, 6 students

IPHY 5200-012, Recitation: Physiological Genetics and Genomics recitation, Professor, 6 students

IPHY5840-926, Graduate Independent Study, Professor, 1 student.

PSYC 5200-010, Physiological Genetics and Genomics, Professor, 4 students

PSYC 5200-012, Recitation: Physiological Genetics and Genomics, Professor, 4 students

IPHY 6010, Seminar: Methods in Behavioral Genetics, course Co-director, 6 students

PSYC 7102, Seminar: Methods in Behavior Genetics, course Co-director, 4 students

2018

IPHY 4200-001, Physiological Genetics and Genomics. Professor, 14 students

IPHY 4870-826, Honor's Thesis. Professor, 1 student.

IPHY 5200-010, Physiological Genetics and Genomics, Professor, 1 student

IPHY 5200-012, Recitation: Physiological Genetics and Genomics recitation, Professor, 1 student

IPHY5840-926, Graduate Independent Study, Professor, 1 student.

PSYC 5112, Scientific Integrity/Ethics. Faculty discussant.

2017

IPHY 4200-001, Physiological Genetics and Genomics. Professor, 12students

IPHY 5200-010, Physiological Genetics and Genomics, Professor, 4 students

IPHY 5200-012, Recitation: Physiological Genetics and Genomics recitation, Professor, 4 students

PSYC 5200-010, Physiological Genetics and Genomics, Professor, 1 student

PSYC 5200-012, Recitation: Physiological Genetics and Genomics,  
Professor, 1 student

MCDB 4840 (Independent Study). Supervised 1 student.

2016

IPHY 4200-001, Physiological Genetics and Genomics. Professor, 13  
students

IPHY5200-010, Physiological Genetics and Genomics, Professor, 5 students

IPHY5200-011, Recitation: Physiological Genetics and Genomics recitation,  
Professor, 5 students

PSYC5200-010, Physiological Genetics and Genomics, Professor, 8 students

PSYC5200-011, Recitation: Physiological Genetics and Genomics,  
Professor, 8 students

PSYC5211-010, Responsible Conduct in Research, discussant

IPHY4860-926, Independent Study, Professor, 2 students.

Responsible Conduct in Research, Discussant for Conflict of Interest.

2015

IPHY4860-926. Independent Study (Fall). Professor, 1 student.

IPHY4860-572S. Independent Study (Summer). Professor, 1 student.

Note: on sabbatical Spring 2015

2014

Responsible Conduct in Research. Breakout discussion leader on the use of  
human and animal subjects.

IPHY 4200-001. Physiological Genetics and Genomics (Spring). Professor,  
24 students.

IPHY 5200-010. Physiological Genetics and Genomics (Spring). Professor, 9  
students.

IPHY 5200-011. Recitation: Physiological Genetics and Genomics (Spring).  
Professor, 9 students.

PSYCH 5200-010. Physiological Genetics and Genomics (Spring). Professor,  
2 students.

PSYCH 5200-011. Recitation: Physiological Genetics and Genomics  
(Spring). Professor, 2 students.

IPHY 4860-926. Independent Study (Spring). Professor, 1 student.

IPHY4860-572S. Independent Study (Summer). Professor, 1 student.

2013 Responsible Conduct in Research. Breakout discussion leader on the ethics of Authorship and Peer Review

IPHY4930-926. Internship (Fall). Sponsor, 1 student

IPHY 4860-926. Independent Study (Fall). Sponsor, 1 student

IPHY 4860-926. Independent Study (Spring). Professor, 1 student.

IPHY4860-572S. Independent Study (Summer). Professor, 1 student.

IPHY 4200-001. Physiological Genetics and Genomics (Spring). Professor, 21 students.

IPHY 5200-010. Physiological Genetics and Genomics (Spring). Professor, 5 students.

IPHY 5200-011. Recitation: Physiological Genetics and Genomics (Spring). Professor, 5 students.

PSYCH 5200-010. Physiological Genetics and Genomics (Spring). Professor, 1 student.

PSYCH 5200-011. Recitation: Physiological Genetics and Genomics (Spring). Professor, 1 student.

2012 Responsible Conduct in Research. Breakout session leader on the use of animals in research.

IPHY-4860-574. Independent Study. Professor, 1 student.

IPHY-4930-865. Internship (summer). Sponsor, 1 student.

IPHY 4200-001. Physiological Genetics and Genomics (Spring). Professor, 27 students.

IPHY 5200-010. Physiological Genetics and Genomics (Spring). Professor, 4 students.

IPHY 5200-011. Recitation: Physiological Genetics and Genomics (Spring). Professor, 4 students.

PSYCH 5200-010. Physiological Genetics and Genomics (Spring). Professor, 5 students.

PSYCH 5200-011. Recitation: Physiological Genetics and Genomics

- (Spring). Professor, 5 students.
- 2011 IPHY-4860-574. Independent Study. Professor, 1 student.
- IPHY 4200-001. Physiological Genetics and Genomics (Spring). Professor, 13 students.
- IPHY 5200-010. Physiological Genetics and Genomics (Spring). Professor, 4 students.
- IPHY 5200-011. Recitation: Physiological Genetics and Genomics (Spring). Professor, 4 students.
- PSYCH 5200-010. Physiological Genetics and Genomics (Spring). Professor, 4 students.
- PSYCH 5200-011. Recitation: Physiological Genetics and Genomics (Spring). Professor, 4 students.
- 2010 IPHY 4200-001. Physiological Genetics and Genomics (Spring). Professor, 18 students.
- IPHY 5200-010. Physiological Genetics and Genomics (Spring). Professor, 7 students.
- IPHY 5200-011. Recitation: Physiological Genetics and Genomics (Spring). Professor, 7 students.
- PSYCH 5200-010. Physiological Genetics and Genomics (Spring). Professor, 5 students.
- PSYCH 5200-011. Recitation: Physiological Genetics and Genomics (Spring). Professor, 5 students.
- IPHY 4870. Honor's Thesis (Fall). Kavitha Muruganantham
- IPHY 4860. Independent Study (Fall). Michelle Kínees
- IPHY 4860. Independent Study (Summer). John Vu
- 2009 IPHY 5100. Colloquium in Integrative Physiology (Fall). Title of Colloquium: The Use of Genetic Strategies to Reveal the Underlying Biology of Complex Phenotypes
- IPHY 5840. Independent Study (Fall). Janessa Jacobs
- IPHY 4200. Physiological Genetics and Genomics (Spring). Professor, 13 students.
- IPHY4860. Independent Study (Summer). Hiram Rodriguez-Torres

- IPHY 4860. Independent Study (Spring). Sponsor, Dana Jorgenson
- IPHY 6840. Research Project (Spring). Janessa Jacobs
- 2008 IPHY 6010. Molecular Genetics and Addiction (Fall). Professor, 4 students
- IPHY 5840. Independent Study (Spring). Advisor, Sheila Maier.
- IPHY 5100. Colloquium in Integrative Physiology (Fall). Title of Colloquium: Neurobiological Consequences of Genetic Variability in Mouse Chrna7: Implications for Mental Health
- IPHY4200. Physiological Genetics and Genomics (Spring). Professor, 15 students.
- IPHY 4860. Independent Study (Summer). Sponsor, Alan Rodriguez Penney, SMART Program Intern.
- IPHY 4860. Independent Study (Fall). Sponsor, Dana Jorgenson
- IPHY 4870. Honor's Thesis (Spring). Advisor, Kelsey Whittington and Andra Wilkinson.
- Participation in Behavioral Genetics Training Program Journal Club
- 2007 IPHY4200. Physiological Genetics and Genomics (Spring). New Course, Professor, 12 students.
- IPHY4860. Independent Study (Fall). Sponsor, Claire Donley.
- IPHY 5100. Colloquium in Integrative Physiology (Fall). Title of Colloquium: Genetic influences on the reinforcing properties of nicotine in mice.
- IPHY5232. Molecular Genetics and Behavior (Fall). Professor, 11 students.
- IPHY 5960. Master's Thesis (Fall). Advisor, Sheila Maier.
- PSYCH 5232. Molecular Genetics and Behavior (Fall). Professor, 9 students
- NRSC 6100. Advances in Neuroscience Research. Topic title: Nic at night: The chronopharmacology of nicotine.
- Participation in Behavioral Genetics Training Program Journal Club
- 2006 IPHY2600. Introduction to Research Methods (Spring). Professor, 27 students
- IPHY4930. Internship in Integrative Physiology (Spring). Faculty Sponsor for Michael Mestes

IPHY4930. Internship in Integrative Physiology (Summer).  
Faculty Sponsor for Michael Mestes.

IPHY4860. Independent Study (Summer). Sponsor, Eamon Quick, SMART  
Program Intern.

IPHY 5100 Colloquium in Integrative Physiology. Title of Colloquium: The  
dark side of nicotine: Diurnal influences on the effects of nicotine.

Participant in the Behavioral Genetics Training Program Journal Club (Spring,  
Fall)

2005 IPHY/PSYCH5232. Molecular Genetics and Behavior (Fall).  
Professor, 10 students

IPHY5100. Colloquium in Integrative Physiology (Fall).  
Lecturer. "Neurogenetics of nicotinic receptors and nicotine sensitivity in  
mice".

IPHY2600. Introduction to Research Methods (Spring).  
Professor, 30 students

Participant in the Behavioral Genetics Training Program Journal Club (Spring,  
Fall)

2004 IPHY6010. Molecular Genetics and Addiction (Fall). New course.  
Professor, 5 students

IPHY5100/4100. Colloquium in Integrative Physiology (Fall).  
Lecturer. "Neurobiology of the behavioral and physiological effects of  
nicotine: Clues from genetics".

Participant in the Behavioral Genetics Training Program Journal Club (Fall)

#### University of Michigan, Ann Arbor, MI

2003 Pharm 525. Pharmacology (Medical Student Course)  
Guest Lecturer

Pharm 611. Principals in Pharmacology (Graduate Student Course)  
Guest Lecturer

Pharm 630. General Pharmacology (PharmD and Nursing Students)  
Guest Lecturer

2002 Pharm 525. Pharmacology (Medical Student Course)  
Guest Lecturer

Pharm 630. General Pharmacology (PharmD and Nursing Students)

Guest Lecturer

2001 Science in Clinics, Department of Psychiatry  
University of Michigan Medical School, Ann Arbor, MI

### **TEACHING ENHANCEMENT**

Fall 2007 Attended MCDB 6440: Teaching and Learning Seminar  
Fall 2006 Attended "Getting Students to Talk" workshop presented by FTEP 9/12/06.  
Fall 2006 Attended ITS training on CULearn, 12/14/06

### **ADVISORY AND SUPERVISORY RESPONSIBILITIES (Primary mentor).**

University of Colorado, Boulder, CO.

#### ***Current and Past Graduate Trainees***

2021-present Sid Aki, PhD advisor  
2020-2021 Julia Potocnjak-Overn (left program for personal reasons)  
2017-2019 Amanda Alvarado, MS advisor. The effect of chronic nicotine administration and abstinence from nicotine on stress reactivity in female and male C57BL/6J mice  
2016-2020 Jordan Buck. PhD advisor Developmental Nicotine Exposure Induces Intergenerational Transmission of an Ensemble of Neurodevelopmental Disorder-like Behavioral, Neuropharmacological, Neurotrophic, Neuroendocrine, Epigenetic, and Neurotranscriptomic Phenotypes in Adolescent Mice  
2014-2020 Hunter Mathews. PhD Advisor Characterization of the effects of nicotine administration and abstinence on sleep, anxiety-like behavior, and the orexinergic system: Role of Chrna4 and Chrna5  
2011-2016 Coral Cabrera. PhD Advisor-left program due to health issues  
2011 Lauren Ljunghag, BA/MS Advisor-left program before completion  
2009-2013 William Horton. PhD Advisor. The Effect of Melatonin on Nicotine Behaviors and Nicotinic Acetylcholine Receptor Function  
2009-2010 Sarah Foale. International Placement Masters Student, University of Bath, Bath, England  
2008-2010 Janessa Jacobs. Time of day effects on nicotine-induced cfos activity. MA Advisor.  
2008-2010 Tristin McClure-Begley. "Regulation of  $\alpha 4\beta 2$  nicotinic receptor function by calcineurin and protein kinase C". PhD Advisor.

- 2006-2008 Sheila Maier. "Role of melatonin in regulating diurnal variations in sensitivity to the effects of nicotine". BA/MA advisor.
- 2005-2009 Jennifer Wilking. "Role of Chrna4 T529A polymorphism in modulating nicotinic receptor function and sensitivity to nicotine". PhD advisor.
- 2005-2007 Shawn Morgan. "The  $\alpha 5$  nicotinic receptor subunit: Role in receptor function and sensitivity to nicotine. PhD advisor.
- 2005 Christopher Duffy. "Expression of the  $\alpha 5$  nicotinic receptor subunit in mouse brain" International Placement Masters Student, University of Bath, Bath, England
- 2004-2005 Philip Livingstone. "Genetic influence on the expression of  $\alpha 3$ ,  $\alpha 5$  and  $\beta 4$  nicotinic receptor genes in mice". International Placement Masters Student, University of Bath, Bath, England.

### ***Current and Past Undergraduate Trainees***

\* Indicates co-author on a published abstract

† Indicates co-author on a published manuscript

‡ Indicates first author on a published manuscript

§ Indicates co-author on a citation in NCBI DNA Sequence Database

**BSI** = Biological Sciences Initiative

**BURST** = Bioscience Undergraduate Research Skills and Training

**HHMI** = Howard Hughes Medical Institute

**MASP** = Minority Arts and Sciences Program

**SMART** = Summer Multicultural Access to Research Training

**SURE** = Summer Undergraduate Research Experience

**UROP** = Undergraduate Research Opportunities Program

### University of Colorado, Boulder, CO

2023- Andreas Vassaux

2023- Jordan Roberts

2023 Madison Sandler (**SMART**, UC Davis)

2022-2023 Sophie Powell\*

2021 Macy Feign

2021-2022 Areeba Nauman

2021-2022 Sophie Koch

2021-2022 Peter Starbuck\*

2020-2021 Maxim Kondratenko\*

2020-2021 Lydia Walker

2020-2021 Hunter Schreiner

2020-2021 Julia Fontana

2020-2021 Amelia Beck

2020-2021 Megan Joyce

2019-2021 Joslynn Jones\*

2019-2020 Dave Wichman†

2019-2022 Morgan Brown\*† (**BSI Scholar's Award** 2021-2022; Honor's Thesis (Summa Cum Laude))

2019-2021 Sam Allsup\*  
 2019-2021 Brooke Brounstein  
 2019-2020 Abigail Noonan  
 2019-2020 Emily Miller  
 2019-summer Sango Kasongo (**SMART**, The Ohio State University)  
 2019 Amey Srivastava  
 2019 Sean Pierce  
 2018-2019 Audrey Lynn  
 2018-2019 Hunter Dagnon  
 2018-2019 Alec Haukness  
 2018-2019 Tyler am  
 2018-summer Ivette Gonzalez (**SMART**, San Diego State University)  
 2017-2021 Julia Fontana  
 2017-2019 Darby Keirns  
 2017-2019 Connor Littlefield  
 2017-2019 Kelsey Sanders\*†  
 2017-summer Betsy Juarez (**SMART**, University of California, Irvine)  
 2016-2018 Averil Richert  
 2016-2018 Vishnu Iyer\* (**Honor's Thesis, Magna Cum Laude**)  
 2016-2018 Jordan Anders  
 2016-2017 Michael Donavan  
 2016-summer Tania Ramos-Santiago\*† (**SMART**, University of Puerto Rico, Rio Piedras)  
 2015-2019 Sara Ahmad\* (**BSI Scholar**, summer 2017, AY 2017-18, **EXROP Scholar**,  
 summer 2018)  
 2015-2018 Lauren Jimenez\*  
 2015-2017 Rhianna Rubner\*  
 2015-2017 Mitchell Frydenlund  
 2015-2017 Taylor Ryan  
 2015-2016 Mackenzie King  
 2015-2016 Daniella Escobar\*†  
 2015-Summer Anna Morales (**SMART**, Univ. of Texas at Dallas))  
 2014-2015 Jackie Turner (**BURST**)  
 2014 Athena Wallace (**UROP**)  
 Shaina Vo  
 2014 Emily Wagner  
 2014-Summer Eduardo Villegas (**SMART**, Univ. of Arizona)  
 2014-Summer Haylie Petrick (**Conte Center Summer Research Fellow**), recipient, best poster  
 presentation  
 2013 Kate Anderson (**Conte Center Summer Research Fellow**), recipient, best  
 poster presentation  
 2013 Sweta Adhikary (**Internship sponsor**)  
 2013-Summer Marco Carpenter (**SMART**, Clark University)  
 Hunter Warwick (**UCD Cancer Center Summer Fellowship**, Brown University)  
 2012-2013 Meaghan Langlely  
 Luke Abel  
 John Salisbury (**BURST**)  
 Jennifer Saboy \* †  
 2012 Andrew Ormsby (**Conte Center Summer Research Fellow**)  
 2012-Summer Rena Yang (**UCD Cancer Center Summer Fellowship**)  
 2012-Summer Mikki Mesfin (**SMART**, University of Denver)  
 2011-2013 Nick Lahvic

Patricia Wuu (**Conte Center Summer Research Fellow**)

2011-2012 Lori Frazer\*  
Alex Grover  
Lauren Ray  
2011-summer Maribel Granja (**SMART**, Rutgers University)  
2010-2012 Hannah Gissel \*†  
2010-2011 Michelle Knees (**Honor's Thesis, Magna Cum Laude**)  
Lauren Ljunghag (**BURST**) \*  
Dave Sheneman (**BURST, HHMI**) \*  
2010-summer John Vu (**SMART**, Brown University)  
2009-2011 Penny Herder (**UROP, Conte Center Summer Research Fellow**) \*†  
2009-2011 Kavitha Muruganatham (**Norlin Scholar, UROP, Honor's Thesis (Magna Cum Laude)**)  
2009-2010 Aaron Lam (**BURST**)  
2009-summer Hiram Rodriguez Torres (**SMART**, University of Puerto Rico, Mayaguez)  
2008-2010 Vivian Nguyen (**MASP**) †  
Christine Nguyen (**BURST, HHMI**)  
Amanda Cyboron \*†  
2008-summer Alan Rodriguez Penney (**SMART**, University of Puerto Rico, Rio Piedras)  
2008-summer Jessica Garner (Visiting student from Scripps College) \*  
2008-spring Sophia Morlan (**UROP**)  
Annie Tieu (**MASP, UROP**)  
2007-2008 Kelsey Whittington (**Honor's Thesis (Summa Cum Laude)**) Van Ek Award\*  
2007-2008 Andra Wilkinson (**UROP, Honor's Thesis (Summa Cum Laude)**)\* Van Ek Award †  
2007 Joshua Stahl  
2007 Hannah Goodman (**SURE**)  
2006-2009 Amy Hua (**BURST, UROP**)\* †  
2006-2008 Marisa Marsolak (**BURST, UROP**)\* †  
2006-2007 Shannon Spanarella (**Honor's thesis (Magna Cum Laude)**)  
2006-summer Kimi Verilhac (**BURST**)  
2006-summer Eamon Quick (**SMART**, Brown University)\*  
2006 Michael Mestas (**Internship Sponsor**)  
2005-2008 Sheila Maier (**BURST**)\* †  
2005-2006 Kimberly Myers (**BURST**)  
Venessa McClure-Begley  
2004-2006 Alexander Lauderbaugh (**BURST**)\*  
2004-2005 Megan Canon (**BURST**)\*

University of Michigan, Ann Arbor, MI

2002-2003 Erik Ligas (**UROP**)  
Anish Banergee (**UROP**)  
Mohit Gupta (**UROP**)  
Mark Karadsheh (**UROP**)\* †‡  
M. Salman Shah (**UROP**)\* †  
Susanna Shamban (**UROP, Honor's Thesis**)  
2001-2002 Steve Bhandarker (**UROP**) §  
Casey Curtis (**UROP**) §  
Jennifer Remias (**UROP**)§

2000-2003 Brody Flanagan (**UROP**)\*†  
 2000-2002 Philip Saragoza (**UROP**)\*‡  
 2000-2001 Chuan Qin (**UROP**) \*†  
 Wendy Yau (**UROP**)\*  
 1999-2001 Nidhi Goel (**UROP**) \*†  
 1999 Hillary Peltier (**UROP**)

## **SUPERVISED TRAINEES (not primary advisor)**

University of Colorado, Boulder, CO

### ***Graduate Trainees***

2023-present Tel Kelley, comprehensive exam committee  
 2023-present Myra Bower, IBG advisory committee  
 2023-present Erika Mehrhoff, IBG Advisory Committee/ Comprehensive Exam Committee  
 2023-present Francesca Trane, Thesis Committee  
 2023-present Shelley Gresko, Comprehensive exam/thesis committee.  
 2021-present Katie Paulich, IBG Advisory Committee, Comprehensive Exam Committee  
 2021-present Andrew Lombardi, IBG/IPHY Advisory Committee, Comps committee.  
 2021-present Samantha Freis, Comprehensive Exam/Master's Thesis Committee  
 2021-2022 Chava Creque, Dissertation Proposal Committee, Thesis Committee  
 2020-2022 Jared Balbona, Comprehensive Exam Committee. Thesis committee.  
 2020-2021 Marko Melnick, PhD Thesis Committee  
 2020-2021 Ryan Milstead, Thesis advisory/comprehensive exam committee  
 2019-2021 Winona Booher, Thesis advisory/comprehensive exam committee  
 2018 Jarryd Butler, Master's Thesis  
 2018 Andrea Mariani, Master's Thesis Committee  
 2017-2020 Maia Fraser, PhD Thesis advisory/comprehensive exam committee  
 2017-2019 Spencer Huggett, PhD Thesis advisory/comps and thesis committees  
 2017-2019 Nicholas Haynes, Comprehensive exam and Thesis committees  
 2016-present Anne Miller, PhD Thesis advisory/comprehensive exam committee  
 2016-2017 Sam Dolzani, PhD Thesis advisory/comprehensive exam Committee  
 2013-2017 Sonya Belimezova, PhD Thesis advisory/comps and thesis committees  
 2015-2016 Carolyn Ardizzone, Thesis Committee (Master's degree).  
 2012-2016 Kristin Rasmus, PhD Thesis advisory/comps and thesis committees  
 2012-2015 Whitney Melroy, PhD Thesis advisory/comps and thesis committees  
 2011-2015 Stephanie Gritz (UCD), PhD Thesis advisory/comprehensive exam committee  
 2011-2014 Brian Cadle, PhD Thesis advisory/comprehensive exam committee  
 2009 Joseph Schacht, PhD Thesis committee  
 2008 Christian Westby, Comprehensive exam committee  
 2007 Anna Peters PhD Thesis advisory committee  
 2006-2008 Vyga Kaufmann PhD Thesis advisory committee  
 2006-2008 Isabel Schlaepfer PhD Thesis advisory committee/thesis committee  
 2006-2008 Tristin McClure-Begley PhD Co-advisor  
 2004-2008 Clarissa Parker PhD Thesis advisory committee/thesis committee

### ***Undergraduate Trainees (Honor's Thesis)***

2013 Drew Schreiner, Honor's Thesis committee member  
 2012 Sophia Levis, Honor's Thesis committee member

2010 Dana Jorgenson, Honor's Thesis Departmental Sponsor/Committee Member  
2007-2008 Stacy Romero, Honor's Thesis committee member  
2007-2008 Jessica Godfrey, Honor's Thesis committee member  
2006-2007 Kirstin Hesterberg Project consultant and Honor's Thesis Committee

University of Michigan, Ann Arbor, MI

2003 Gregory Collins PhD laboratory rotation  
2002-2003 Andrew Wong, Medical Student research project expert consultant  
2001-2003 Kathryn Chadman PhD Thesis Committee

**POST-DOCTORAL TRAINEES**

2021-present Rebecca Cox, PhD. Co-Mentor (primary mentor: Ken Wright)  
2020-present Hunter Mathews, PhD. Research Associate  
2020-2021 Kyle Ploense, Ph.D. Research Associate. Current Position: Head of Research and Chief Technology Officer, Cayuga Biotech.  
2015-2019 Heidi O'Neill, Ph.D. Research Associate. Current Position: Supervising Health Scientist, Cardno Chemrisk  
2015-2017 Cristian Zambrano, Ph.D.: Research Associate Current Position: Somalogic.  
2015-2016 Pete Dobelis, Ph.D. Research Associate. Deceased.  
2011-2014 Becky Helfand, PhD. Current Position: Director, Behavioral Health Program, Western Interstate Commission on Higher Education  
2011-2014 André Zalud, PhD. Current Position: Peace Corp Volunteer  
2009-2012 Cristian Zambrano, Ph.D. Research Associate  
2009-2012 Anne Tammamäki, PhD. Current position: Consultant, DRA Consulting, Vantaa, Finland  
2008-2010 Tom Precht, PhD. Current Position: Technical Sales Representative, STEMCELL Technologies, Vancouver, BC. Canada  
2005-2007 Sharon Mexal, PhD. Current position: Director of Clinical Operations, Ambry Genetics, Aliso Viejo, CA  
2002-2003 Xiao C. Li, PhD. Last known position: Scientist III, University of Mississippi Medical Center, Jackson, MS.

**HIGH SCHOOL STUDENTS**

2019-2022 Jocelyn Gunn  
2019 Aparajita Kaphle  
2018-2019 Hannah Kurz  
2016 Jake Brown  
2015 Olivia Coker  
2013-2014 Eli Rogers  
2009-2010 Achyata Shrestha  
2008-2009 Andrew Harrison and Kevin Wright  
2007-2008 Kristen Loyd  
2003 Meet Patel

**TRAINING GRANT FACULTY**

2021-present Research Training - Genetics of Substance Abuse (T32DA017637), **Jerry**

### **Stitzel, PI**

- 2020-present Transdisciplinary Training in Sleep and Circadian Rhythms (T32 HL149646), Kenneth Wright, PI
- 2017-2021 University of Colorado Interdisciplinary Training in Demography and Genetics (T32AG052371), Jason Boardman, PI
- 2008-2016 Behavioral Pharmacogenetics of Drug and Alcohol Abuse (T32AA007464), Paula Hoffman, PI
- 2004-present Research Training - Biological Sciences (T32MH016880), John Hewitt, PI
- 2004-2021 Research Training - Genetics of Substance Abuse (T32DA017637), John Hewitt, PI, **Jerry Stitzel** Co-Director.
- 2004-2014 Research Training - Developmental Behavioral Genetics (T32 HD007289), Michael Stallings, PI

## **SERVICE CONTRIBUTIONS**

### ***University/Regional***

#### University of Colorado, Boulder, CO

- 2021-present Member, IPHY Welfare Committee
- 2021 Member, Search Committee for IBG Director
- 2021-2022 Chair, IBG Search Committee for TTT Faculty hire
- 2021 PUEC, Marissa Ehringer Promotion to Professor
- 2021 Peer Teaching Evaluation, Amanda Schaezel
- 2020 PUEC for promotion and Tenure, Charles Hoeffler
- 2020 University Return to Research ad hoc committee, representative for animal research
- 2019 Panel discussant on the grant review process for Office of Contracts and Grants
- 2019 Member, University Search Committee for Director of OAR/Attending Veterinarian
- 2019 Peer teaching evaluation, Janet Casagrand
- 2018-2019 Co-Chair, IBG ARPAC Self-Study (Primary writer for Research and Scholarship, Enhancing Graduate Education, Space and Staffing and Assessment)
- 2018 Member, IPHY Infrastructure Workgroup for ARPAC Self-Study
- 2017-2022 Awards Committee, IPHY (Chair 2021-2022)
- 2017-present IACUC Alternate Representative, IBG (IBG primary representative Fall 2018)
- 2017-present Chair, IBG Graduate Training Committee
- 2017 Poster Judge, Front Range Neuroscience Meeting, 12/6/17
- 2016 Member, IBG Graduate Training Committee
- 2016 PUEC, Monique LeBourgeois
- 2016 Peer Teaching evaluation, Charles Hoeffler
- 2015-2021 Chair, IBG Research Space Committee
- 2015-2022 Member, IBG Salary Committee
- 2015 Peer Teaching Evaluation, Matt McQueen
- 2014 PUEC Member, Comprehensive Review for Chris Link
- 2013-2014 IACUC eRA Solutions Review Committee
- 2013-2014 Faculty Mentor, Faculty Student Mentorship Program
- 2013 Peer Teaching Evaluation, Janet Casagrand
- 2013 Searle Scholars Nomination Committee
- 2012-2013 Chair, IBG Faculty Search Sub-Committee, animal model candidates
- 2012-2013 Member, IBG Faculty Search Committee
- 2012 PUEC Member, Chris Lowry Promotion and Tenure Review

2011-2012 Co-Chair, IBG self-study  
 2011-2012 Chair, IBG self-study areas on diversity and research  
 2011 Member, IPHY self-study on diversity  
 2011 Reviewer, University of Colorado Innovative Seed Grant proposals  
 2011 PUEC Member, Christopher Lowry Comprehensive Review  
 2011 Peer teaching evaluation, Janet Casagrand  
 2010 Primary Faculty Reviewer, Janet Casagrand's Instructor Reappointment  
 2010 PUEC Member, Matthew McQueen Comprehensive Review  
 2010 Reviewer, University of Colorado Innovative Seed Grant proposals  
 2009 Primary Faculty Reviewer, Janet Casagrand's Instructor Reappointment  
 2009 Provided IPHY Departmental External Reviewer list for Marissa Ehringer's  
 Promotion and Tenure evaluation  
 2008 Member IBG Faculty Search Committee  
 2007 Invited participant: Postdoctoral Association of Colorado workshop on balancing  
 family and academic career  
 2006 Member, Graduate Task Force, Department of Integrative Physiology  
 2006 Reviewer UROP Summer Individual Grant Application  
 2005 Member, Committee on Diversity, Department of Integrative Physiology  
 2005 Reviewer, UROP Summer Individual Grant Application  
 2004-2017 Faculty Director of Animal Research, Institute for Behavioral Genetics  
 2004-present Building Proctor, Life Sciences Research Laboratory #4  
 2004-present IBG Representative, University of Colorado Radiation Safety Service Committee  
 2004-present IBG Representative, UCB Neuroscience Program Steering Committee  
 2004-2010 Member, IBG Research Space Committee

University of Michigan, Ann Arbor, MI

2000-2003 Member, University of Michigan Department of Pharmacology Advisory  
 Committee  
 1999-2003 Member, Operating Committee, University of Michigan Substance Abuse  
 Research Center

**National**

2023 External Reviewer, Christopher Richards, promotion to Professor, University of  
 Kentucky.  
 2023 External Reviewer, Camron Bryant, promotion to Professor, Northeastern  
 University.  
 2022 NIH-ZDA1 MXS-W (01) S Study section, ad hoc reviewer  
 2021 External reviewer, Paul Whiteaker Tenure Review, Virginia Commonwealth  
 University  
 2021 NIH-CSR-CVRS-H 50 R Study section, ad hoc reviewer  
 2020 NIH-CSR-CVRS-H 50 R Study section, ad hoc reviewer  
 2019 NIH CVRS-H 50 Study Section, ad hoc reviewer  
 2018 External Reviewer, Sarah McCallum promotion to Associate Professor, Albany  
 Medical College.  
 2018 NIH ZRG1 MDCN-R (04) M Study Section, ad hoc reviewer  
 2018 External Reviewer, Camron Bryant promotion to Associate Professor, Boston  
 University School of Medicine  
 2018 Abstract Reviewer, SRNT annual Meeting  
 2017 Abstract Reviewer, SRNT annual Meeting  
 2017 NIH ZDA1 SXT-P (05) Study Section, Ad Hoc Reviewer

2017 NIH ZRG1 BDCN-Q (2) Study Section, Ad Hoc Reviewer  
 2017 NIH ZDA1 SXT-P (06) Study Section, Ad Hoc Reviewer  
 2016- Consultant, 1U01DA041632: Gene Variants for Nicotine Withdrawal Deficits in Learning, Thomas Gould, PI.  
 2016 External Reviewer, Promotion and Tenure for Dr. Gustav Akk, Washington University School of Medicine, St. Louis, MO.  
 2016 NIH ZDA1 JXR-D(12) Study Section, Ad Hoc Reviewer  
 2016 NIH ZDA1 JXR-D(05) Study Section, Ad Hoc reviewer  
 2015 NIH ZDA1 HXO-H (05) Study Section, Ad Hoc reviewer  
 2015 NIH PMDA study section, Ad Hoc Reviewer  
 2014-2018 Basic Sciences advisory Committee, Society for Research on Nicotine and Tobacco  
 2014 NIH ZDA1 JXR-G (02) study section, Ad hoc reviewer  
 2013 Louisiana EPSCoR Seed grant proposal review  
 2013 NIH ZRG1 BDCN-A (02) M study section, Ad Hoc reviewer  
 2013 NIH MNPS study section, Ad Hoc reviewer  
 2013 NIH ZRG1 BDCN-A 40 P study section, Ad Hoc reviewer  
 2012-2014 Publications and Collaborations Committee (PACC), Collaborative Study on the Genetics of Nicotine Dependence, Laura Bierut, PI  
 2012 NIH ZRG1 BDCN-A 02 M study section, Ad Hoc reviewer  
 2012 NIH ZDA1 SXC-E 09 1 study section, Ad Hoc reviewer  
 2012 External Reviewer, Dr. Paul Whiteaker's promotion to Associate Professor (Barrow's Neurological Institute)  
 2011 Program Committee, 2012 Society for Research on Nicotine and Tobacco Annual Meeting  
 2010 Program Committee, 2011 Society for Research on Nicotine and Tobacco Annual Meeting  
 2009 Abstract Reviewer, Society for Research on Nicotine and Tobacco Annual Meeting  
 2008 External Reviewer, M. Imad Damaj promotion to Professor (Virginia Commonwealth University)  
 2007 Abstract Reviewer, Society for Research on Nicotine and Tobacco Annual Meeting  
 2006 Abstract Reviewer, Society for Research on Nicotine and Tobacco Annual Meeting  
 2005 Abstract Reviewer, Society for Research on Nicotine and Tobacco Annual Meeting  
 2002 NIH MCDN-5 (01) Ad Hoc Reviewer

### ***International***

2022 Promotion to Professor Review, Raad Nashmi, Univ. of Victoria, Victoria, B.C  
 2013 Promotion and Tenure Review, Raad Nashmi, Univ. of Victoria, Victoria, B.C.  
 2013 Ad Hoc Reviewer, Medical Research Counsel (United Kingdom) NMHB (DS)  
 2012 Ad Hoc Reviewer, Canada Foundation for Innovation  
 2011-2012 Program Committee Chair, 2012 International Behavioural and Neural Genetics Society Annual Meeting (Genes Brain and Behavior Annual Meeting)  
 2011-2012 Co-Host, 2012 International Behavioural and Neural Genetics Society Annual Meeting (Genes Brain and Behavior Annual Meeting)  
 2011 Ad Hoc Reviewer, Netherlands Organisation for Scientific Research  
 2010 Ad Hoc Reviewer, Wellcome Trust Grants Program

2004-2005 Ad Hoc Reviewer, Wellcome Trust Grants Program

***Reagents provided to international research community***

Ten different mouse nicotinic receptor clones that were isolated in Dr. Stitzel's laboratory have been freely distributed to well over 30 laboratories in the United States and abroad, including Austria, Belgium, Canada, France, Hungary, Switzerland and Tunisia. In addition, cell lines generated in Dr. Stitzel's laboratory that expresses mouse nicotinic receptors have been freely distributed to laboratories in California, France, The Netherlands and Brazil. A genetically engineered mouse strain generated through a funded NIH project to Dr. Stitzel has been distributed to laboratories in Oregon, California, New York, Wisconsin, France, and Italy.

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

2008-present International Behavioral and Neural Genetics Society  
2005-present Society for Research on Nicotine and Tobacco  
2001-2003 International Behavioral and Neural Genetics Society  
2000-2003 International Mammalian Genome Society  
1994-present Society for Neuroscience

**MANUSCRIPT REVIEWER (Ad hoc)**

2022 Frontiers in Cell and Developmental Biology  
Frontiers in Psychiatry  
Journal of Developmental Origins of Health and Disease  
Molecular Pain  
Nucleic Acids Research

2021 Biological Psychiatry  
European Journal of Neuropharmacology  
Genes, Brain and Behavior  
Neuropharmacology  
Psychopharmacology

2020 Behavioral Brain Research  
Brain Research  
Frontiers in Immunology  
Journal of Neurochemistry  
Neuropharmacology  
Scientific Reports

2019 Behavioral Brain Research  
Frontiers in Neuroanatomy  
Neuropharmacology  
Nicotine and Tobacco Research

2018 European Journal of Neuroscience  
Neuroscience Letters  
Nicotine and Tobacco Research  
Pharmacology Biochemistry and Behavior

2017 Behavioural Brain Research  
Current Neuropharmacology  
Neuroscience Letters

	Neuropharmacology
	Nicotine and Tobacco Research
	Psychopharmacology
2016	American Journal of Drug and Alcohol Abuse
	Mutation Research
	Neuropharmacology
	Nicotine and Tobacco Research
2015	Pharmacogenomics
	Neuropharmacology
	British Journal of Pharmacology
	Psychopharmacology
	Biochemical Pharmacology
	Neuropsychopharmacology and BioPsychiatry
	Nicotine and Tobacco Research
	Nucleic Acids Research
2014	Addiction Biology
	BMC Neuroscience
	Experimental Lung Research
	Neuropharmacology
	Psychopharmacology
2013	Genes Brain and Behavior
	Biological Psychiatry
	PlosOne
	Pharmacology Biochemistry and Behavior
2012	Behavior Genetics
	Biological Psychiatry
	Journal of Neuroscience
	Neurobiology of Learning and Memory
	Neuropsychopharmacology
2011	Behavioral Genetics
	Journal of Psychopharmacology
	Neuropharmacology
	Nicotine and Tobacco Research
	Psychopharmacology
2010	Genes, Brain and Behavior
	Neuropsychopharmacology
	Nicotine and Tobacco Research
	Progress in Neurobiology
2009	Alcoholism, Clinical and Experimental Research
	Brain Research
	Human Mutation Research
	Neuropsychopharmacology
	Nucleic Acids Research
	Pharmacogenomics Journal
2008	Behavioural Brain Research
	Behavioral Neuroscience
	Biological Psychiatry
	Mammalian Genome
	Neuropsychopharmacology
2007	Brain Research

Proteomics  
J. Neuroscience  
Neurobiology of Learning and Memory  
Neuropsychopharmacology  
2006 J. Neurochemistry  
Neuropsychopharmacology  
2005 Physiological Genomics  
Genes Brain & Behavior  
J. Biological Chemistry  
J. Neuroscience  
Neuroscience Letters  
Nicotine & Tobacco Research  
2004 American J. Medical Genetics  
Genes Brain & Behavior  
2002 Neuroscience Letters  
2001 Journal Neurochemistry  
Life Sciences