

**ROHAN H. C. PALMER, PH.D.****UNIVERSITY ADDRESS**

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**CURRENT POSITIONS & AFFILIATIONS**

04/2019 – Present	Affiliate Faculty, Graduate Division of Biological and Biomedical Sciences, Emory University
01/2017 – Present	Affiliate Faculty, Neuroscience and Behavioral Biology Program, Emory University
01/2017 – Present	Training Faculty, Mechanisms of Learning, Emory University
01/2017 – Present	Faculty, Fellowships in Research and Science Teaching (FIRST)
09/2016 – Present	Assistant Professor, Department of Psychology, Emory University
06/2011 – Present	Research Assistant, Molecular Genotyping Lab at the Providence VA Medical Center. Providence RI

**ACADEMIC APPOINTMENTS**

09/2016 – Present	Assistant Professor, Department of Psychology, Emory University
09/2012 – 08/2016	Assistant Professor (Research), Department of Psychiatry and Human Behavior, Alpert Medical School of Brown University, Providence, RI.
12/2013 – 05/2014	Adjunct Professor, Department of Biology, William Paterson University, Wayne, NJ.

**HOSPITAL APPOINTMENTS**

08/2012 – 08/2016	Research Associate (II), Department of Child and Adolescent Psychiatry, Rhode Island Hospital.
06/2012 – 08/2012	Research Associate (I), Department of Child and Adolescent Psychiatry, Rhode Island Hospital.
06/2010 – 05/2012	Psychology Fellow, Department of Psychiatry, Rhode Island Hospital.

**EDUCATION & TRAINING**

2010-2012	Postdoc	Department of Psychiatry and Human Behavior
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			(Brown University) and Rhode Island Hospital, Providence, RI. T32 Postdoctoral Research Fellow. (Advisor: Valerie S. Knopik, Ph.D.)
2010	Ph.D.	Psychology	University of Colorado at Boulder, CO (Advisor: John K. Hewitt, Ph.D.)
2009	M.A.	Psychology	University of Colorado at Boulder, CO (Advisor: John K. Hewitt, Ph.D.)
2005	B.S. Honors	Biology Biopsychology	William Paterson University, Wayne, NJ William Paterson University, Wayne, NJ (Advisor: Martin E. Hahn, Ph.D.)
2001	A.S.	Biology/Pre-Med	Essex County College, Newark, NJ

## **HONORS AND AWARDS**

- 2018 Research Society on Alcoholism Symposium Award – Title: “Cross Species Data Integration for Characterization, Prediction, and Treatment of Alcohol Use Disorders”.
- 2016 3rd Place Winner – 3rd Annual Abstract Challenge (Golden Helix)
- 2015 APS Rising Star, Association for Psychological Science
- 2015 XXIII<sup>RD</sup> World Congress on Psychiatric Genetics Hugh Gurling, ECIP, and oral presentation awards finalist scorer.
- 2015 Brown University Office of Diversity and Multicultural Affairs Travel Award to attend the Association of American Medical Colleges Minority Faculty Career Development Seminar
- 2015 – 2018 Elected Executive Committee Member of the Behavior Genetics Association (member-at-large)
- 2015 – 2017 National Institute of Health Loan Repayment Program, NCATS, Title: Identifying Shared and Non-Shared Genetic Influences on Alcohol and Drug Dependence in Subjects of European and African Ancestry
- 2014 Travel Award, International Society for Biomedical Research on Alcoholism
- 2014 Carl Storm Underrepresented Minority (CSURM) Fellowship: Alcohol & the Nervous System GRC
- 2013 – 2015 National Institute of Health Loan Repayment Program, NCATS, Title: The Relationship between Executive Function, Substance Misuse, and Disinhibitory Psychopathology in Children Differentially Exposed to Tobacco in utero’ (Grant number: L30 TR001045)
- 2011 – 2013 National Institute of Health Loan Repayment Program, NIDA, Title: Genes, Environment and the Development of Drug Abuse and Externalizing Disorders (Grant number: L30 DA032090)
- 2010 New Investigator Award Finalist, Rhode Island Hospital - 18<sup>th</sup> Annual Research Celebration
- 2010 – 2012 NIMH Post-doctoral Fellowship, Department of Psychiatry and Human Behavior at Brown University
- 2008 – 2009 Southern Regional Education Board (SREB) -AGEP Doctoral Scholar
- 2009 Student Travel Award, Behavior Genetics Association
- 2008 Student Travel Award, Behavior Genetics Association
- 2007 Student Travel Award, Behavior Genetics Association
- 2005 – 2010 NIMH Pre-doctoral University Fellowship, University of Colorado at Boulder

- 2005 Honors Degree in Biopsychology from William Paterson University
- 2005 Graduated Magna cum laude from William Paterson University
- 2001 Graduated Summa cum laude from Essex County College

## **GRANTSMANSHIP**

### ***Ongoing Support***

**DP1 DA042103**

**8/1/17-07/31/22**

**NIDA**

**\$1,500,000 (Direct costs)**

Title: The Kinship Risk Score: An Integrated Tool to Prioritize Alcohol and Drug-Addiction Related Genes for Enhanced Risk Prediction

*The goal of this project is to develop a novel genome-based prediction pipeline and tool for generalized drug dependence.*

**Role: Principal Investigator**

Details:

[https://projectreporter.nih.gov/project\\_info\\_description.cfm?aid=9162597&icde=36318132&ddparam=&ddvalue=&ddsub=&cr=2&csb=default&cs=ASC&pball=](https://projectreporter.nih.gov/project_info_description.cfm?aid=9162597&icde=36318132&ddparam=&ddvalue=&ddsub=&cr=2&csb=default&cs=ASC&pball=)

**R01 DA042742**

**4/1/18-3/31/23**

**NIDA**

**\$1,292,069 (Direct costs)**

Title: Integrative Prioritization of Alcohol and Drug-Addiction Related Genetic Loci

*The goal of this project is to identify genetic loci for alcohol, nicotine, and other drug addiction loci using cutting-edge genetic association methods that leverage (1) QTL and gene expression experiments in model organisms and (2) neurocognitive endophenotypes related to addiction.*

**Role: Principal Investigator**

Details:

[https://projectreporter.nih.gov/project\\_info\\_description.cfm?aid=9524302&icde=39069875&ddparam=&ddvalue=&ddsub=&cr=3&csb=default&cs=ASC&pball=](https://projectreporter.nih.gov/project_info_description.cfm?aid=9524302&icde=39069875&ddparam=&ddvalue=&ddsub=&cr=3&csb=default&cs=ASC&pball=)

**R01 HD095837 (Parade)**

**7/1/18-6/30/23**

**NICHD**

**\$196,673 (Sub Direct Costs)**

Title: Longitudinal Epigenetic Profiles of Risk and Adaptation across the First Year of Life

*The goal of this proposal is to uncover developmental trajectories of methylation of glucocorticoid- and inflammatory-signaling genes over the first year of life, and to identify risk and protective factors that contribute to change in methylation over time.*

**Role: Co-I**

Details:

[https://projectreporter.nih.gov/project\\_info\\_description.cfm?aid=9572656&icde=41825220&ddparam=&ddvalue=&ddsub=&cr=1&csb=default&cs=ASC&pball=](https://projectreporter.nih.gov/project_info_description.cfm?aid=9572656&icde=41825220&ddparam=&ddvalue=&ddsub=&cr=1&csb=default&cs=ASC&pball=)

### **Giles Robertson Funds for Addiction Studies (Emory University Department of Psychology)**

Title: MAPme Project Pilot Cohort (MAPme@Emory)

**Role: Principal Investigator**

Funding Period: 05/01/17 – ongoing

\$19,500

Inspired by Spit4Science, and my commitment to enhance undergraduate research education, the MAPme Project (<https://scholarblogs.emory.edu/bgabal/research/mapme/>) is a longitudinal initiative that transforms traditional research studies of college students by taking a community-oriented approach. MAPme uses an RDOC approach to prospectively examine the relationship

between brain functioning, genetics, and substance use-related behaviors of students as they transition into adulthood. MAPme's 3E's approach (Engage, Educate, Empower) to addiction research places students at the center of the project because we train and empower undergraduate students to conduct and present research evidence back into their campus communities.

**Canadian Institutes of Health Research (MacKillop & Samaan)**

Title: Pharmacogenomics of Methadone Maintenance Therapy

Funding Period: 04/01/18-03/31/2023

**Role: Co-I**

The goal of this proposal is to understand the poly/omnigenic role of DNA variation in response to methadone treatment. As PI, I provide intellectual and computational expertise by conducting and interpreting study data.

Details:

[http://webapps.cihr-](http://webapps.cihr-irsc.gc.ca/cris/person_search?txtLastName=Samaan&p_version=CRIS&p_language=E&p_session_id=1333597)

[irsc.gc.ca/cris/person\\_search?txtLastName=Samaan&p\\_version=CRIS&p\\_language=E&p\\_session\\_id=1333597](http://webapps.cihr-irsc.gc.ca/cris/person_search?txtLastName=Samaan&p_version=CRIS&p_language=E&p_session_id=1333597)

***Pending Support***

Hubert & Richard Hanlon Trust

Title: Addiction Liability, Disrupted Sleep, and Enhanced Risk of Heavy Drinking Among College Students

Proposed Funding Period: 01/01/2020-12/31/2022

Role: PI

***Completed Support***

National Institute of Alcohol Abuse and Alcoholism

K01AA021113

NIAAA

Title: System Genetics of Alcoholism: Network-based Approaches for Genetic Association

Role: Principal Investigator

Funding Period: 08/01/12 – 07/31/18

Center for Faculty Development and Excellence (Emory University)

Course: PSYC 180: Research in College Drug Use

Role: Instructor of Record

Funding Period: 05/19/17 – 05/10/18

\$3000

Canadian Institutes of Health Research (MacKillop & Samaan; Gap funding)

Title: Pharmacogenomics of Methadone Maintenance Therapy

Role: Co-Investigator

Funding Period: 04/01/17 – 03/31/18

National Center for Advancing Translational Sciences:

National Institute of Health Loan Repayment Program Award (L30TR001045)

Title: Identifying Shared and Non-Shared Genetic Influences on Alcohol and Drug Dependence in Subjects of European and African Ancestry

Funding Period: 08/15 – 07/17

National Center for Advancing Translational Sciences:

National Institute of Health Loan Repayment Program Award (L30TR001045)  
 Title: The Relationship between Executive Function, Substance Misuse, and Disinhibitory Psychopathology in Children Differentially Exposed to Tobacco in utero  
 Funding Period: 08/13 – 07/15

National Institute on Drug Abuse:  
 National Institute of Health Loan Repayment Program Award (L30DA032090)  
 Title: Genes, Environment, and the Development of Drug Abuse and Externalizing Disorders  
 Funding Period: 08/11 – 07/13

National Institute of Drug Abuse:  
 Research Associate (5R01DA023134-04)  
 Title: Prenatal Tobacco Exposure: Effects on Neuropsychological Outcomes and ADHD  
 Role: Research Associate (PI: Knopik, Valerie, Ph.D.)  
 Funding Period: 06/12 – 8/12

National Institute of Mental Health:  
 Post-Doctoral National Research Service Award (T32 MH019927-18)  
 Title: Research Training – Child Mental Health (Behavior Genetics)  
 Role: Postdoctoral Fellow (PI: Fritz, Gregory, M.D.)  
 Status: Funded  
 Funding Period: 07/10 – 05/12

National Institute of Mental Health:  
 Institutional Training Grant (T31 MH 16880)  
 Title: Research Training – Behavioral Genetics  
 Role: Pre-doctoral Trainee (PI: John Hewitt, Ph.D.)  
 Status: Completed  
 Funding Period: 06/05 – 05/10

R56 MH108650 (Beavers; Gap funding)  
 Title: Contribution of genome--wide variation to cognitive vulnerability to depression  
 Role: Co-Investigator

## **MEMBERSHIP IN SOCIETIES**

2013 – Present	International Society of Psychiatric Genetics
2012 – 2018	The College on Problems of Drug Dependence
2011 – Present	Research Society on Alcoholism
2011 – Present	International Society for Biomedical Research on Alcoholism
2011 – Present	National Institute of Health Loan Repayment Program Ambassador
2009 – 2010	Society for the Advancement of Chicanos/Hispanics and Native Americans in Science
2007 – Present	Association for Psychological Science
2005 – Present	Behavior Genetics Association
2005 – Present	Beta Beta Beta National Biological Honor Society
2001 – Present	Phi Theta Kappa – Alpha Theta Theta Chapter Alumni

## **REVIEW RESPONSIBILITIES**

***Associate Editor for the following journal(s):***

- Addiction

**Assistant Editor for the following journal(s):**

- Behavior Genetics

**ad hoc reviewer for the following journals:**

- Archives of General Psychiatry
- Drug and Alcohol Dependence
- Nicotine and Tobacco Research
- Alcohol Clinical and Experimental Research
- Journal of Abnormal Psychology
- Psychopharmacology
- Behavior Genetics
- Addictive Behaviors
- Neuro-Psychopharmacology & Biological Psychiatry
- Twin Research and Human Genetics
- Nature (Molecular Psychiatry)

**ad hoc reviewer for the following grant administering organizations:**

- National Science Centre (Poland; October 2015)
- National Institutes of Health (USA)
  - Scientific Grant Review (February 2016): NIH, Behavioral Genetics and Epidemiology (BGES) IRG
  - Scientific Grant Review (June 2017): NIH, Behavioral Genetics and Epidemiology (BGES) IRG

**PUBLICATIONS**

(\* - dual first authorship, ++ - dual senior author, <sup>G</sup> Graduate student I have mentored (or co-mentored); <sup>PD</sup> Postdoctoral fellow I have mentored; <sup>U</sup> Undergraduate student I have mentored)

**Peer reviewed full-length articles (as of 7/1/2019 - 746 citations; h-index 14; i10 index 18)**

- **Palmer RHC**, McGeary JE, Knopik VS, Bidwell LC, Metrik J. *CNR1* and *FAAH* Variation and Affective States Induced by Marijuana Smoking. *Am J Drug Alcohol Abuse*. 2019 Jun 11:1-13. doi: 10.1080/00952990.2019.1614596.
- <sup>PD</sup>Brick LA, Micalizzi L, Knopik VS, **Palmer RHC**. Additive genome-wide effects of DSM-IV opioid dependence across males and females. *J Stud Alcohol Drugs*. 2019 May;80(3):319-330.
- <sup>PD</sup>Brick LA, Marraccini ME, Micalizzi L, <sup>PD</sup>Benca-Bachman CE, Knopik VS, **Palmer RHC**. (*Journal of Affective Disorders*). Overlapping genetic contribution between suicidal ideation and neurocognitive functioning. *J Affect Disord*. 2019 Apr 15;249:104-111. doi:10.1016/j.jad.2019.02.003. Epub 2019 Feb 6.
- Beckley, A. L., **Palmer, R. H.**, Rocque, M., & Whitfield, K. E. (2019). Health and criminal justice system involvement among African American siblings. *SSM Popul Health*. 2019 Jan 25;7:100359. doi: 10.1016/j.ssmph.2019.100359. eCollection 2019 Apr.
- **Palmer RH**, <sup>PD</sup> Brick LA, Agrawal A, Beirut L, McGeary JE, Keller MC, Knopik VS. The Etiology of DSM-5 Alcohol Use Disorder: Evidence of Shared and Non-Shared Additive Genetic Effects Drug and Alcohol Dependence. *Drug Alcohol Depend*. 2019 Aug 1;201:147-154. doi:10.1016/j.drugalcdep.2018.12.034. Epub 2019 Jun 14.

- Micalizzi L, Marceau K, <sup>PD</sup> Brick LA, **Palmer RH**, Todorov AA, Heath AC, Evans A, Knopik VS. Inhibitory control in siblings discordant for exposure to maternal smoking during pregnancy. *Dev Psychol*. 2018 Feb;54(2):199-208. doi:10.1037/dev0000423. Epub 2017 Oct 23. PubMed PMID: 29058937; PubMed Central PMCID: PMC5788709.
- Bidwell LC, Marceau K, Brick LA, Karoly HC, Todorov AA, **Palmer RH**, Heath AC, Knopik VS. Prenatal Exposure Effects on Early Adolescent Substance Use: Preliminary Evidence From a Genetically Informed Bayesian Approach. *J Stud Alcohol Drugs*. 2017 Sep;78(5):789-794. PubMed PMID: 28930067; PubMed Central PMCID: PMC5675430.
- Marceau K, Cinnamon Bidwell L, Karoly HC, Evans AS, Todorov AA, **Palmer RH**, Heath AC, Knopik VS. Within-Family Effects of Smoking during Pregnancy on ADHD: the Importance of Phenotype. *J Abnorm Child Psychol*. 2018 May;46(4):685-699. doi:10.1007/s10802-017-0320-7. PubMed PMID: 28664227; PubMed Central PMCID: PMC5748020.
- <sup>PD</sup>Brick LA, Keller MC, Knopik VS, McGeary JE, **Palmer RHC**. Shared additive genetic variation for alcohol dependence among subjects of African and European ancestry. *Addict Biol*. 2019 Jan;24(1):132-144. doi: 10.1111/adb.12578. Epub 2017 Nov 27. PubMed PMID: 29178570; PubMed Central PMCID: PMC6312725.
- Feurer C, McGeary JE, Knopik VS, <sup>PD</sup>Brick LA, **Palmer RH**, Gibb BE. HPA Axis Multilocus Genetic Profile Score Moderates the Impact of Interpersonal Stress on Prospective Increases in Depressive Symptoms for Offspring of Depressed Mothers. *J Abnorm Psychol*. 2017 Nov;126(8):1017-1028. doi: 10.1037/abn0000316. PubMed PMID: 29154563; PubMed Central PMCID: PMC5726770
- **Palmer RH**, Beevers CG, McGeary JE, <sup>PD</sup>Brick LA, Knopik VS. A Preliminary Study of Genetic Variation in the Dopaminergic and Serotonergic Systems and Genome-wide Additive Genetic Effects on Depression Severity and Treatment Response. *Clin Psychol Sci*. 2017 Jan;5(1):158-165. doi: 10.1177/2167702616651075. Epub 2016 Oct 19. PubMed PMID: 28316879; PubMed Central PMCID: PMC5353843.
- Bidwell LC, **Palmer RH**, <sup>PD</sup>Brick L, Madden PA, Heath AC, Knopik VS. A Propensity Scoring Approach to Characterizing the Effects of Maternal Smoking During Pregnancy on Offspring's Initial Responses to Cigarettes and Alcohol. *Behav Genet*. 2016 May;46(3):416-30. doi: 10.1007/s10519-016-9791-5. Epub 2016 Apr 20. PubMed PMID: 27098899; PubMed Central PMCID: PMC4887264.
- Bidwell LC\*, **Palmer RH\***, <sup>PD</sup>Brick L, McGeary JE, Knopik VS. Genome-wide single nucleotide polymorphism heritability of nicotine dependence as a multidimensional phenotype. *Psychol Med*. 2016 Apr 7:1-11. [Epub ahead of print] PubMed PMID: 27052577.
- **Palmer RH\***, Nugent NR\*, <sup>PD</sup>Brick LA, Bidwell CL, McGeary JE, Keller MC, Knopik VS. Evidence of Shared Genome-Wide Additive Genetic Effects on Interpersonal Trauma Exposure and Generalized Vulnerability to Drug Dependence in a Population of Substance Users. *J Trauma Stress*. 2016 May 23. doi: 10.1002/jts.22103. [Epub ahead of print] PubMed PMID: 27214850.
- Kudinova AY, Deak T, Hueston CM, McGeary JE, Knopik VS, **Palmer RH**, Gibb BE. Cross-species evidence for the role of interleukin-33 in depression risk. *J Abnorm Psychol*. 2016 May;125(4):482-94. doi: 10.1037/abn0000158. Epub 2016 Apr 7. PubMed PMID: 27054346; PubMed Central PMCID: PMC4850099.
- Pearson R, **Palmer RH**, <sup>PD</sup>Brick LA, McGeary JE, Knopik VS, Beevers CG. Additive genetic contribution to symptom dimensions in major depressive disorder. *J Abnorm Psychol*. 2016 May;125(4):495-501. doi: 10.1037/abn0000161. PubMed PMID: 27124715; PubMed Central PMCID: PMC4852390.

- **Palmer RH**, Bidwell LC, Heath AC, <sup>PD</sup>Brick LA, Madden PA, Knopik VS. Effects of Maternal Smoking during Pregnancy on Offspring Externalizing Problems: Contextual Effects in a Sample of Female Twins. *Behav Genet.* 2016 May;46(3):403-15. doi: 10.1007/s10519-016-9779-1. Epub 2016 Jan 29. PubMed PMID: 26826031; PubMed Central PMCID: PMC4860102. The entire special issue was awarded the Fulker award by the BGA.
- Marceau K, **Palmer RHC**, Neiderhiser JM, Smith TF, McGeary JE, Knopik VS. Passive rGE or Developmental Gene-Environment Cascade? An Investigation of the Role of Xenobiotic Metabolism Genes in the Association Between Smoke Exposure During Pregnancy and Child Birth Weight. *Behav Genet.* 2016 Jan 23. [Epub ahead of print] PubMed PMID: 26803317.
- Knopik VS, Marceau K, Bidwell LC, **Palmer RHC**, Smith TF, Todorov A, Evans AS, Heath AC. Smoking during pregnancy and ADHD risk: A genetically informed, multiple-rater approach. *Am J Med Genet B Neuropsychiatr Genet.* 2016 Jan 22. doi:10.1002/ajmg.b.32421. [Epub ahead of print] PubMed PMID: 26799787.
- Knopik VS, Marceau K, **Palmer RH**, Smith TF, Heath AC. Maternal smoking during pregnancy and offspring birth weight: A genetically-informed approach comparing multiple raters. *Behav Genet.* 2015 Oct 22. [Epub ahead of print] PubMed PMID: 26494459.
- Bidwell LC, McGeary JE, Gray J, **Palmer RHC**, Knopik VS, & MacKillop J. An initial investigation of association between dopamine-linked genetic variation and smoking motives in African Americans. *Pharmacol Biochem Behav.* 2015 Sep 26;138:104-110. doi: 10.1016/j.pbb.2015.09.018. [Epub ahead of print] PubMed PMID: 26410615.
- Knopik VS, Heath AC, Marceau K, **Palmer RH**, McGeary JE, Todorov A, Evans AS. Missouri Mothers and Their Children: A Family Study of the Effects of Genetics and the Prenatal Environment. *Twin Res Hum Genet.* 2015 Oct;18(5):485-96. doi: 10.1017/thg.2015.46. Epub 2015 Jul 29. PubMed PMID: 26220592; PubMed Central PMCID: PMC4631647.
- **Palmer RH**, McGeary JE, Heath AC, Keller MC, <sup>PD</sup>Brick LA, Knopik VS. Shared Additive Genetic Influences on DSM-IV Criteria for Alcohol Dependence in Subjects of European Ancestry. *Addiction.* 2015 Jul 25. doi: 10.1111/add.13070. [Epub ahead of print] PubMed PMID: 26211938.
- Owens M, Harrison AJ, Burkhouse KL, McGeary JE, Knopik VS, **Palmer RH**, Gibb BE. Eye tracking indices of attentional bias in children of depressed mothers: Polygenic influences help to clarify previous mixed findings. *Dev Psychopathol.* 2015 Jun 1:1-13. [Epub ahead of print] PubMed PMID: 26030911.
- Woody ML, Kudinova AY, McGeary JE, Knopik VS, **Palmer RH**, Gibb BE. Influence of maternal depression on children's brooding rumination: Moderation by CRHR1 TAT haplotype. *Cogn Emot.* 2015 Feb 3:1-13. PubMed PMID:25648046.
- **Palmer RH**, <sup>PD</sup> Brick L, Nugent NR, Bidwell LC, McGeary JE, Knopik VS, Keller MC. Examining the role of common genetic variants on alcohol, tobacco, cannabis and illicit drug dependence: genetics of vulnerability to drug dependence. *Addiction.* 2015 Mar;110(3):530-PubMed PMID: 25424661; PubMed Central PMCID: PMC4329043
- Bidwell LC, McGeary JE, Gray JC, **Palmer RH**, Knopik VS, MacKillop J. NCAM1-TTC12-ANKK1-DRD2 variants and smoking motives as intermediate phenotypes for nicotine dependence. *Psychopharmacology (Berl).* 2015 Apr;232(7):1177-86. PubMed PMID: 25273375; PubMed Central PMCID: PMC4361268.
- Stone LB, McGeary JE, **Palmer RH**, Gibb BE. Identifying genetic predictors of depression risk: 5-HTTLPR and BDNF Val66Met polymorphisms are associated with rumination and



co-rumination in adolescents. *Front Genet.* 2013 Nov 13; 4:246. PubMed PMID: 24312122; PubMed Central PMCID: PMC3826084

- **Palmer RH**, Young SE, Corley RP, Hopfer CJ, Stallings MC, Hewitt JK. Stability and change of genetic and environmental effects on the common liability to alcohol, tobacco, and cannabis DSM-IV dependence symptoms. *Behav Genet.* 2013 Sep;43(5):374-85. PubMed PMID: 23760788; PubMed Central PMCID: PMC3794456.
- Bidwell LC, Metrik J, McGeary J, **Palmer RH**, Francazio S, Knopik VS. Impulsivity, variation in the cannabinoid receptor (CNR1) and fatty acid amide hydrolase (FAAH) genes, and marijuana-related problems. *J Stud Alcohol Drugs.* 2013 Nov;74(6):867-78. PubMed PMID: 24172113; PubMed Central PMCID: PMC3817049.
- **Palmer RH**, Knopik VS, Rhee SH, Hopfer CJ, Corley RC, Young SE, Stallings MC, Hewitt JK. Prospective effects of adolescent indicators of behavioral disinhibition on DSM-IV alcohol, tobacco, and illicit drug dependence in young adulthood. *Addict Behav.* 2013 Sep;38(9):2415-21. PubMed PMID: 23685327; PubMed Central PMCID: PMC3681900.
- **Palmer RH**, McGeary JE, Francazio S, Raphael BJ, Lander AD, Heath AC, Knopik VS. The genetics of alcohol dependence: advancing towards systems-based approaches. *Drug Alcohol Depend.* 2012 Oct 1;125(3):179-91. PMID: 22854292. PMCID: PMC3470479
- McGeary JE, Knopik VS, Hayes JE, **Palmer RH**, Monti PM, Kalman D. Predictors of relapse in a bupropion trial for smoking cessation in recently-abstinent alcoholics: preliminary results using an aggregate genetic risk score. *Subst Abuse.* 2012; 6:107-14. PMID: 23032639. PMCID: PMC3460669.
- **Palmer RH**, Button TM, Rhee SH, Corley RP, Young SE, Stallings MC, Hopfer CJ, Hewitt JK. Genetic etiology of the common liability to drug dependence: Evidence of common and specific mechanisms for DSM-IV dependence symptoms. *Drug Alcohol Depend.* 2012 Jan 11. PMID: 22243758. PMCID: PMC3342475.
- **Palmer RH**, Young SE, Hopfer CJ, Corley RP, Stallings MC, Crowley TJ, Hewitt JK. Developmental epidemiology of drug use and abuse in adolescence and young adulthood: Evidence of generalized risk. *Drug Alcohol Depend.* 2009 Jun 1; 102(1-3):78-87. PMID: 19250776. PMCID: PMC2746112.

***A detailed bibliography is available at NCBI MyBibliography and ORCID:***

- <https://www.ncbi.nlm.nih.gov/myncbi/rohan.palmer.1/bibliography/public/>
- <https://orcid.org/0000-0002-6809-9962>

***Publications currently under review & Pre-prints***

- <sup>PD</sup>Benca-Bachman, C.E., Najera, D., Whitfield, K., **Palmer, RHC**. (*American Journal of Geriatric Psychiatry*). Social Support as a resilience mechanism for stress and depression in African Americans.
- Micalizzi L, <sup>PD</sup>Brick LA, Marraccini ME, <sup>PD</sup>Benca-Bachman CE, **Palmer RHC<sup>++</sup>**, Knopik VS<sup>++</sup>. (*Development and Psychopathology*). Differential patterns of genetic overlap between inattention and four neurocognitive factors in youth.
- <sup>©</sup>Brown A\*, <sup>©</sup>Espana R\*, <sup>U</sup>Koehnke C., <sup>PD</sup>Benca-Bachman CE, **Palmer RHC**. (*Addiction; Preprint June 2019*). Individual transmissible risk mediates the effects of familial history of substance use and internalizing problems on alcohol use during the transition from high school to college. PsyArXiv. June 19. doi:10.31234/osf.io/6m7tu.

- Ekblad, M., Rolan, E., Marceau, K., Todorov, A., **Palmer, RHC**, Heath, A.C., Knopik, V.S. (Nicotine and Tobacco Research). Disruptive behavior in siblings discordant for exposure to maternal smoking during pregnancy: The MO-MATCH study.
- Micalizzi, L., Marceau, K., Evans, A.S., **Palmer, R.H.**, Heath, A.C., Knopik, V.S. (*Child Development*) Smoking during pregnancy and child reading and language performance: A genetically-informed approach.

### ***Publications in preparation***

- <sup>U</sup>Gordon M\*, <sup>PD</sup> Benca-Bachman C\*, Najera D, **Palmer RHC**. Contextual Effects of Religiosity and Social Support on Transmissible Liability to Alcohol Use: A Longitudinal Study. To be submitted to JAMA Psychiatry in July 2019.
- **Palmer RHC**, <sup>PD</sup> Benca-Bachman C, <sup>U</sup> Ramgiri N, <sup>U</sup> Sryjeyanthan J, Yang J, McGeary JE, Visscher P, Yang J, Chesler E, Bubier J. Cross-Species Prioritization of Genomic Loci for Complex Traits. To be submitted to The American Journal of Human Genetics in August 2019
- <sup>U</sup>Risner T, <sup>PD</sup> Benca-Bachman C, <sup>G</sup> Bertin L, Martin A, Weinschenker D, **Palmer RHC**. Multi-trait Polygenic Prediction of Nicotine Dependence. To be submitted to Biological Psychiatry in July 2019.
- <sup>U</sup>Boateng A\*, <sup>PD</sup>Benca C\*, Najera D., **Palmer RHC**. The role of emotional distress and social support on substance use in African Americans. To be submitted to Drug and Alcohol Dependence June 2019
- <sup>G</sup>Bertin L, <sup>PD</sup>Benca-Bachman C, Kogan SM, **Palmer RHC**. Disentangling Relationships between Impulsivity and Alcohol Use in Young African American Males. To be submitted to Psychological Science July 2019
- <sup>G</sup>Bertin L, <sup>PD</sup>Benca-Bachman C, Whitfield K, **Palmer RHC**. Shared Genetic and Environmental Effects on Social Support, Stress, and Depression in African American Twins. To be submitted to Behavior Genetics August 2019
- <sup>G</sup>Martin K, <sup>PD</sup>Benca-Bachman C, **Palmer RHC**. Understanding Risk for Alcohol Use in First-Year Students: The Role of Personality and Stress. To be submitted to Addictive Behaviors July 2019
- <sup>PD</sup>Benca-Bachman, CE, <sup>G</sup>Bertin, L, Najera, D, Kogan SM, **Palmer RHC**. Trajectories of state hope and perceived life chances predicting substance use in rural African American males. To be submitted to Addiction December 2019.
- **Palmer RHC**, <sup>PD</sup>Benca C, <sup>U</sup>Romero P, Heath AC, Nurnberger J, Edenberg H, Bucholz K. Genomewide Analysis of the Behavioral Effects of Alcohol Withdrawal. To be submitted to: Behavior Genetics November 2019.
- <sup>PD</sup>Benca-Bachman C\*, <sup>U</sup>Ramgiri N\*, <sup>U</sup>Sryjeyanthan J, Bubier J., Chesler E, **Palmer RHC**. Integrative Prioritization and Prediction of Loci for Tobacco Consumption: Contextual Considerations for Cross-Species Methods. To be submitted to Addiction Biology January 2020
- Feurer C, McGeary JE, Knopik VS, <sup>PD</sup>Brick LA, **Palmer RH**, and Gibb BE. Genetic Influences on Stress Generation among Daughters of Depressed Mothers. To be submitted to: To be determined.

### **BOOKS AND BOOK CHAPTERS**

- **Palmer RH & McGeary JE.** Models of drug addiction: Theories and future applications in prevention and treatment. *The Brown University Child and Adolescent Behavior Letter*. 2016 April 25; 32(5):1-7.
- Kreutzer, Jeffrey, DeLuca, John, Caplan, Bruce (Eds.) (2010). *Encyclopedia of Clinical Neuropsychology*. ISBN: 978-0-387-79947-6. **Role: Developed multiple reference entries with examples** (i.e., Adoption Studies, Chromosome, Gene, Polymorphism, Deoxyribonucleic Acid (DNA), Gene-Environment interaction, Twin Studies, Genotype, and Phenotype). See: <http://link.springer.com/search?facet-creator=%22Rohan+Palmer%22> for details.

## **INVITED PRESENTATIONS/TALKS/SYMPOSIA**

### **2019**

- Institute for Molecular Medicine in Helsinki, Finland. (FIMM; June 2019). *Understanding Pathways to Drug Use and Addiction*.
- Institute for the Liberal Arts (April, 2019). *Making Sense of GWAS: The Role of Transcriptionally Regulated Genes*.
- 2019 NIDA Genetics Consortium Meeting in Bethesda, MD (January, 2019). *Cross-Species Prioritization of Genomic Loci for Drug Addiction: An Example Using Alcohol Consumption*.
- Emory College Alumni Board (October, 2018). *MAPme: Research for students, by students*.

### **2018**

- Symposium Chair: Behavioral Genetics Association (June 2018). *Ethics in Behavior Genetics: Challenges & Considerations To Studies Including Racial/Ethnic Diversity as a Biological Variable*
- Research Society on Alcoholism (June 2018). Cross-Species Data Integration for Characterization, Prediction, and Treatment of Alcohol Use Disorders. Palmer Title: *Multivariate Genetics Architecture of DSM-5 Alcohol Use Disorder*.
- Keynote Address: *Doorways to Opportunities*. William Paterson University Honors College Graduation Banquet, April 21, 2018. Wayne NJ.
- NIDA Genetics Consortium Meeting in Bethesda, MD (January 2018). *Multivariate Genetics Architecture of DSM-5 Alcohol Use Disorder*.

### **2017**

- Emory University Department of Psychology *Psi Chi* Induction Ceremony guest speaker.

### **2016**

- National Institute on Drug Abuse Genetics Consortium Meeting (December, 2016), Rockville MD. Title: Estimation of the Genomewide Additive Genetic Covariance Across subjects of European and African Ancestry: An Example Using Alcohol Dependence.
- Department of Biostatistics, Emory University (November, 2016). Title: *Genetic Characterization of Substance Use Disorders*.

### **2015**

- Department of Psychiatry and Human Behavior – Postdoctoral Training Seminar Series (October, 2015). Title: *The Art of Power Analysis - A guide to power analysis in research design and grant preparation*.
- Rhode Island Hospital – Division of Behavioral Genetics Seminar Series (January 2015). Title: *Got Data? Caveats to Leveraging Low/High-Dimensional Genomics Data – Part 2*.

#### 2014

- Rhode Island Hospital – Division of Behavioral Genetics Seminar Series (December 2014). Title: *Got Data? Caveats to Leveraging Low/High-Dimensional Genomics Data – Part 1*.
- Invited Speaker at the Laboratory of Clinical and Translational Studies at the National Institute on Alcohol Abuse and Alcoholism (NIAAA) (May 2014). Title: *Redefining Alcohol Dependence for Genetics Research: Considerations and Limitations*.

#### 2013

- Rhode Island Hospital – Division of Behavioral Genetics Seminar Series (May 2013). Title: *Caveats in Identifying Genes: “The Case of the Missing Heritability”*.
- Invited Speaker for special oral poster session. XXIst World Congress on Psychiatric Genetics (2013) Special Session on Genetics and Addictions. Boston, MA. Poster Title: *Estimation of Genetic Covariance among DSM-IV Symptoms of Alcohol Dependence*.
- Invited Speaker. PIRE Research – RI. Title: *Whole Genome Prediction Modeling*.

#### 2012

- Bradley Hasbro Children’s Research Center Seminar Series (Spring 2012). Title: *Pleiotropic Genes and the Liability to Drug Dependence in Teens and Young Adults*.

#### 2011

- Keynote Speaker, Colorado Diversity Initiative at the University of Colorado at Boulder. Summer Multicultural Access to Research and Training (S.M.A.R.T) Banquet (Boulderado Hotel, Boulder CO, 2011).
- Invited Speaker, Brown University Center for Computational and Molecular Biology Working Meeting, Title: *Genetics Differences and the Liability to Drug Dependence: The Future of Genetic Association* (2011).

#### 2009

- Invited Panelist, Society for the Advancement of Chicanos and Native Americans in Science, Title: *See Yourself on the Flipside: A Candid Discussion of the Graduate Experience*. Dallas, TX, 2009).
- Invited Presenter, Boulder County “I have a Dream Foundation”. Location: University of Colorado at Boulder. Designed and presented a lecture for groups of high school students. Title: *DNA and Inheritance* (Boulder CO, 2009)

### **SELECTED MEDIA AND OTHER ATTENTION**

- CNN: What role does genetics play in opioid addiction?  
(<https://www.cnn.com/2018/02/22/health/genome-genetic-opioid-addiction-study/index.html>)

- Emory News Center: New research aims to understand how genetic differences contribute to addiction ([https://news.emory.edu/stories/2018/01/er\\_palmer\\_addiction/campus.html](https://news.emory.edu/stories/2018/01/er_palmer_addiction/campus.html)).
- Emory News Center: New professors bring extensive expertise to Emory. ([https://news.emory.edu/stories/2016/08/er\\_bts\\_new\\_faculty\\_2016/campus.html](https://news.emory.edu/stories/2016/08/er_bts_new_faculty_2016/campus.html))
- NIH Loan Repayment Program Ambassador Feature. August 2017 LRP Ambassador Newsletter.
- Our2SNPs Blog (<http://blog.goldenhelix.com/>). Guest Webcast 08/10/2016. Title: Investigating Shared Additive Genetic Variation for Alcohol Dependence.

## **ABSTRACTS/PRESENTATIONS/SYMPOSIA** (includes published abstracts)

(\* - dual first authorship, <sup>G</sup> Graduate student I have mentored (or co-mentored); <sup>PD</sup> Postdoctoral fellow I have mentored; <sup>U</sup> Undergraduate student I have mentored; underlined text indicates site of presentation(s). A complete list of students is provided at the end of this CV).

- <sup>U</sup>Risner V, <sup>PD</sup>Benca-Bachman C, <sup>G</sup>Bertin L **Palmer RHC**. Polygenic Prediction of Nicotine and Alcohol Dependence. Presented at Presented at the 49<sup>th</sup> Meeting of the Behavioral Genetics Association 2019, Stockholm, Sweden.
- <sup>U\*</sup>Amellio M, <sup>U\*</sup>Loche S, Najera D, <sup>PD</sup> Benca-Bachman C, Barber J, **Palmer RHC**. Risk and Protective Factors for Depression on College Campuses. Presented at 2019 Georgia Psychological Association Meeting; Emory Undergraduate Research Symposium on April 24<sup>th</sup> 2019.
- <sup>U\*</sup>Agarwal A, <sup>U\*</sup>Agarwal, Benca-Bachman C, Barber J, **Palmer RHC**. Association between Alcohol Consumption and Dysphoria among First-Year Undergraduate Students. Presented at the Emory Undergraduate Research Symposium on April 24<sup>th</sup> 2019.
- <sup>U\*</sup>Swanson J, <sup>PD</sup>Benca-Bachman C, Barber J, **Palmer RHC**. Association between Trauma History and Anxiety. Presented at 2019 Georgia Psychological Association Meeting. Presented at the Emory Undergraduate Research Symposium on April 24<sup>th</sup> 2019.
- <sup>U\*</sup>Catherman C, <sup>U\*</sup>Cassidy S, <sup>PD</sup>Benca-Bachman C, Barber J, **Palmer RHC**. The Relationship Between the Big five Model of Personality and Sleep Quality. Presented at 2019 Georgia Psychological Association Meeting; Emory Undergraduate Research Symposium on April 24<sup>th</sup> 2019.
- <sup>U\*</sup>Yip K, <sup>U\*</sup>Ponnazhagan, <sup>PD</sup>Benca-Bachman C, Barber J, **Palmer RHC**. Contribution of Interpersonal and Non-Interpersonal Trauma to Depression in First-Year Students. Presented at 2019 Georgia Psychological Association Meeting. Presented at the Emory Undergraduate Research Symposium on April 24<sup>th</sup> 2019.
- <sup>U</sup>Ramgiri N, <sup>PD</sup>Benca-Bachman C, <sup>U</sup>Sryjeyanthan J, Bubier J, Chesler E, **Palmer RHC**. Integrative Prioritization of Genetic Loci for Nicotine Dependence. Presented at Inaugural Research Across Psychology Meeting, Emory University Dept of Psychology, March 4, 2019; Emory Undergraduate Research Symposium on April 24<sup>th</sup> 2019; 2019 Meeting of the Association for Psychological Science, Washington DC.
- <sup>U</sup>Risner V, <sup>G</sup>Bertin L, <sup>PD</sup>Benca-Bachman C, **Palmer RHC**. Multi-trait Polygenic Prediction of Nicotine Dependence. Presented at Inaugural Research Across Psychology Meeting, Emory University Dept of Psychology, March 4, 2019. Presented at the Neuroscience and Behavioral Biology Research Symposium on April 23<sup>rd</sup> 2018 & April 22<sup>nd</sup> 2019; 2019 Meeting of the Association for Psychological Science, Washington DC.
- <sup>G</sup>Martin K, <sup>PD</sup>Benca-Bachman C, **Palmer RHC**. Understanding Differences in Alcohol Use Among First-year College Students: the Role of Personality & Stress. Presented at the 2019 Meeting of the Georgia Psychological Association (awarded best graduate student poster);

Inaugural Research Across Psychology Meeting, Emory University Dept of Psychology, March 4, 2019.

- <sup>PD</sup>Benca-Bachman C, <sup>U</sup>Ramgiri N, <sup>U</sup>Sryjeyanthan J, Bubier J, Chesler E, **Palmer RHC**. Integrative Prioritization of Genetic Loci for Nicotine Dependence. Presented at: 2019 NIDA Genetics Consortium Meeting in Bethesda, MD.
- <sup>U</sup>Malik-Williams R, <sup>U</sup>Boateng-Paku A, Whitfield K, Najera D, **Palmer RHC**. Investigating the Role of Religiosity in Alcohol and Tobacco Use among Individuals of African Ancestry. Presented at: The Emory University Undergraduate Research Symposium Spring 2017, Atlanta GA.
- **Palmer RHC**, Integrative Prioritization of Genetic Loci for Alcohol Dependence. Presented at the 2019 Behavioral Genetics Association Meeting in Boston, MA. BEHAVIOR GENETICS 48 (6), 505-505
- <sup>G</sup>Bertin L, <sup>PD</sup>Benca-Bachman C, Whitfield K, **Palmer RHC**. Shared Genetic and Environmental Effects on Social Support, Stress, and Depression in African American Twins. Presented at the 30<sup>th</sup> Annual meeting of the Association for Psychological Science in San Francisco, CA.
- <sup>U</sup>Boateng-Poku A, <sup>PD</sup>Benca-Bachman CE, Najera D, Whitfield K, **Palmer RHC** (APS 5/2018). The role of emotional distress and social support on substance use in African Americans. Presented at the 30<sup>th</sup> Annual meeting of the Association for Psychological Science in San Francisco, CA. Received honorable mention; Neuroscience and Behavioral Biology Research Symposium on May 23<sup>rd</sup> 2018.
- <sup>PD</sup>Benca-Bachman CE, Najera D, Whitfield K, **Palmer RHC**. (2018) Social Support as a resilience mechanism for stress and depression in African Americans. Presented at the 30<sup>th</sup> Annual meeting of the Association for Psychological Science in San Francisco, CA.
- <sup>U</sup>Romero PN, <sup>PD</sup>Benca-Bachman CE, Bucholz KK, Heath AC, Edenberg H, Nurnberger J, Knopik VS, **Palmer RHC**. Genetic architecture of alcohol withdrawal symptoms. Presented at the 30<sup>th</sup> Annual meeting of the Association for Psychological Science in San Francisco, CA; Neuroscience and Behavioral Biology Research Symposium on May 23<sup>rd</sup> 2018.
- <sup>G</sup>Bertin L, <sup>PD</sup>Benca-Bachman C, Whitfield K, **Palmer RHC**. Shared Genetic and Environmental Effects on Social Support, Stress, and Depression in African American Twins. Presented at the 2018 Behavioral Genetics Association Meeting in Boston, MA. BEHAVIOR GENETICS 48 (6), 457-458.
- Micalizaai L, <sup>PD</sup>Brick L, Marracinni M, <sup>PD</sup>Benca-Bachman C, **Palmer R**, Knopik V. (2018) Differential patterns of genetic overlap between inattention and four neurocognitive factors. Presented at the 2018 Behavioral Genetics Association Meeting in Boston, MA. BEHAVIOR GENETICS 48 (6), 496-497.
- <sup>PD</sup>Brick L, Marracciini M, Micalizzi L, Benca-Bachman C, Knopik V, **Palmer R**. (2018) Genetic contributions to suicidal ideation and neurocognitive functioning. BEHAVIOR GENETICS 48 (6), 496-497.
- Marceau K, Bidwell LC, Karoly HC, Evans AS, Todorov AA, **Palmer RH**, Knopik VS. (2018) Within-family effects of smoking during pregnancy on ADHD: the importance of phenotype. Journal of abnormal child psychology 46 (4), 685-699.
- Micalizzi L, Marceau K, <sup>PD</sup>Brick LA, **Palmer RH**, Todorov AA, Heath AC, Knopik VS. (2018) Inhibitory control in siblings discordant for exposure to maternal smoking during pregnancy. Developmental psychology 54 (2), 199.
- <sup>U</sup>Gordon M, <sup>PD</sup>Benca-Bachman C, Najera D, **Palmer RHC**. Contextual Effects of Religiosity and Social Support on Transmissible Liability to Alcohol Use: A Longitudinal Study.

Presented at the Emory University Undergraduate Research Day Poster Symposium on May 25<sup>th</sup> 2018; 2019 Meeting of the Association for Psychological Science.

- <sup>U</sup>Srijeyanthan J, Bubier J, Chesler E, Benca-Bachman CE, **Palmer RHC**. Cross-species Prioritization of Genomic Loci for Alcohol Use Disorder. Presented at the Neuroscience and Behavioral Biology Research Symposium on May 23<sup>rd</sup> 2018; 2019 Meeting of the Association for Psychological Science.
- Beckly A., **Palmer RH**, Rocque M., Whitfield K. Health and criminal conviction among African Americans: A sibling study. Presented at the 2017 American Society of Criminology Meeting in Philadelphia, PA. SSM-population health 7, 100359
- <sup>©</sup>Poore H, LoParo D, **Palmer RHC**, Kerley K, Walum H, Young L, Ressler K, Waldman I. (2017) Association between the Oxytocin Receptor Gene (OXTR) and Childhood Aggression. Presented at the 47<sup>th</sup> Annual meetings of the Behavior Genetics Association in Oslo, Norway. BEHAVIOR GENETICS 47 (6), 666-667.
- Feurer C, McGeary JE, Knopik VS, <sup>PD</sup>Brick LA, **Palmer RH**, Gibb BE. (2017) HPA axis multilocus genetic profile score moderates the impact of interpersonal stress on prospective increases in depressive symptoms for offspring of depressed mothers. Journal of abnormal psychology 126 (8), 1017.
- <sup>PD</sup>Brick LA, Micalizzi L, Marraccini ME, Knopik VS, **Palmer RHC**. (2017) Additive genome-wide effects on Opioid Dependence: Evidence for genetic correlation with childhood trauma. Presented at the 47<sup>th</sup> Annual meetings of the Behavior Genetics Association in Oslo, Norway. BEHAVIOR GENETICS 47 (6), 666-666.
- **Palmer RHC**, <sup>PD</sup>Brick LA, Agrawal A, Keller MC, Heath AC, McGeary JE, Beirut L., Knopik VS. (2017) Multivariate Genetics Architecture of DSM-5 Alcohol Use Disorder. Presented at the 47<sup>th</sup> Annual meetings of the Behavior Genetics Association in Oslo, Norway. BEHAVIOR GENETICS 47 (6), 645-645
- Micalizzi L, Marceau K, <sup>PD</sup>Brick L, **Palmer R**, Todorov A, Heath AC, Evans A, Knopik V. (2017) A Sibling Comparison Study of Maternal Smoking During Pregnancy and Child Cognitive Functioning. Presented at the 47<sup>th</sup> Annual meetings of the Behavior Genetics Association in Oslo, Norway. BEHAVIOR GENETICS 47 (6), 711-711.
- **Palmer R**, Bidwell C, Heath A, <sup>PD</sup>Brick L, Madden P, V Knopik. (2016) Maternal smoking during pregnancy and offspring behavior I: a propensity score approach. Presented at the 46<sup>th</sup> Annual Behavior Genetics Association Meeting, Brisbane Australia. BEHAVIOR GENETICS 46 (6), 791-791.
- Knopik V, Bidwell C, **Palmer R**, <sup>PD</sup>Brick L, P Madden, A Heath. (2016) Maternal smoking during pregnancy and offspring behavior II: a propensity score approach. Presented at the 46<sup>th</sup> Annual Behavior Genetics Association Meeting, Brisbane, Australia. BEHAVIOR GENETICS 46 (6), 790-791
- **Palmer RHC**, <sup>PD</sup>Brick LA, Agrawal A, Keller MC, Heath AC, McGeary JE, Bierut LJ, Knopik VS (2016) Multivariate Genetics Architecture of DSM-5 Alcohol Use Disorder. Presented at the Research Society on Alcoholism Meeting, New Orleans, LA. ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH 40, 306A-306A.
- <sup>PD</sup>Brick LA, Knopik VS, Keller MC, **Palmer RHC** (2016) Investigating Shared Additive Genetic Variation for Alcohol Dependence Across Individuals of African and European Ancestry. Presented at the Research Society on Alcoholism Meeting, New Orleans, LA. ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH 40, 43A-43A



- Pearson R, **Palmer RHC**, <sup>PD</sup>Brick LA, McGeary JE, Knopik VS, Beevers CG. (2016) Additive genetic contribution to symptom dimensions in major depressive disorder. JOURNAL OF ABNORMAL PSYCHOLOGY 125 (4), 495
- Kudinova AY, Deak T, Hueston CM, McGeary JE, Knopik VS, **Palmer RHC**, Gibb BE. (2016) Cross-species evidence for the role of interleukin-33 in depression risk. JOURNAL OF ABNORMAL PSYCHOLOGY 125 (4), 482
- Knopik V, Marceau K, Bidwell C, **Palmer R**, Smith T, Heath A (2015) Smoking during pregnancy and ADHD risk: a genetically-informed, multiple-rater approach. Presented at the 46th Behavior Genetics Association Meeting, San Diego, CA. BEHAVIOR GENETICS 45 (6), 666-666.
- Marceau, **Palmer R**, Neiderhiser J, Smith T, Knopik V (2015) Passive gene-environment correlation or a developmental gene-environment cascade? Investigating mechanisms of the association of smoking during pregnancy and birth weight using a polygenic scoring approach. Presented at the 46<sup>th</sup> Meeting of the Behavioral Genetics Association, San Diego, CA. BEHAVIOR GENETICS 45 (6), 671-672
- **Palmer R**, McGeary J, Heath A, Keller M, Knopik V. (2015) Validating the assumption of genetic homogeneity across DSM-IV indicators of alcohol dependence. Presented at the 46th Behavior Genetics Association Meeting, San Diego, CA. BEHAVIOR GENETICS 45 (6), 678-678
- **Palmer RH**, Keller MC, Heath AC, McGeary JE, Knopik VS (2015) Genetic Influences On Dsm-IV Indicators Of Alcohol Dependence: Evidence For A Common Genetic Liability. Presented at the 46th Behavior Genetics Association Meeting, San Diego, CA. ALCOHOLISM: CLINICAL & EXPERIMENTAL RESEARCH 39, 247A
- Bidwell LC, **Palmer RH**, <sup>PD</sup>Brick L, Heath AC, Hutchison KE, Knopik VS (2015) A Propensity Scoring Approach To Characterizing The Effects Of Maternal Smoking During Pregnancy On Initial Responses To Tobacco And Alcohol In Adolescents. ALCOHOLISM: CLINICAL & EXPERIMENTAL RESEARCH 39
- Brick LAD, Knopik VS, Velicer WF, **Palmer R** (2015) Genome-Wide Complex Trait Analysis of Shared Genetic Effects between Brain Electrophysiology Measures and Alcohol Dependence. Presented at Modern Methods Modeling Conference, University of Connecticut, Storrs, CT. MULTIVARIATE BEHAVIORAL RESEARCH 50 (1), 129-130.
- Kudinova AY, Hueston C, Deak T, McGeary JE, Knopik VS, **Palmer RHC**, Gibb BE (2014) Early Life Stress, Pro-Inflamamatory Cytokines, and Depression, Preliminary Evidence for A Gene x Environment Model of Risk. PSYCHOPHYSIOLOGY 51, S59-S59
- Owens M, Harrison AJ, Burkhouse KL, McGeary JE, Knopik VS, **Palmer RHC**, Gibb BE (2014). Eye-tracking indices of attentional bias in children of depressed mothers: Polygenic influences help to clarify previous mixed findings. In B.E. Gibb (Chair) Biomarkers of risk in children of depressed mothers. Symposium presentation at the annual meeting of the Society for Psychophysiological Research, Atlanta, GA. PSYCHOPHYSIOLOGY 51, S4-S4.
- Bidwell LC, McGeary J, Gray J, **Palmer R**, Knopik VS, MacKillop J. (2014) NCAM1-TTC12-ANKK1-DRD2 polymorphisms and smoking motives as intermediate phenotypes for nicotine dependence. Paper presented at the 44<sup>th</sup> Behavior Genetics Association meeting in Charlottesville, VA. BEHAVIOR GENETICS 44 (6), 649-649
- **Palmer R**, Brick L, Nugent N, Bidwell C, McGeary J, Knopik VS, Keller M. (2014, June). Common Genetic Variants Have Generalized Influences on Substance Dependence. Paper presented at the 44<sup>th</sup> Behavior Genetics Association meeting in Charlottesville, VA. BEHAVIOR GENETICS 44 (6), 675-676



- **Palmer R**, Brick L, Knopik V (2014) Genomewide Genetic And GxE Effects On The Liability To Alcohol And Tobacco And Illicit Drug Dependence. Presented at the 2014 Research Society on Alcoholism Meeting, Bellevue, WA. ALCOHOLISM: CLINICAL & EXPERIMENTAL RESEARCH 38, 221A
- Stone LB, McGeary JE, Palmer RHC, Gibb BE. (2014) Identifying genetic predictors of depression risk: 5-HTTLPR and BDNF Val66Met polymorphisms are associated with rumination and co-rumination in adolescents. FRONTIERS IN GENETICS 4, 246
- **Palmer RHC**, Keller M, Heath AC, McGeary J, Knopik VS. (2013). Estimation of Genetic Covariance Among DSM-IV Symptoms of Alcohol Dependence. Oral presentation at the annual meeting of the World Congress of Psychiatric Genetics, Boston, MA.
- Smith TF, **Palmer RHC**, Knopik VS, Anastopoulos AD, Garrett ME, Ashley-Koch A, & the IMAGE Consortium (July, 2013). Angiogenic, neurotrophic and inflammatory system SNPs moderate the association between birth weight and ADHD. Oral presentation Behavioral Genetics Association meeting, Marseille, France. BEHAVIOR GENETICS 43 (6), 542-542
- Knopik VS, Smith TF, **Palmer RHC** (2013). Genes, maternal smoking during pregnancy and child internalizing problems: An investigation using ALSPAC. Oral presentation presented at Behavioral Genetics Association, 2013 Marseilles, France. BEHAVIOR GENETICS 43 (6), 526-526
- **Palmer RHC**, Bidwell LC, Nugent NR, Bucholz KK, Madden PA, Heath AC, Knopik VS (2013). Initial subjective response to alcohol: relationships to comorbid psychopathology and effects on future alcohol use and dependence. Paper presented at the annual meeting of the Research Society on Alcoholism, Orlando, FL. ALCOHOLISM: CLINICAL & EXPERIMENTAL RESEARCH 37
- **Palmer RHC**, Keller MR, Heath AC, McGeary JE, Knopik VS (2013). Estimation of the genetic covariance among DSM-IV symptoms of alcohol dependence. Poster presented at BGA 2013. Marseilles, France. BEHAVIOR GENETICS 43 (6), 535-535
- **Palmer RHC**, Bidwell LC, Heath AC, Madden PAF, Bucholz K, McGeary J, Knopik VS (2012). The Role of Conduct Disorder in Explaining the Common Genetic Influences on Initial Sensitivity to Alcohol and Tobacco. Presented at the annual meeting of the Behavior Genetics Association, Edinburgh, Scotland. BEHAVIOR GENETICS 42 (6), 958-958.
- Bidwell LC, **Palmer RHC**, Heath AC, Madden PAF, Bucholz K, McGeary J, Kollins SH, Knopik VS (2012). ADHD, Conduct Disorder, and Initial Physiological Reactions to cigarettes and alcohol in female adolescents: Evidence for the link between ADHD and risk for tobacco use. Poster presented at the annual meeting of the College on Problems of Drug Dependence, Palm Springs, California.
- McGeary JE, Knopik VS, Hayes JE, **Palmer RH**, Monti PM, Kalman D (2012) Predictors of relapse in a bupropion trial for smoking cessation in recently-abstinent alcoholics: preliminary results using an aggregate genetic risk score. SUBSTANCE ABUSE: RESEARCH AND TREATMENT 6, SART. S8866
- Bidwell LC, **Palmer RHC**, Heath AC, Madden PAF, Bucholz K, McGeary J, Knopik VS. (2012). Common and specific genetic effects on ADHD and Initial Sensitivity to Cigarettes in Female Adolescent Twins. Poster presented at the annual meeting of the Behavior Genetics Association, Edinburgh, Scotland. BEHAVIOR GENETICS 42 (6), 920-920

- **Palmer RH**, Francazio S, McGeary J, Knopik VS. (2011) Systems Genetics of Addiction: A Conceptual Approach Using Alcohol Dependence as an Example. Presented at the 2011 Meeting of the Behavior Genetics Association, Newport, RI. BEHAVIOR GENETICS 41 (6), 930-930
- **Palmer RH**, Young SE, Stallings MC, Corley RP, Hopfer CJ, Knopik CS, Hewitt JK. (2011) Genetics of the Associations between Adolescent Indicators of Behavioral Disinhibition and Young Adult Measures of Alcohol, Tobacco and Other Substance Use Disorders. Presented at the 2011 Meeting of the Behavior Genetics Association, Newport, RI. BEHAVIOR GENETICS 41 (6), 930-930.
- **Palmer RH**, Button TMM, Corley RC, Hopfer CJ, Stallings MC, Hewitt JK. Common Genetic Influences on Vulnerability to Drug Dependence from Adolescence to Young Adulthood. Presented at the 2011 Meeting of the Behavior Genetics Association, Newport, RI. BEHAVIOR GENETICS 41 (6), 929-930
- **Palmer RHC**, Button TMM, Corley RP, Stallings MC, Young SE, Hopfer CJ, Crowley TJ, Hewitt JK. (2009) Developmental etiology of alcohol, tobacco, and cannabis dependence from adolescence to young adulthood. Presented at the 2009 Meeting of the Behavior Genetics Association, Minneapolis, MN. BEHAVIOR GENETICS Vol. 39 No. 6. pp 674.
- **Palmer, RHC**, Corley, RP, Hopfer, CJ, Stallings, MC, Young, SE, Crowley, TJ, Hewitt, JK. Disentangling the Genetic and Environmental Vulnerabilities Underpinning the Risk of Substance Involvement in Young Adulthood: A Classical Twin Design. Presented at the 2008 Meeting of the Behavior Genetics Association. Louisville, KY. BEHAVIOR GENETICS Vol. 38 No. 6 pp 642.
- Hahn ME, **Palmer R**, Schanz N, Symanski K, Tobon K. Individual Differences in Mouse Maternal Retrieval: The Roles of Genotype, Apparatus and an Anxiolytic Agent. Presented at the 2005 Meeting of the Behavior Genetics Association. Hollywood, CA. BEHAVIOR GENETICS Vol. 35 No. 6 pp 803 – 804

## TEACHING

Courses developed and taught (notations: <sup>G</sup> – grad, <sup>U</sup> – undergrad course); includes TAships:

### ***Emory University College of Arts & Sciences***

2019

- <sup>G</sup> **Spring: PSYCH 720: Behavioral Effects of Drugs: Biological Bases.** Revamped version of the 2017 course. Utilized active learning techniques to teach addiction epidemiology and genetics. Students were introduced to the pharmacological mechanisms of drug action, before conducting a deep dive of the literature in order to test and interpret a hypothesis using real data from the MAPme Project.

2018

- <sup>U</sup> **Fall 2018: PSYCH 323: Drugs & Behavior.** Developed my own take on this existing course in the college. This breadth course introduces students to the pharmacological mechanisms of drug action, as well as the sociodemographic, genetic, and behavioral correlates of drug addiction.
- <sup>U</sup> **Spring 2018: PSYCH 190: Research in College Drug Use.** I developed this Freshman Seminar course to promote the engagement of undergraduate students in social science and substance use research on campus. Students learn about the basics of the addiction process, addiction epidemiology in college populations, current intervention/prevention strategies. Students learn basic statistical methods that they use to analyze de-identified

data collected from Emory students and present at research colloquium open to the entire campus.

- <sup>U</sup> **Spring 2018: PSYCH 385/NBB 370 [co-taught with Dr. Irwin Waldman]:** Genetics of Human Behavior. I developed this lecture course to introduce students to the field of behavioral genetics and the methods used to study Mendelian and complex behavioral traits/disorders. Students learn about the basics of genetics and quantitative and molecular genetic approaches before conducting a detailed analysis and description of the state-of-the-science of major health and psychological illnesses.

2017

- <sup>G</sup> **Fall 2017: PSYC 770R: Data Wrangling and Visualization using R.** This course introduces students to programming in R, regression analysis and assumption testing, graphing, and data simulation.
- <sup>U</sup> **Spring 2017: PSYC 720: Behavioral Effects of Drugs [co-taught with Dr. Darryl Neil].** This course introduces graduate students to the neuroscience of drug action, genetics of substance addiction, epidemiology of drug addiction, and clinical therapies.

2016

- No courses taught (per negotiated course release)

### ***Alpert Medical School of Brown University***

*Spring - Summer 2016*

- Statistical training for fellows in data management, statistical programming, and statistical/computational genetics.

### ***William Paterson University***

2013

- Adjunct Professor. Course: Behavior Genetics. William Paterson University, Wayne NJ. Taught quantitative and statistical genetics theory and approaches to undergraduate students. Assisted in mouse laboratory experiment designs and project review. Mentored seniors interested in pursuing a post-graduate degree.

2005

- Teaching Assistant. Course: Human Biology. William Paterson University, Wayne, New Jersey. Professor: Dr. Martin Hahn

2004

- Teaching Assistant. Course: Human Biology. William Paterson University, Wayne, New Jersey. Professor: Dr. Martin Hahn. During the course of the semester, I managed the Thompson Interactive Learning hardware and software tools and designed in-class tests and review sessions for exams.

### ***University of Colorado at Boulder***

2007

- Teaching Assistant. Course: Psych 3102: Introduction to Behavior Genetics. [Instructor: Professor: Dr. Gregory Carey]. Assisted undergraduates to facilitate their understanding of behavioral genetic theories and methods used in studying Mendelian and quantitative traits. Designed and presented a lecture on mouse models of human disorders with complex genetics.

**Guest Lectures***Emory College of Arts & Sciences*

- Mechanisms of Learning [Instructors – Dr. Bauer & Dr. Hampton] (Spring 2019)
- Psych 190: Nature of Evidence [Instructor – Dr. Waldman] (Summer 2017; Fall 2018; Spring 2019)
- Psych 541: Personality & Psychopathology [Instructor – Dr. E. Craighead] (Fall 2017; Fall 2018)

*Brown University*

- Guest Lecturer, Brown University Summer@Brown Course: Genetics taught by Dr. John McGeary. Designed and presented a lecture on the concept of genetic association: How Genes Relate to Behavior/Disease.

## University of Colorado at Boulder

- Guest Lecturer, Psych 3102: Introduction to Behavior Genetics [Instructor: Dr. Christina Hewitt]. Designed and presented a week-long lecture series on the concept of heritability and its application in behavioral research. (Spring 2009)

**MENTORING (Research Education, Professional Development, Career Advising)*****Postdoctoral Fellows***

- Spencer Huggett, PhD (2019-current)
- Whitney Barfield, PhD (2019-current)
- Chelsie Benca-Bachman, PhD (2017-2019) - Dr. Benca-Bachman is now the Associate Director of Research in the Behavioral Genetics of Addiction Laboratory.
- Leslie A. Brick, PhD (2015-2018) - Dr. Brick is now a Research Assistant Professor in the Dept. of Psychiatry and Human Behavior at Brown University. She is the Associate Director of the Quantitative Sciences Program.
- Derrick Morton, PhD (2016-2018) - Dr. Morton, is a FIRST postdoctoral fellow I have mentored in grant writing for a NIH LRP.

***Graduate students****Department of Psychology*

- Lauren Bertin (2017-current)
- Kathleen Martin (2018-current)
  - MA thesis completed May 2019.
- Heather Zesiger (was a co-advised student at Georgia State University Public Health Program)
  - PhD completed May 2018.
  - Dissertation Title 'Student Opioid Misuse in Higher Education'.
  - Dr. Zesiger is currently the Senior Director of Student Engagement at Rollins School of Public Health at Emory University

*Rollins School of Public Health (Applied Practice Experience & Rollins Earn and Learn)*

- Haley Hershey (2019-current)
- Charmaine Scarlett (2019-current)
- Yijin Xiang (2019 - current)

**Undergraduate student mentoring**

- Pamela Romero (Spring 2017-Spring 2018) – Accepted into the Behavioral, Psychiatric, and Statistical Genetics Program at the University of Colorado at Boulder. Advisor: Dr. Marissa Ehringer.
- Andrew Boateng-Poku (Fall 2017-Spring 2018) – Lab Manager for Dr. Aaron Heller at the University of Miami (<http://www.manateelab.org/people/>).
- Madeline Gordon (Fall 2017-Spring 2018): - now an Assistant Teacher at the Windward School (Manhattan campus); applying to developmental psychology PhD programs.
- Victoria Risner (Spring 2017-current): - will remain in the lab as a postbac while applying to med school in 2019.
- Raekwon Malik-Williams (Spring 2017-Summer 2017; graduated) – staff at Emory University's finance office. Offered a Master's position at the Chicago School.
- Nikhil Ramgiri (Spring 2018-current) - Bio 499 (2018-2019)
- Jenani Srijevanthan (Fall 2017-Spring 2018; graduated): Currently a part-time data analyst in the lab.
- Sam Cassidy (Spring 2018-current): MAPme Project Ambassador
- Caroline Catherman (Spring 2018-current): MAPme Project Ambassador
- James Swanson (Spring 2018-current): MAPme Project Ambassador
- Keland Yip (Spring 2018-current): MAPme Project Ambassador
- Sri Ponnazhagan (Spring 2018-current): MAPme Project Ambassador
- Ayushi Agarwal (Spring 2018-current): MAPme Project Ambassador
- Anjali Agarwal (Spring 2018-current): MAPme Project Ambassador
- Hannah Weyland (Spring 2018-Fall 2018): MAPme Project Ambassador
- Maia Amellio (Spring 2018-current): MAPme Project Ambassador
- Skyra Loche (Spring 2018-current): MAPme Project Ambassador

**Volunteers**

- Karlye Phillips (Fall 2017- Spring 2018): Dataset Integration across all laboratory projects. Currently a project coordinator at the Atlanta VA medical center.

**Graduate student committees**

*Faculty Advisory Committees (FAC):* Lauren Bertin (R. Palmer); Kathleen Martin (R. Palmer); Holly Poore (I. Waldman)

*Master's Thesis Committees:* Roberto Espana; Holly Poore (I. Waldman)

*Dissertation Defense Committees:* Joya Hampton (L. Craighead), Katrina Goines (E. Walker)

*Comprehensive Exam Committees:* Holly Poore (I. Waldman); Jennifer Merritt (D. Maney)

**Undergraduate committees**

*Honors Thesis Committees:* Victoria Risner

**SERVICE****(notations: <sup>c</sup> – college, <sup>d</sup> – department, <sup>u</sup> – university):**

Fall 2018 – Spring 2019

- <sup>c, d, u</sup> Campus-wide (Emory & Oxford) MAPme Project: Research & Health Education Outreach Program
- <sup>c</sup> Faculty Governance: Emory College Senate Executive Committee member; Department of Psychology liaison.
- <sup>u</sup> Co-Convener of the Alcohol and Other Drugs (AOD) Policy Committee: Emory's Biennial Review Committee
- <sup>c</sup> Emory College Faculty Science Council Member
- <sup>c</sup> Program in Neuroscience and Behavioral Biology, Faculty
- <sup>d</sup> Interim chair of the department of Psychology technology and website committee
- <sup>d</sup> High-Throughput computing support to department of psychology faculty labs and students
- <sup>c, d</sup> Core Participant in Dr. Lynne Nygaard's (PI) National Science Foundation (NSF Research Traineeship training grant), *NRT-HDR: Harnessing the data revolution for a new science of diversity* (pending funding).
- <sup>d</sup> Participation in Department Vision Statement meeting with department chair (Dr. Brennan)
- <sup>c, d, u</sup> NIH Loan Repayment Program Ambassador to Postdoctoral students and junior faculty
- <sup>d</sup> Undergraduate Psychology Major Advising (Fall 2013-present)
- <sup>c</sup> Undeclared Undergraduate Advising

Fall 2017 – Spring 2018

- <sup>c</sup> University Honor Council Faculty
- <sup>u</sup> Burroughs Welcome Fund – Grant Committee Member
- <sup>c</sup> Undergraduate Research Program: Social Sciences Review Committee Member
- <sup>d</sup> Neuroscience and Animal Behavior Program Faculty Search Committee
- <sup>u</sup> Co-Convener of the Alcohol and Other Drugs (AOD) Policy Committee: Emory's Biennial Review Committee
- <sup>u</sup> Facilitated NIH LRP Program Director's (Dr. Ericka Boone) visit to Emory University School of Medicine.
- <sup>u</sup> Emory College Faculty Science Council Member
- <sup>d</sup> High-Throughput computing support to department of psychology faculty labs and students
- <sup>d</sup> Core Faculty in the renewal of the Mechanism of Learning NIH T32. Dr. Patricia Bauer (PI) 2T32HD071845-06 Mechanisms of Learning Across Development and Species [https://projectreporter.nih.gov/project\\_info\\_details.cfm?aid=9489961&icde=44273291](https://projectreporter.nih.gov/project_info_details.cfm?aid=9489961&icde=44273291).
- <sup>c, d, u</sup> NIH Loan Repayment Program Ambassador to Postdoctoral students and junior faculty
- <sup>c</sup> Program in Neuroscience and Behavioral Biology, Faculty
- <sup>d</sup> Organized the 9<sup>th</sup> Annual Psychology Research Festival
- <sup>d</sup> Undergraduate Psychology Major Advising
- <sup>c</sup> Undeclared Undergraduate Advising

Fall 2016 – Spring 2017

- <sup>c</sup> Emory University Honor Council

- <sup>C</sup> Office of Health Promotion Search Committee for a Public Health Addiction Specialist
- <sup>D</sup> Vision Committee member (Chair: Dr. Phil Wolff)
- <sup>C, D, U</sup> NIH Loan Repayment Program Ambassador to Postdoctoral students and junior faculty
- <sup>D</sup> Undergraduate Psychology Major Advising
- <sup>C</sup> Undeclared Undergraduate Advising