

CURRICULUM VITAE  
ROHAN HUGH CRAIG PALMER, PH.D.

Division of Behavioral Genetics  
Bradley Hasbro Children's Research Center CORO West  
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**EDUCATION**

Undergraduate  
Essex County College, Newark NJ, Biology/Pre-Medicine, A.S. (2001).  
William Paterson University, Wayne NJ, Biology, B.S. (2005); honors degree in Biopsychology.  
Graduate School  
University of Colorado at Boulder, Boulder CO, M.A. (2009), Ph.D. (2010).  
T32 Predoctoral Trainee. (2005-2010).

**POSTGRADUATE TRAINING**

Fellowship  
Department of Psychiatry and Human Behavior (Brown University) and Rhode Island Hospital, Providence, RI.  
T32 Postdoctoral Research Fellow. (2010-2012).

**HONORS AND AWARDS**

1. Graduated Summa cum laude from Essex County College (2001)
2. Graduated Magna cum laude from William Paterson University (2005)
3. Honors Degree in Biopsychology (William Paterson University, 2005)
4. NIMH Pre-doctoral University Fellowship, University of Colorado at Boulder (2005-2010)
5. Student Travel Award, Behavior Genetics Association (2007)
6. Student Travel Award, Behavior Genetics Association (2008)
7. Student Travel Award, Behavior Genetics Association (2009)
8. SREB-AGEP Doctoral Scholar (2008-2009)
9. NIMH Post-doctoral Fellowship, Department of Psychiatry and Human Behavior at Brown University (2010-2012)
10. New Investigator Award Finalist, Rhode Island Hospital - 18<sup>th</sup> Annual Research Celebration (2010)
11. National Institute of Health Loan Repayment Program, NIDA (2011-2013), Title: Genes, Environment and the Development of Drug Abuse and Externalizing Disorders (Grant number: L30 DA032090)

12. National Institute of Health Loan Repayment Program, NCATS (2013-2015), Title: The Relationship between Executive Function, Substance Misuse, and Disinhibitory Psychopathology in Children Differentially Exposed to Tobacco in utero' (Grant number: L30 TR001045)
13. Carl Storm Underrepresented Minority (CSURM) Fellowship (2014): Alcohol & the Nervous System GRC
14. Travel Award, International Society for Biomedical Research on Alcoholism (2014)
15. Executive Committee Member of the Behavior Genetics Association
16. National Institute of Health Loan Repayment Program, NCATS (2015-2017), Title: Identifying Shared and Non-shared Genetic Influences on Alcohol and Drug Dependence in Subjects of European and African Ancestry
17. Brown University Office of Diversity and Multicultural Affairs Travel Award to attend the Association of American Medical Colleges Minority Faculty Career Development Seminar (2015)

### **ACADEMIC APPOINTMENTS**

1. Research Associate, Department of Psychiatry and Human Behavior, Alpert Medical School of Brown University, 06/2012 - 08/2012
2. Adjunct Professor, Department of Biology, William Paterson University, Wayne NJ, 12/2013 – 05/2014
3. Assistant Professor (Research), Department of Psychiatry and Human Behavior, Alpert Medical School of Brown University, 9/2012 – *Present*

### **HOSPITAL APPOINTMENTS**

1. Psychology Fellow, Department of Psychiatry, Rhode Island Hospital. 2010-2012.
2. Research Associate (I), Department of Child and Adolescent Psychiatry, Rhode Island Hospital, 06/2012 - 08/2012
3. Research Associate (II), Department of Child and Adolescent Psychiatry, Rhode Island Hospital, 08/2012 - 2013

### **VOLUNTEER APPOINTMENTS**

1. Research Assistant, Molecular Genotyping Lab at the Providence VA Medical Center. Providence RI, 6/2011 - *Present*

### **MEMBERSHIP IN SOCIETIES**

1. Association for Psychological Science (2007-2009)
2. Behavior Genetics Association (2005-present)
3. Beta Beta Beta National Biological Honor Society (2005-present)
4. Phi Theta Kappa – Alpha Theta Theta Chapter Alumni (2001-present)
5. Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (2009-2010)
6. Research Society on Alcoholism (2011-present)
7. National Institute of Health Loan Repayment Program Ambassador (2011-present)
8. The College on Problems of Drug Dependence (2012-present)
9. International Society for Biomedical Research on Alcoholism (2011-present)
10. International Society of Psychiatric Genetics (2013-present)

## **PUBLICATIONS LIST**

1. 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. (in press Behavior Genetics).
2. Palmer RH, McGeary JE, heath AC, Keller MC, Brick LA, Knopik VS. Shared Additive Genetic Influences on DSM-IV Criteria for Alcohol Dependence in Subjects of European Ancestry. (in press; Addiction).
3. Knopik VS, Heath AC, Marceau K, Palmer RH, McGeary JE, Todorov A, Evans A. Missouri Mothers and Their Children: A family study of the effects of genetics and the prenatal environment. (in press; Twin Research and Human Genetics).
4. 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.
5. 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.
6. Palmer RH, 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
7. 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.
8. 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
9. 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.
10. 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.
11. 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.
12. 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
13. 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.

14. 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: PMCID: PMC3342475.
15. 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

### **PUBLICATIONS UNDER REVIEW**

1. Palmer RH, Nugent NR, Brick LA, Bidwell LC, McGeary JE, Keller MC, Knopik VS. (*under review*). Evidence of shared genome-wide additive genetic effects on vulnerability to drug dependence and interpersonal trauma in a population of substance users. Clinical Psychological Science.
2. Palmer RH, Beevers CG, McGeary JE, Knopik VS (*revise and resubmit*). Evidence of Common and Trait Specific Genetic Influences on Major Depression and Treatment Response: A Multivariate Genetic Study. Clinical Psychological Science.
3. Bidwell LC, McGeary JE, Gray J, Palmer RH, Gray J, Knopik VS, & MacKillop J. (*under review*). Smoking motives as intermediate phenotypes for nicotine dependence in African Americans: Examination in relation to the NCAM1-TTC12-ANKK1-DRD2 cluster, DBH, and COMT. Pharmacology, Biochemistry, and Behavior.
4. Kudinova AY, Deal T, Hueston CM, McGeary JE, Knopik VS, Palmer RHC, & Gibb BE (*under review*). Cross-Species Evidence for the Role of Interleukin-33 in Depression Risk. Brain, Behavior, and Immunity.
5. Pearson R, Palmer RHC, Brick LA, McGeary JE, Knopik VS, Beevers CG. (*under review*). Additive Genetic Effects on Sub-Scales of Major Depressive Disorder. Abnormal Psychology
6. Knopik VS, Marceau K, Palmer RHC, Smith TF, Heath AC (*revise and resubmit*). Maternal smoking during pregnancy and offspring birth weight: A genetically-informed approach incorporating multiple raters. Behavior Genetics.
7. Marceau K, Palmer RHC, Neiderhiser JM, Smith TF, & Knopik VS (*under review*). Passive rGE or developmental gene-environment cascade? An investigation of the role of xenobiotic genes in the association between smoking during pregnancy and child birthweight. Behavior Genetics.
8. Bidwell LC, Palmer RHC, Brick L, Heath AC, Madden PAF, Knopik VS (*revise and resubmit*). A propensity scoring approach to characterizing the effects of maternal smoking during pregnancy on offspring's initial responses to cigarettes and alcohol. Behavior Genetics.
9. Palmer RHC, Bidwell LC, Heath AC, Brick L, Madden PAF, & Knopik VS (*revise and resubmit*). Maternal smoking during pregnancy and offspring externalizing problems: A propensity score approach. Behavior Genetics.
10. Knopik VS, Marceau K, Bidwell LC, Palmer RHC, Smith TF, Todorov A, Evans A, Heath AC (*revise and resubmit*). Smoking during pregnancy and ADHD risk: A genetically-informed, multiple-rater approach. American Journal of Medical Genetics, Part B.

### **BOOKS AND BOOK CHAPTERS**

1. Kreutzer, Jeffrey, DeLuca, John, Caplan, Bruce (Eds.) (2010). Encyclopedia of Clinical Neuropsychology. ISBN: 978-0-387-79947-6. Role: Develop reference entries (e.g., Gene-Environment interaction, Adoption Studies, etc.). See: <http://link.springer.com/search?facet-creator=%22Rohan+Palmer%22> for details.

### **INVITED ORAL PRESENTATIONS**

1. Guest Lecturer, University of Colorado at Boulder. Course: Introduction to Behavior Genetics taught by Professor Gregory Carey. Designed and presented a lecture on mouse models of human disorders with complex genetics (Boulder Campus, 2008).
2. Guest Lecturer, University of Colorado at Boulder. Course: Introduction to Behavior Genetics taught by Professor Christina Hewitt. Designed and presented a week-long lecture series on the concept of heritability and its application in behavioral research. (Boulder Campus, 2008)
3. 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)
4. 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).
5. 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).
6. 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.
7. 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).
8. Bradley Hasbro Children's Research Center Seminar Series (Spring 2012). Title: Pleiotropic Genes and the Liability to Drug Dependence in Teens and Young Adults.
9. Invited Speaker. PIRE Research – RI. Title: Whole Genome Prediction Modeling.
10. 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.
11. Rhode Island Hospital – Division of Behavioral Genetics Seminar Series (May 2013). Title: Caveats in Identifying Genes: "The Case of the Missing Heritability"
12. 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".
13. Rhode Island Hospital – Division of Behavioral Genetics Seminar Series (December 2014). Title: Got Data? Caveats to Leveraging Low/High-Dimensional Genomics Data – Part 1.
14. Rhode Island Hospital – Division of Behavioral Genetics Seminar Series (December 2014). Title: Got Data? Caveats to Leveraging Low/High-Dimensional Genomics Data – Part 2.

## **GRANTS**

### *Ongoing Support*

National Institute of Alcohol Abuse and Alcoholism

K01AA021113-01

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

Role: Principal Investigator

Mentors: Valerie S. Knopik (PhD), John E. McGeary (PhD), Arthur Lander (PhD), Benjamin Raphael (PhD), Andrew Heath (PhD), Ming D. Li (PhD), Charles E. Lawrence (PhD), Robert Hitzemann (PhD)

Status: Funded

Proposed Funding Period: 08/01/12 – 07/31/17

Visit the following link for a copy of the abstract:

*Pending Support*

R01- RAA024162A (Palmer & McGeary)

National Institute on Alcohol Abuse and Alcoholism

Identifying Imaging-based Genetic Correlates of Working Memory as Biomarkers for Alcoholism

Review date: 01/2016

*Completed Support*

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.)

Status: Funded

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 – National Institutes of 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

**UNIVERSITY TEACHING ROLES**

1. Teaching Assistant (2005). Course: Human Biology. William Paterson University, Wayne, New Jersey. Professor: Dr. Martin Hahn
2. Teaching Assistant (2004). 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.
3. Teaching Assistant (2007). Course: Introduction to Behavior Genetics. University of Colorado, Boulder, Colorado. Professor: Dr. Gregory Carey. Assisted undergraduates to facilitate their understanding of behavioral genetic theories and methods used in studying Mendelian and quantitative traits.
4. Adjunct Professor (Spring 2013). 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.

5. Postdoctoral Fellow Mentor (2013-*present*). Rhode Island Hospital - Alpert Medical School of Brown University, Providence RI. Assist in training trainees (Taylor Smith, Leslie Brick) in data management, statistical programming, and statistical/computational genetics.

**POSTDOCTORAL SUPERVISION**

Leslie A. Brick (*current*)