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CURRICULUM VITAE

JERRY ALAN STITZEL, Ph.D.

PERSONAL INFORMATION

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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 # AAAW060-1554 (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

GRANTS (P.I. OR CO-I.): ACTIVE, PENDING, AND COMPLETED		
Active		
Title and Source	***Period***	***Total Award***
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. **Role: Co-I of subcontract (Matt Keller, PI). Responsible for functional characterization of rare variants.**	5/19-3/25	$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) **MPI (Marissa Ehringer, Charles Hoeffer, Jerry Stitzel)**	R21: 9/22-8/24 R33: 9/24-8-27	$1,512,463
Multi-generation impact of developmental nicotine exposure on mitochondrial function AB Nexus **MPI (Jerry Stitzel, Manisha Patel)**	6/1/23-12/31/24	$50,000
Pending		
Integrative approaches to discover and dissect smoking and drinking associated genes. NIH 1 R01 DA059243 (Liu, Vrieze). **Role: PI of subcontract.**	7/23-6/28	$2,492,225 (DC)
Completed		
Genetic modifiers of Chrna5 deletion in mice: role in nicotine behaviors modulated by the medial habenula-IPN pathway. NIH U01DA043802 **Lead Principal Investigator (MPI with Richard Radcliffe)**	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 **Lead Principal Investigator (MPI with Richard Radcliffe)**	1/19-12/22	$262,785
Nicotine consumption QTL: Fine mapping, selective breeding and sequencing NIH 1UH2/UH3 DA040142 Lead Principal Investigator (MPI with Richard Radcliffe)	2015-2020	$1,155,327
Role of Chrna5 genotype on outcomes of developmental nicotine exposure. 1R21 DA040228, NIH **Principal Investigator**	2015-2018	$416,330

Molecular pathology of cholinergic neurodegeneration in Ts65Dn mice, Linda Crnic Institute **Principal Investigator**	2015-2018	$99,804
Analysis of alpha4 nicotinic receptors using viral re-expression in alpha4 KO mice. 1 R21 DA036673, NIH **Principal Investigator**	2015-2017	$419,375
Translational Studies of Nicotinic Receptor Genes: Alcohol and Nicotine R01 AA017889, NIH Marissa Ehringer, PI **Co-Investigator**	2009-2016	$2,813,974
Screening for alpha5 nicotinic receptor positive allosteric modulators, Pfizer, Inc. **Principal Investigator**	2014-2015	$53,854
Studies with Nicotinic Null Mutant Mice P30 DA015663-10S1, NIH **Principal Investigator** (as of 2014)	2008-2015	
Collaborative Genetic Study of Nicotine Dependence P01 CA089392, NIH Program Project, Laura Bierut, Principal Investigator. **Principal Investigator of Project 3**: 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 **Principal Investigator, Project 4:** 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 **Principal Investigator**	2009-2011	$921,721
Nicotinic receptor genes & substance abuse: Functional studies of associated SNPs R21, NIH **Principal Investigator** (Multiple PI with Marissa Ehringer)	2009-2011	$876,704
Circadian Variation in Nicotine Sensitivity in Mice R21 DA022462, NIH **Principal Investigator**	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 **Sponsor**	2007-2009	$60,676
Molecular Neurobiology of Schizophrenia P50 MH068582, NIH Conte Center, Robert Freedman, Principal Investigator **Principal Investigator of Animal Core**	2004-2009	$569,993 (Animal Core)
Identification of Functional nAChR Variants in Mice	2001-2007	$879,600

R01 DA014369, NIH **Principal Investigator**		
Genetic Analysis of Nicotine Preference in Mice. RSG-01-139-01-CNE, American Cancer Society, **Principal Investigator**	2001-2006	$858,068
Nicotinic Receptor Variability and Alcohol Sensitivity in Mice. Alcoholic Beverage Medical Research Foundation, **Principal Investigator**	2001-2003	$78,666
Response to Nicotine: Molecular Studies of Murine nAChRs P01 DA10156, NIH Program Project, Allan Collins, Principal Investigator **Co-Investigator on Project 1**: nAChR 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.

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. 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. Neurophsychophrmacology

3. Ehringer MA, Hoeffer CA, and **Stitzel JA**. Bioinformatics and Genomics Tools to Identify and Advance Characterization of Functional Variants in a Post-GWAS Era. Molec. Psychiatry

4. Lombardi AM, Wong H, Bower M, Milstead R, Borski C, Schmitt E, LaPlante L, Ehringer MA, **Stitzel JA**, and Hoeffer CA. AKT2 modulates astrocytic nicotine responses in vivo

Manuscripts Published or In Press

1. Akinola L, Gonzales J, Buzzi B, Mathews HL, Papke RL, **Stitzel JA**, Damaj MI. 2024. Investigating the Role of Nicotinic Acetylcholine Receptors in Menthol's Effects in Mice. Drug and Alcohol Dependence. 257:111262. doi:10.1016/j.drugalcdep.2024.111262

2. Evans LM, Arehart CH, Grotzinger AD, Mize TJ, Brasher MS, **Stitzel JA**, Ehringer MA, Hoeffer 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.

3. 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.

4. 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.

5. Quijano Cardé NA, Shaw J, Carter C, Kim S, **Stitzel JA**, Venkatesh SK, Ramchandani VA and De Biasi M. 2022. Mutation of the α5 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.

6. Wong H, Buck JM, Borski C, Pafford JT, Keller BN, Milstead RA, Hanson JL, **Stitzel JA** and Hoeffer 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

7. 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

8. 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

9. 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/fpsyt.2021.773400

10. 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/ioab138

11. 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

12. Evans LM, Johnson EC, Melroy-Grief WE, Hewitt JK, Hoeffer 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.

13. 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.

14. 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

15. 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. Neuropharmacology149:66-82

16. 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

17. Mathews HL and **Stitzel JA**. 2019. A Mouse Model of Sleep Disturbances During Nicotine Administration and Withdrawal. Psychopharmacol. 236:1335-1347.

18. Zambrano CA, *Escobar D, *Ramos-Santiago T, Bollinger I and **Stitzel J**. 2019. Serine residues in the α4 nicotinic acetylcholine receptor subunit regulate surface α4β2* receptor expression and cluster. Biochem. Pharmacol.159:64-73

19. 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.

20. 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

21. Olfson E, Bloom J, Bertelsen S, Budde JP, BreslauN, 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

22. 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.

23. Koukouli F, Rooy M, Tziotis D, Sailor K, O'Neill HC, Levenga J, Nilges M, Changeux JP, Hoeffer 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

24. 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.

25. 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.

26. Kamens HM, Miyamoto J, Powers MS, Ro K, Soto M, Cox R, **Stitzel JA**, & Ehringer MA. 2015. The β3 subunit of the nicotinic acetylcholine receptor: modulation of gene expression and nicotine consumption. Neuropharmacology 99:639-49.

27. Hancock DB, Wang JC, Gaddis NC, Saccone NL, **Stitzel JA**, Goate A, Bieurt LJ, and Johnson EO. 2015. A multiancestry study identifies novel genetic associations with CHRNA5 methylation in human brain and risk of nicotine dependence. Human Molec. Genetics 24:5940-54.

28. Sciaccaluga M, Moriconi C, Martinello K, Catalano M, Bermudez I, **Stitzel JA**, Maskos U, Fucile S. 2015. Crucial role of nicotinic α5 subunit variants for Ca^{2+} fluxes in ventral midbrain neurons. FASEB J. 29:3389-98

29. Stevens KE, Zheng L, Floyd KL and **Stitzel JA**. 2015. Maximizing the effect of an α7 nicotinic receptor PAM in a mouse model of schizophrenia-like sensory inhibition deficits. Brain Res. 1611:8-17.

30. 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

31. 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.

32. 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.

33. Stevens KE, Choo CS, **Stitzel JA**, Marks MJ, Adams CE 2014. Long-term improvements in sensory inhibition with gestational choline supplementation linked to α7 nicotinic receptors through studies in Chrna7 null mutation mice. *Brain Res*. 1552:26-33.

34. 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

35. Gallego X, Cox RJ, Laughlin JR, **Stitzel JA**, Ehringer, MA. 2013. Alternative CHRNB4 3'-UTRs Mediate the Allelic Effects of SNP rs1948 on Gene Expression. PLoS One. May 14; 8(5):e63699.

36. Hartz SM et al. 2012. Increased genetic vulnerability to smoking at *CHRNA5* in early-onset smokers. *Arch. Gen. Pyschiatry 69:854-60*

37. 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 α3β4α5 nicotinic acetylcholine receptors. Neuropharmacology 63:1002-11

38. 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

39. 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

40. 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.

41. 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 CHRNB4 are associated with reduced risk of nicotine dependence. Hum Mol Genet. 21:647-55

42. Tammimäki A, Horton WJ, **Stitzel JA**. 2011. Recent advances in gene manipulation and nicotinic acetylcholine receptor biology. *Biochem Pharmacol*. 82:808-19

43. Culverhouse RC, Saccone NL, **Stitzel JA**, Wang JC, Steinbach JH, Goate AM, An TH, Grucza 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.

44. Hoft NR, **Stitzel JA**, Hutchison KE, and Ehringer MA. 2011. CHRNB2 Promoter Region: Association with subjective effects to nicotine and gene expression differences. *Genes Brain and Behavior* 10:176-85.

45. 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

46. 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

47. Ehringer MA, McQueen MB, Hoft NR, Saccone N, **Stitzel JA**, Wang JC, Bierut LJ. 2010. Association of CHRN genes with “dizziness” to tobacco. *Neuropsychiatric Genetics153B:600-609*

48. Wang JC, Cruchaga C, Saccone NL, Bertelsen S, Liu P, Budde JP, Duan W, Fox L, Grucza 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

49. 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.

50. McClure-Begley TD, King NM, Collins AC, **Stitzel JA**, Wehner JM, Butt CM. 2009. Acetylcholine-Stimulated [^{3}H]GABA Release from Mouse Brain Synaptosomes is Modulated by α4β2 and α4α5β2 Nicotinic Receptor Subtypes. *J. Neurochem*. 75:918-26

51. 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.

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Tischfield JA, Edenberg HJ, Rice JP, Goete AM. 2008. Variants in nicotinic receptors and risk for nicotine dependence. *Am J Psychiatry.* 165:1163-71

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61. 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

62. 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

63. Azam L, Dowell C, Watkins M, **Stitzel JA**, Olivera BM, McIntosh JM. 2005. Alpha-conotoxin BuIA, a novel peptide from Conus bullatus, distinguishes among neuronal nicotinic acetylcholine receptors. *J. Biol. Chem.* 280:80-7

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66. Cui C, Booker TK, Allen RS, Grady SR, Whiteaker P, Marks MJ, Salminen O, Tritto T, Butt CM, Allen WR, **Stitzel JA**, McIntosh JM, Boulter J, Collins AC, Heinemann SF. 2003. The beta3 nicotinic receptor subunit: a component of alpha-conotoxin MII-binding

nicotinic acetylcholine receptors that modulate dopamine release and related behaviors. *J. Neurosci.* 23:11045-53

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55. 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 $GABA_B$ receptors. Program No. 34.15. Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

56. Dash B, Bhakta M, Whiteaker P, **Stitzel J**, Chang Y and Lukas R. Gain of function mutants in human or mouse nAChR β3 subunits interchangeably activate either human or mouse α6β4*-nAChR but not human or mouse α6β2*-nAChR. Program No. 34.7. Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

57. **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.

58. Wilking JA, Hesterberg KG, and **Stitzel JA**. Interaction of Chrna4 T529A polymorphism with S530 modulates α4β2 nAChR expression. Program No. 233.14. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2008.

59. 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.

60. Hoft N, Miyamoto J, **Stitzel J**, and Ehringer M. Single nucleotide variations upstream of CHRNB3 affect reporter gene expression. Am Soc. Human Genetics Annual Meeting, 2008.

61. 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.

62. 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.

63. 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.

64. **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.

65. Drapeau JA, Horton WH, **Stitzel JA.** Molecular mechanism of CDK5 modulation on mouse α4β2 nicotinic acetylcholine receptor function Program No. 325.4 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006.

66. 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.

67. **Stitzel JA**, Brooks JC, *Karadsheh MS, *Flanagan BA, Horton WJ, Butt CM. Modulation of α4β2 nicotinic acetylcholine receptors by CDK5 Program No. 722.6. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2005.

68. Drapeau JA, Livingstone PD, Brooks JC, **Stitzel JA** Pharmacological characterization of mouse α6β3βx 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.

69. **Stitzel JA**, *Karadsheh MS, *Shah MS, Tang X, Macdonald RL. Functional characterization of mouse α4β2 nicotinic acetylcholine receptors stably expressed in HEK293T cells. Program No. 275.4. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004.

70. Adams CE, Yonchek JC, **Stitzel JA.** Development of the α7 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.

71. Dowell CD, Azam L, Watkins M, **Stitzel JA**, Olivera BM, McIntosh JM. α-conotoxin buia from *conus bullatus* distinguishes between β2- and β4-containing nicotinic acetylcholine receptors Program No. 956.3. Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004.

72. **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.

73. **Stitzel JA,** Kim H, *Flanagin BA, and Macdonald RL. The mouse Chrna4 A529T polymorphism alters the affinity isotherm ratio of α4β2 nAChRs. Society for Neuroscience Annual Meeting program number 537.16 2002.

74. de Fiebre CM, Martin SE, de Fiebre NC, and **Stitzel JA**. Isoforms of nicotinic alpha4 subunits: responses to nicotinic agonists and implications for ethanol. Research Society on Alcoholism Annual Meeting, 2002.

75. *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.

76. Adams CE, **Stitzel JA**, Collins AC, and Freedman R. α7 Nicotinic Receptor Expression and the Anatomical Organization of Hippocampal Interneurons. Society for Neuroscience Abstracts 27:145.3. 2001.

77. Stevens KE, **Stitzel JA**, Jimenez M, Collins AC. Transferring the α7 Nicotinic Receptor between Different Mouse Backgrounds Alters Auditory Gating. Society for Neuroscience Abstracts 27:145.4. 2001.

78. **Stitzel JA**, Modir JG, *Goel N, *Saragoza PA, Collins AC. Identification of an alternatively processed nAChR α7 subunit RNA in mouse brain. Society for Neuroscience Abstracts 26:pg 2000.

79. **Stitzel JA**, Jimenez MA, Dobelis P, Whiteaker P, Marks MJ and Collins AC. nAChR α4 Subunit Variants in Mice. Neuronal Nicotinic Receptors: The 10th Neuropharmacology Conference. 2000.

80. de Fiebre CM, de Fiebre NC, **Stitzel JA**. Unusual Isoforms of nAChR α4 Subunits Respond Differentially to Acetylcholine. Neuronal Nicotinic Receptors: The 10th Neuropharmacology Conference. 2000.

81. Tritto T, **Stitzel JA**, Jimenez MA, Collins BA, Paylor R and Collins AC. α7 nicotinic receptor modulation of acoustic startle and prepulse inhibition of startle. Neuronal Nicotinic Receptors: The 10th Neuropharmacology Conference. 2000.

82. 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.

83. **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.

84. **Stitzel JA**, Lu Y, Jimenez M, and Collins AC. Potential Role of α4 and α7 nAChR Subunits in Regulating Nicotine-Induced Seizures. Society for Neuroscience Abstracts, 25: p12. 1999.

85. **Stitzel JA**, Kogan JH, Silva AJ, and Collins AC. Nicotine Sensitivity and Nicotinic Receptor Levels in CREB$^{\alpha-\Delta}$ Null Mutant Mice. Society for Neuroscience Abstracts, 24: p836. 1998.

86. **Stitzel JA,** Brooks NP, and Collins AC. Influence of nAChR α7 Subunit Genotype on Levels of α7 RNA and α-Bungarotoxin Binding in Brain: An Autoradiographic Analysis. Society for Neuroscience Abstracts Volume 23, 1997.

87. Skiles KS, **Stitzel JA,** Cao J, Blanchette JM, and Collins AC. Comparison of Strain-Specific nAChR Subunit Loci and Nicotine Oral Preference. Society for Neuroscience Abstracts, Volume 23, 1997.

88. 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.

89. 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.

90. **Stitzel JA,** Blanchette JM, and Collins AC. Association between Strain-Specific α5 and α7 Nicotinic Receptor Subunit Loci and Sensitivity to the High Dose Effects of Nicotine. Society for Neuroscience Abstracts, Volume 22, 1996.

91. Collins AC, Grady SR, Booker TK, Robinson SF, Bullock AE, **Stitzel JA,** Clark AL, and Marks MJ. Differential Effects of Chronic Nicotine Treatment on Nicotine-Stimulated Rubidium Efflux in Various Mouse Brain Areas. Society for Neuroscience Abstracts, Volume 22, 1996.

92. **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.

93. **Stitzel JA,** Farnham DA, and Collins AC. The relationship between α7 Genotype and α-BTX Levels is Likely Due to Variation in Non-Coding Portions of α7. Society for Neuroscience Abstracts, Volume 21, 1995.

94. **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 [^{125}I]-α-Bungarotoxin Binding. Abstract. International Symposium on Nicotine: The effects of Nicotine on Biological Systems II. 1994.

95. 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.

96. 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.

97. Marks MJ, **Stitzel JA,** Campbell SM, and Collins AC. Disulphide modification of nicotinic binding sites in mouse brain. Federation Proceedings 46: 856. 1987.

98. Collins AC, **Stitzel JA**, and Marks MJ. Nicotine tolerance and receptors following pulse infusion of nicotine. The Pharmacologist 28: 236. 1986.

99. 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 Environement Association Studies (GENEVA) Steering Committee Meeting. 2010

The effect of *chrna5* delection 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 α7 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

2024	IPHY 4200-001, Physiological Genetics and Genomics. Professor, 8 students
	IPHY 5200-010, Physiological Genetics and Genomics, Professor, 7 students
	PSYC 5200-010, Physiological Genetics and Genomics, Professor, 2 students
	PSYC 7102-801, Seminar: Method in Behavioral Genetics, led 2 lectures and 2 labs on CRISPR/Cas9 methodology
	GRAD 5000, Responsible Conduct in Research. Discussant on the use of animals in research
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. Recitiation: Physiological Genetics and Genomics (Spring). Professor, 5 students.

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

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. Recitiation: 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. Recitiation: 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. Recitiation: 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 Kńees

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 α4β2 nicotinic receptor function by calcineurin and protein kinase C”. PhD Advisor.

2006-2008 Sheila Maier. “Role of melatonin in regulating diaurnal 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 α5 nicotinic receptor subunit: Role in receptor function and sensitivity to nicotine. PhD advisor.

2005 Christopher Duffy. “Expression of the α5 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 α3, α5 and β4 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

2024- Unmit Trevedi
2023- Andreas Vassaux*
2023-2024 Jordan Roberts
2023-2024 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 Nguyen
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 Averi 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 Langley
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 Kńees (**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 Muruganantham (**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

2024-present Ana Howard, IBG Advisory Committee
2023-present Tel Kelley, comprehensive exam committee
2023-present Myra Bower, IBG advisory committee/ Comprehensive Exam Committee
2023-present Erika Mehrhoff, IBG Advisory Committee/ Comprehensive Exam Committee
2023-present Francesca Trane, Thesis Committee
2021-present Andrew Lombardi, IBG/IPHY Advisory Committee, Comps committee.
2022-present Eamonn Duffy, Comprehensive Exam/thesis committee
2023-2024 Shelley Gresko, Comprehensive exam/thesis committee.
2021-2024 Katie Paulich, IBG Advisory Committee, Comprehensive Exam Committee
2021-2024 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

<u>University of Michigan, Ann Arbor, MI</u>

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

2021-2024 Rebecca Cox, PhD. Co-Mentor (primary mentor: Ken Wright)
2020-2024 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

2024 PUEC Chair, Leif Saul promotion to Teaching Professor
2024 Peer Teaching Evaluation, Tammy Maldonado
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 Schaetzel
2020 PUEC for promotion and Tenure, Charles Hoeffer
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 Hoeffer
2015-2021 Chair, IBG Research Space Committee
2015-present 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
2004-2024 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
2016-2022 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
2019-present Associate Editor, Behavior Genetics
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)

2024	Behavior Genetics
	Genes Brain and Behavior
	Nicotine and Tobacco Research
2023	Communications Biology
	Frontiers in Neuroscience
	Genes Brain and Behavior
	Nicotine and Tobacco Research
	Pharmacological Research
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 Neuropharmacolgy
	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
	Pharmacogenomics
2015	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
	Physiological Genomics
2005	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