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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
2010	Published research article by graduate student Jennifer Wilking highlighted on the Society for Research on Nicotine and Tobacco Web site front page.
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***
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)**	4/18-12/22	$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
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.**	5/19-2/24	$3,207,683 Sub: $1,615,732
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
Pending		
Translational Center on the Genetics of Nicotine Dependence. NIH P50 DA048754. Marissa Ehringer, John Hewitt MPIs. **Role: Lead PI of project 2 (Richard Radcliffe, MPI): Genomics and Transcriptomic in mouse and PI of project 3: Target gene behavior in mice**.	7/1/20-6/30/25	$15,397,000 P2: $1,861,239 P3: $2,497,923
Translational career development: Training a statistical geneticist to link statistical significance to biology and function in nicotine addiction genetics. NIH K01 DA050152. Luke Evans, PI. **Role: Co-Mentor responsible for training Dr. Evans in mouse genetic methods**	12/1/19-11/30/24	$913,089

Completed		
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	2007-2009	$60,676

F31 DA024515, NIH NRSA Pre-Doctoral Fellowship to Jennifer Wilking **Sponsor**		
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 R01 DA014369, NIH **Principal Investigator**	2001-2007	$879,600
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. Tammimäki AE, Herder* PA, Horton WJ, Grimshaw V, Helfand RS and **Stitzel JA**. Role of α5* nicotinic acetylcholine receptors in oral nicotine intake and tolerance development to nicotine.
2. Buck JM, O'Neill HC and **Stitzel JA**. Role of the Chrna5 D398N variant of ADHD-like outcomes of developmental nicotine exposure.
3. **Stitzel JA**, Meyers E, Werner Z, and Radcliffe RA. The use of B6 x A/J chromosome substitution strains to identify genetic modifiers of nicotine consumption in *Chrna5* null mutant mice.
4. **Radcliffe RA,** O'Neill H, Werner Z, Meyers E and **Stitzel JA**. Identification of QTL for oral nicotine intake in HS/Npt mice.

Manuscripts under Review

1. Routhier J,, Maouche K, Pons S, Freidja ML, Dalstein V, Cutrona J, Jonquet A, Mérol J-C, Dormoy V, Lathrop M, **Stitzel JA**, Kervoaze G, Pichavant M, Gosset P, Tournier JM,

Birembaut P and Maskos U. An innate contribution of human nicotinic receptor polymorphisms to Chronic Obstructive Pulmonary Disease-like pathology. Science Translational Medicine.

2. Wong H, Buck JM, **Stitzel JA** and Hoeffer CA. RCAN1 knockout and overexpression recapitulate an ensemble of rest-activity and circadian disruptions characteristic of Down syndrome, Alzheimer's disease, and normative aging

Manuscripts Published or In Press

1. Evans LM, Johnson EC, Melroy-Grief WE, Hewitt JK, Hoeffer CA, Keller MC, Saba LM, **Stitzel JA**, Ehringer MA. In Press. The role of a priori-identified addiction and smoking gene sets in smoking behaviors. Nicotine and Tobacco Research. Nicotine Tob Res. 2020 Jan 13. doi: 10.1093/ntr/ntaa006

2. 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.

3. 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

4. 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

5. 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

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

7. 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

8. 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.

9. 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

10. 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

11. 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.

12. 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

13. 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.

14. 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.

15. 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.

16. 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.

17. 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

18. 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.

19. 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

20. 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.

21. 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.

22. 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.

23. 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

24. 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.

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

26. 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

27. 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

28. 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

29. 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.

30. 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

31. Tammimäki A, Horton WJ, **Stitzel JA**. 2011. Recent advances in gene manipulation and

nicotinic acetylcholine receptor biology. *Biochem Pharmacol*. 82:808-19

32. 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.

33. 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.

34. 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

35. 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

36. 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*

37. 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

38. 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.

39. 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

40. 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.

41. Grucza 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

42. Bierut LJ, **Stitzel JA**, Wang JC, Hinrichs AL, Grucza 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, Goete AM. 2008. Variants in nicotinic receptors and risk for nicotine dependence. *Am J Psychiatry.* 165:1163-71

43. 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.

44. **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

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46. 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

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48. 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

49. 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

50. 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

51. 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

52. 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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60. Tritto T, **Stitzel JA**, Marks MJ, Romm E, Collins AC. 2002. Variability in response to nicotine in the LSxSS RI strains: potential role of polymorphisms in alpha4 and alpha6 nicotinic receptor genes. *Pharmacogenetics* 12:197-208

61. Adams CE, **Stitzel JA**, Collins AC, Freedman R. 2001. Alpha7-nicotinic receptor expression and the anatomical organization of hippocampal interneurons. *Brain Res.* 922:180-90

62. Tritto T, Marley RJ, Bastidas D, **Stitzel JA**, Collins AC. 2001. Potential regulation of nicotine and ethanol actions by alpha4-containing nicotinic receptors. *Alcohol* 24:69-78

63. **Stitzel JA**, Dobelis P, Jimenez M, Collins AC. 2001. Long sleep and short sleep mice differ in nicotine-stimulated 86Rb+ efflux and alpha4 nicotinic receptor subunit cDNA sequence. *Pharmacogenetics* 11:331-9

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65. **Stitzel JA**, Lu Y, Jimenez M, Tritto T, Collins AC. 2000. Genetic and pharmacological strategies identify a behavioral function of neuronal nicotinic receptors. *Behav. Brain Res.* 113:57-64

66. **Stitzel JA**, Jimenez M, Marks MJ, Tritto T, Collins AC. 2000. Potential role of the alpha4 and alpha6 nicotinic receptor subunits in regulating nicotine-induced seizures. *J. Pharmacol. Exp. Ther.* 293:67-74

67. Marks MJ, Whiteaker P, Calcaterra J, **Stitzel JA**, Bullock AE, Grady SR, Picciotto MR, Changeux JP, Collins AC. 1999. Two pharmacologically distinct components of nicotinic receptor-mediated rubidium efflux in mouse brain require the beta2 subunit. *J. Pharmacol. Exp. Ther.* 289:1090-103

68. **Stitzel JA**, Blanchette JM, Collins AC. 1998. Sensitivity to the seizure-inducing effects of nicotine is associated with strain-specific variants of the alpha 5 and alpha 7 nicotinic receptor subunit genes. *J. Pharmacol. Exp. Ther.* 284:1104-11

69. **Stitzel JA**, Farnham DA, Collins AC. 1996. Linkage of strain-specific nicotinic receptor alpha 7 subunit restriction fragment length polymorphisms with levels of alpha-bungarotoxin binding in brain. *Brain Res. Mol. Brain Res.* 43:30-40

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71. Marks MJ, **Stitzel JA**, Collins AC. 1989. Genetic influences on nicotine responses. *Pharmacol. Biochem. Behav.* 33:667-78

72. Pauly JR, **Stitzel JA**, Marks MJ, Collins AC. 1989. An autoradiographic analysis of cholinergic receptors in mouse brain. *Brain Res. Bull.* 22:453-9

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74. 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.

75. 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.

76. 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.

77. **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.

78. 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.

79. **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.

80. **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.

81. **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.

82. 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.

83. 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.

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

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

86. 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

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

2020-present Julia Potocnjak-Overn, PhD advisor

2017-2019 Amanda Alvarado, MS advisor

2016-2020 Jordan Buck. PhD advisor

2014-2020 Hunter Mathews. PhD Advisor

2011-2016 Coral Cabrera. PhD Advisor

2011 Lauren Ljunghag, BA/MS Advisor

2009-2013 William Horton. PhD Advisor.

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 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

2020- Maxim Kondratenko
2020- Lydia Walker
2020- Hunter Schreiner
2020- Julia Fontana
2020- Amelia Beck
2019- Joslynn Jones*
2019- Dave Wichman
2019- Morgan Brown
2019- Sam Allsup
2019- Brooke Brounstein
2019- Abigail Noonan
2019- Emily Miller
2019-summer Sango Kasongo (**SMART**, The Ohio State University)
2019 Amey Srivastava
2019 Sean Pierce
2018- Audrey Lynn
2018-2019 Hunter Dagnon
2018-2019 Alec Haukness
2018-2019 Tyler Nguyen
2018-summer Ivette Gonzalez (**SMART**, San Diego State University)

2017- 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

2020	Marko Melnick, PhD Thesis Committee
2020-present	Jared Balbona, Comprehensive Exam Committee
2020-present	Ryan Milstead, Thesis advisory/comprehensive exam committee
2019-present	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

2015-2019	Heidi O'Neill, Ph.D. Research Associate.
2015-2017	Cristian Zambrano, Ph.D. Current Position: Research Associate, Chris Lowry Laboratory, University of Colorado Boulder

2015-2016 Pete Dobelis, Ph.D. Research Associate. Current Position: Assistant Teaching Professor, University of Denver.
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. Current Position: Research Associate, Chris Lowry Laboratory, University of Colorado Boulder
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- 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

2020-present Transdisciplinary Training in Sleep and Circadian Rhythms (T32 HL149646), Kenneth Wright, PI
2017-present 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-present 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
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
2017-2020	Awards Committee, IPHY
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-present	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-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

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

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)

2020
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