

John Keith Hewitt

CURRICULUM VITAE

PERSONAL INFORMATION

Date and place of birth 14th July, 1952; Hampshire, England

Citizenship United States (naturalized June, 1996)

Marital status Married with four children.

Office address and telephone
Institute for Behavioral Genetics
University of Colorado at Boulder
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Institute for Behavioral Genetics
University of Colorado at Boulder
1480 30th Street
Boulder, CO 80303-0447

EDUCATION

B.Sc. (1st Class Honours) Psychology 1973.
Place: Dept. of Psychology, University of Birmingham. Other subjects taken: Philosophy and Genetics.

M.Sc. Applied Genetics, September 1974.
Place: Dept. of Genetics, University of Birmingham, England.
Research Project: An analysis of data from a twin study of social attitudes.
Supervisor: L.J. Eaves
Professor: J.L. Jinks

Ph.D. 1978 The genetic control of activity, reactivity and learning in a natural population of wild rats (*Rattus norvegicus*).
Place: Institute of Psychiatry, Univ. of London.
Supervisor: D.W. Fulker
Professor: H.J. Eysenck

B.A. Mathematics 1982. Place: Open University (by correspondence).
Specialist courses: Linear Algebra, Abstract Algebra, Statistical Inference.

POSTDOCTORAL TRAINING OR SPECIAL EXPERIENCE

October 1974 - August 1977, Research Worker, Department of Psychology, Institute of Psychiatry, London.

ACADEMIC APPOINTMENTS

June 2002-present, Professor of Psychiatry (Attendant Rank), University of Colorado School of Medicine
July 2001 - present, Director, Institute for Behavioral Genetics

August 1992 - present, Professor of Psychology, and Faculty Fellow of Behavioral Genetics, University of Colorado, Boulder, Colorado, USA.

July 1990 - August 1992, Associate Professor

July 1987 - June 1990, Assistant Professor, Department of Human Genetics, Medical College of Virginia, Richmond, Virginia, U.S.A.

September 1977 - August 1987, Lecturer in Psychology, Department of Psychology, University of Birmingham, England.

VISITING APPOINTMENTS

July 1986 - June 1987, Affiliate Research Assistant Professor (visiting). Department of Human Genetics, Medical College of Virginia, Richmond, Virginia, U.S.A.

September 1985 - June 1986. Visiting Associate Professor, Department of Biology, William Patterson College, New Jersey, U.S.A.

MEMBERSHIPS: SCIENTIFIC, HONORARY AND PROFESSIONAL SOCIETIES

Behavior Genetics Association

American Society of Human Genetics

American Psychological Society

American Association for the Advancement of Science

SPECIAL AWARDS, FELLOWSHIPS, RESEARCH SUPPORT AND OTHER HONORS

Awards

Open Scholarship, Birmingham University, 1970.

Undergraduate Prize, Birmingham University, 1973.

First Class Honors, Birmingham University, 1973.

Fellowships

Bethlehem-Maudsley Research Fellow, 1974-1977.

Empirical research supported by external funds.

Current active support (*Funding is annual direct costs.*)

1 R01 HD050346-01A1(Rhee)

09/01/07-6/30/12

8.3% acad/0.75 acad

\$227,359

NIH/NICHD

Testing a Developmental Model of Conduct Problems

The main goal of this study is to examine existing data from the Colorado Longitudinal Twin Study to test the developmental propensity model, which advances specific and testable hypotheses regarding the causes of conduct problems.

5 R01 EY012562-08 (Hewitt)

09/01/02-08/31/08

10% acad/0.9 acad

\$290,044 (no cost ext)

NIH/NEI

Variance Component Models for Mapping QTLs

The goal of this project is to further extend the methodology of variance components analysis to accommodate more general data structures and models that are of practical importance to the design and analysis of modern genetic studies, and to integrate these into a comprehensive software package.

5 R25 MH019918-15 (Hewitt)

07/01/03-06/30/08

5% acad/0.45 acad

NIH/NIMH

\$144,009

33.3% sum/1.0 sum

Workshop on Methodology of Twin Studies

The major goal of this project is to provide five training and information-sharing workshops for researchers involved in twin and family genetic epidemiology studies wishing to learn the latest methodology for data analysis and experimental design.

5 P60 DA011015-10 (Crowley)

08/15/03-04/30/08

NIH/NIDA

Antisocial Drug Dependence: Genetics

-Administrative/Educational Core A – Boulder (Hewitt)

\$37,563 (sub only)
5% acad/0.45 acad

The major goal of the administrative and educational core is to facilitate interactions among an interdisciplinary group of clinicians, behavioral geneticists, and molecular biologists at the Health Sciences Center and Boulder Campus of the University of Colorado. The educational core also supports a postdoctoral research associate position.

-Component I: Adolescent Drug/Alcohol Dependence:

\$8,863 (sub only)
2.8% acad /0.25 acad

Genetics and Treatment (Stallings)

The major goal of Component I is a whole-genome search for chromosomal loci containing genes influencing early-onset dependence on drugs and antisocial behavior.

-Component IV: Heritable Early Indicators of Risk for

\$157,205
5% acad/0.45 acad

Drug Dependence (Hewitt)

10.4% sum/0.31 sum

The major goal of Component IV is to use an augmented twin study to understand how genes and environmental influences contribute to vulnerability to drug abuse and antisocial behavior as they develop during adolescence. A second wave of assessments will be conducted with 1300 pairs of twins and their siblings 5 years after the initial interview.

5 R01 MH066115-04 (Ross)

01/09/04-12/31/08
3% sum/0.09 sum

NIH/NIMH

Abnormal Eye Movement in Schizophrenia: Genome-Wide Scan

Subcontract to Inst. for Behavioral Genetics (Hewitt)

\$16,928

The purpose of this subcontract is to assist Dr. Randal Ross in conducting extended pedigree and sibling-pair linkage analyses to detect quantitative trait loci that increase risk for schizophrenia.

5 P01 HD031921-13 (Harris)

01/01/06-12/31/10

NIH/NICHD

The National Longitudinal Study of Adolescent Health

Subcontract to Inst. for Behavioral Genetics

Project V: Gene*Environment Contributions to Drug Use and Problem Behavior Trajectories (Hewitt) 10% acad/0.9 acad
 \$ 101,774 (sub only)
 33.3% sum/1.0 sum

This data analysis subproject will examine the developmental trajectories of drug use and related behaviors, including conduct problems and risky sexual behavior.

2 R56 MH063207-06A1 (Hewitt) 06/01/01-05/31/08
 15% acad/1.35 acad
 NIH/NIMH \$323,389
 15% sum/0.45 sum

Executive Functions and Self-Regulation: A Twin Study

This study examines: genetic and environmental contributions to stability and change in EFs during the transition from adolescence to young adulthood; the relations among self-regulation abilities in three domains, as well as the genetic and environmental etiologies of individual differences in these self-regulation abilities in early adulthood; and the relationship between EFs and self-regulation in early adulthood.

Pending: Grants submitted

2 P60 DA011015 (Hewitt - Director of Center) 05/01/08-04/30/13
 NIH/NIDA

Center on Antisocial Drug Dependence: The Genetics of HIV Risk Behaviors

The overall goal of this Comprehensive P60 Center is to contribute to our understanding of the etiology of individual differences in behavioral control or behavioral disinhibition, the relationship of this to drug abuse and the development of dependence, and the role that these play in the propensity for risky behaviors that may result in STDs, including HIV/AIDS.

Core A: The Administrative, Educational, and Ethics Core (Hewitt) \$322,817
 20% acad/1.8 acad

This Core coordinates integrated research and educational activities, and contributes a novel emphasis on the ethical issues of the research. The core ensures: synergy, multidisciplinary involvement, training and education, and an integral consideration of ethical issues in the design, publication, and interpretation of the research. It coordinates the Center Executive Committee and Scientific Advisory Board.

Core B: Data Management, Informatics and Biostatistics (McQueen) \$228,357
 12% acad/1.08 acad

This Core has primary responsibility for essential functions of quality control of data collection, data integration, dissemination, and analysis for the Center in response to the needs of the other Cores and Components. It provides expertise in experimental design and analysis of component studies, with an emphasis on projects involving molecular genetic data, and it develops and applies novel statistical and epidemiological approaches to the Center data.

Component 1: Genetics of Adolescent Antisocial Drug Dependence and HIV-Related Risk Factors (McQueen) \$403,973
 10% acad/0.90 acad

This component will conduct a genome-wide association study on an existing sample of 1000 adolescent cases and 1000 controls with Substance Dependence, Conduct Disorder, and HIV-related risk behaviors. A replication sample of 600 new adolescents recruited from adolescent substance abuse treatment programs and a control sample of 600 adolescents recruited from a large primary care clinic will be collected. This new sample will be assessed with detailed HIV-risk behavior, substance dependence, and conduct disorder measures.

Component 2: Clinical Family and Community

\$462,422

Twin, Family, and Adoption Studies (Stallings)

5% acad/0.45 acad

Component 2: This component will provide crucial information regarding: 1) genetic and environmental influences on substance-related behaviors, antisocial behavior, and HIV-risk behaviors; 2) the generality versus specificity of these influences; and 3) genetic and environmental contributions to developmental persistence of these behaviors. This component will complete a third assessment on the center samples, providing critical information regarding developmental patterns of substance-related behavior, including antisocial behavior and HIV-risk behavior.

1 S10 RR021013-01A2 (Hewitt)

04/01/08-03/31/09

no effort

NIH/NCRR

\$326,690

equip only

Affymetrix GeneChip® Scanner for Genetic Analysis of Complex Traits

This proposal is to buy a GeneChip® Scanner 3000 Targeted Genotyping System from Affymetrix®, together with associated equipment and software. This system will allow multiple investigators, studying the genetics of substance abuse and mental health in both humans and animal models, to design high-throughput genotyping, sequencing, and expression assays targeted for their specific genomic areas of interest.

1 P50 MH079485-01A1 (Banich)

09/01/2007-08/31/2012

NIH/NIMH

IBSC: Determinants of Executive Function and Dysfunction (Banich)**Subcontract to Inst for Behavioral Genetics** (Hewitt)

\$143,525 (sub only)

33.3%sum/1.0 sum

-Project 4: Genetic Mechanisms of Executive Functions

The goal of this project is to use molecular genetic analyses in concert with computational modeling to begin to specify in more detail how the dopamine system regulates three correlated but separable executive functions - inhibiting prepotent response, updating working memory, and shifting mental sets. We will analyze existing molecular and psychometric data on approximately 800 individual twins who were tested on nine index executive tasks at age 17 and were also tested on general cognitive ability and IQ at age 16.

2 R01 MH063207-06A2 (Hewitt)

12/01/07-11/30/12

15%acad/1.35 acad

NIH/NIMH

\$302,402

15% sum/0.45 sum

Executive Functions and Self-Regulation: A Twin Study

This twin study will assess, during the transition from adolescence to young adulthood, genetic and environmental contributions to: stability and change in executive functioning: individual differences in self-regulation; and the relationships between executive functions and self-regulation.

1 R01 DA012845-01A2 (Hewitt)

04/01/2008-03/31/2013

20% acad/1.8 acad

NIH/NIDA

\$268,143

33% sum/1.0 sum

Genetics of Adolescent Antisocial Drug Dependence (COMRAD)

This COMRAD proposal continues a multisite collaboration, initiated under DA 012845, to conduct a prospective study to address critical issues in the genetic epidemiology of adolescent onset antisocial drug dependence. We will complete five year follow-up assessments, examine drug use and antisocial behavior trajectories and their predictors, and we will conduct genome wide association analyses of persistent adolescent-onset antisocial drug dependence.

2 R25 MH019918-16 (Hewitt)

07/01/08-06/30/13

NIH/NIMH

5% acad/0.45 acad

\$125,773

5% sum/0.15 sum

Workshop on Methodology of Twin Studies

The major goal of this project is to provide five training and information-sharing workshops for researchers involved in twin and family genetic epidemiology studies wishing to learn the latest methodology for data analysis and experimental design.

1 R01 (Hill)

7/1/08-6/30/13

NIH/NIDA

\$60,527 (sub only) 5% acad/0.45 acad

Social and Genetic Factors in the Development of Tobacco and Alcohol Dependence (McQueen)

16.7% sum/.50 sum

The primary responsibility of the IBG component is to genotype and analyze the collected DNA. In particular, IBG will be involved in the processing and genotyping of DNA as well as management and statistical analyses of the genotype data.

1 R21 (Gelhorn)

7/1/08-6/30/10

NIH

Item Response Theory-Based Approaches to Longitudinal and Multi-Group Data

5% acad/0.45 acad

Subcontract to Inst. for Behavioral Genetics (Hewitt)

\$29,429 (sub only)

5%sum/0.15 sum

The goal of this project is to use Item Response Theory-based statistical methodology to facilitate the analysis of genetically informative longitudinal data with developmentally appropriate phenotypic measures.

Earlier support

NIH/NIDA "Genetics of Adolescent Antisocial Drug Dependence," Sub-component to the Inst. for Beh. Genetics, DA 012845, 09/15/00-02/28/06, Co-Investigator, \$75,377, 16.5% summer effort

NIH/NIAAA-"NYS Family Study: Problem Alcohol Use and Problem Behavior," Sub-component to the Inst. for Behav. Genetics, AA 011949, 09/30/00-08/31/05, Principal Investigator, \$213,364, 6.67% academic year effort

NIH/NIAAA-"Alcohol Dependence: Integrating Genetic & fMRI Methods," AA 011473, 05/05/05-06/30/10, Co-Investigator, \$330,505, 5% academic year effort (Grant transferred to New Mexico when PI moved.)

NIH/NIDA-"Progress of craving and addiction: Genetic factors," DA14642, 12/01/01-11/30/06, Co-Investigator, \$250,000

NIH/NIAAA- "NYS Family Study: Problem Alcohol Use and Problem Behavior," AA11949, 09/30/00-08/31/06, Co-Principal Investigator, annual direct costs \$940,896 (no cost extension).

NIH/NICHD-"Determinants of Behavioral Development in Children," HD 010333, 06/01/03-05/31/07, Co-Investigator, \$244,145, 16.7% summer effort

NIH/NIAAA-"Genetic Association and Stratification," AA 014250, 09/30/03-08/31/06, Co-Investigator, \$125,000, 5% academic year effort and 5% summer effort

NIH/NICHD-"Behavioral Genetic Analysis of Adolescent Health Risk," Sub-component to the Inst. for Behav. Genetics, HD 031921, 07/01/02-01/31/04, Principal Investigator, \$105,314, 5% academic year effort & 5% summer effort

NIH/NICHD-"Research Training-Developmental Behavioral Genetics," Competitive Renewal, 2732HD07289, 09/01/00-04/30/05, Principal Investigator, annual direct costs \$169,951

NIH/NIA-"Biometrical Analysis of Personality in Adulthood," AG 17949, 04/01/00-03/31/03, Co-Principal

Investigator, annual direct costs \$75,000

NIMH--"Transition into Early Adolescence," MH43899 (renewal), 03/01/00-11/30/03, Principal Investigator, annual direct costs \$205,682

John D. and Catherine T. MacArthur Foundation--"Family Influences on Behavioral Development," 99-59585 HCD, 11/01/99-12/31/01, Principal Investigator, \$42,000

NIH/NEI--"Variance Components Models for Mapping QTLs," EY 12562, 12/07/98-11/30/02, Principal Investigator, annual direct costs \$186,133, 15% academic year effort

NIMH--"Workshop on Methodology of Twin Studies," MH19918, (renewal), 09/01/98-08/31/03, Principal Investigator, \$85,203

NIH/NICHD--"Nature and Nurture in Social Demography: An Adoption Study," HD 36773, 08/01/98-05/31/03, Co-Investigator, \$209,659

NICHD--"Determinants of Behavioral Development in Children," HD10333, (competitive renewal), 06/01/98-05/31/03, Co-Investigator, \$215,776

The William T. Grant Foundation--"Origins of Successful and Unsuccessful Transitions to Adulthood: The Colorado Adoption Project (CAP)," 98162094, 06/01/98-05/31/01, Principal Investigator, \$109,368

NIDA--"Antisocial Drug Dependence: Genetics and Treatment," DA11015, 08/01/97-06/30/02:

"Component I: Adolescent Drug/Alcohol Dependence: Genetics and Treatment," Principal Investigator, Boulder Component, \$49,732 (sub only), 5% academic year effort

"Component IV: Heritable Early Indicators of Risk for Drug Dependence," Principal Investigator, \$173,136 (sub only)

"Administrative/Educational, Core A, UCB" Co-Investigator, \$24,347

"Genetics and Treatment, Assessment Core B, UCB" Principal Investigator, \$19,554

Veteran's Administration, Research Center for Basic and Clinical Studies of Alcoholism--"Human Genetics Core" and "Heritable Early Indicators of Alcohol Abuse" components, V554P-3828/3829, 07/1/96-03/01/99, Principal Investigator, \$76,500 (sub only)

NICHD--"A Twin/Adoption Study of Development in Middle Childhood," HD 18426-15, 06/01/96-05/31/99, Co-Investigator, \$44,436 (sub only)

NIMH--"Workshop on Methodology of Twin Studies," MH19918, 09/01/95-08/31/98, Principal Investigator, \$61,914

NIMH--"Transition into Early Adolescence: A Twin/Adoption Study," MH43899, 12/01/94-11/30/99, Principal Investigator, \$260,437

NIMH--"Adolescent Behavioral Development: A Twin Study," MH45268, (renewal) 05/01/94-04/30/99, Principal Investigator (PI-ship transferred to L.J. Eaves following my relocation to Colorado), annual direct costs \$548,638 rising to \$758,569. Priority score 117 in top 3%, 1989-94. 50% effort. Current effort, 15% academic year, with L.J. Eaves PI, subcontracted through University of Colorado to Hewitt, approx \$125,000 over five years, \$26,250 total, \$18,293 direct (sub only)

John D. and Catherine T. MacArthur Foundation--"MacArthur Longitudinal Twin Study: A Proposal to Study Individual Differences in Adaptation Processes and Outcomes at Seven Years," 93-24177A, 07/01/93-06/30/00, Principal Investigator, \$271,349

NICHD--"Determinants of Behavioral Development in Children," HD10333, 06/01/93-05/31/98, Co-Investigator, \$171,257

NIDA--"Adolescent Substance Abuse and Their Families," DA05131, Component 2 (PI:Fulker), Drug Abuse Research Center (PI:Defries), 1993-1997, Hewitt Co-Investigator, total direct costs \$607,082.

NIMH--"Workshop on Methodology of Twin Studies," MH19687, 09/92-08/94, Principal Investigator, annual direct costs \$40,000

Carman Trust for Scientific Research--"Genetics and Development of Adolescent Mental Health," Principal Investigator, PI-ship transferred to J. Meyer following my relocation to Colorado in 1992, annual direct costs \$34,000.

NIMH--"Workshop on Twin Methodology," MH19392, 1990--short term training grant, Principal Investigator, (Priority Score in top 5%) cost \$23,359

NIAAA--"Personality and Clinical Psychobiology: Genetics," AA08672, 1990-1994, 25% effort, Principal Investigator, annual direct costs \$204,773

NHLBI--"Childhood Passive Smoking: Cohort Study of Cardiac Risk," HL38878, 04/01/89-94, Co-Investigator, annual direct costs \$75,027

NHLBI--"Longitudinal Twin Study: Cohort Study of Blood Pressure," HL31010, 08/88-07/93, Co-Investigator, annual direct costs \$460K

NIA--"Genetic Models of Development and Aging," AG04954, (renewal), 07/88-06/93, Co-Investigator, annual direct costs \$104K

NIGM--"Resolving Power of Kinship Analysis for Genetic Research," GM30250, 02/86-01/91, Co-Investigator, annual direct costs \$62K

Neuropsychological investigations of children at high risk for schizophrenia: extension. Mental Health Foundation support, 1986. Stlg 5177.

During the years 86-88, I was an investigator for NIH grants to study Genetic Models of Development and Aging (AG-04954, 7/84 - 6/88; Annual support \$49,211), Biological and Cultural Determinants of Alcohol Consumption (AA-06781, 8/85 - 7/89; Annual support \$95,168), Genetic and environmental influences on anxiety and depression (MH-40828, 2/86 - 1/90; Annual support \$396,181), Resolving Power of Kinship Analysis for Genetical Research (GM-30250, 2/86 - 1/91; Annual support \$75,115).

NIAAAB"Biological and Cultural Determinants of Alcoholism," AA06781, 08/85-07/89, Co-Investigator, annual direct costs \$116K

Genetic and environmental analysis of cardiac reactivity and hypertension. MRC project grant jointly with Drs. D. Carroll (PI), K. Last and Professor J.L. Jinks. 1984-1987. Stlg 88,627.

Neuropsychological investigations of abnormal interhemispheric integration and anomalous lateralization of function in children at high risk for schizophrenia. Research grant from Mental Health Foundation. 1984-1986. Stlg 22,447.

Genetic and environmental determinants of cardiac reactivity and hypertension. Supported by project grant from the (British) Medical Research Council, 1982-1983, jointly with Dr. Carroll (PI) and K. Last. Stlg 8,526

MAJOR COMMITTEES and HONORS

Member, Conference Committee for 1983 Behavior Genetics Association meeting.

Member of the Committee of the Psychobiology Section of the British Psychological Society 1983-1985.

Member of the Publication and Communications Committee of the Behavior Genetics Association, 1984-1987. Co-organizer, 3rd William Patterson College Symposium on Social Behavior: Developmental behavior genetics in an evolutionary context. November 1986.

Elected Secretary to the Behavior Genetics Association, 1989-1992.

Organizing committee 2nd, 3rd, 4th, 5th and 6th International Workshop on Twin Methodology. Leuven, Belgium, September, 1989, 1991; Boulder, Colorado, July, 1990, spring, 1993, winter 1994.

Emotion and Personality Review Committee, National Institute of Mental Health, 1992-1994.
Chairman, Professional Training Subcommittee of the Behavior Genetics Association 1992-1995.
Epidemiology Review Committee, National Institute of Mental Health, 1994-1997.
President-Elect, Behavior Genetics Association, 1999-2000.
President, Behavior Genetics Association, 2000-2001.
Chair, APA working group on genetics research issues, 2002-present.

OTHER SIGNIFICANT SCHOLARLY OR RESEARCH EXPERIENCE

Doctoral and postdoctoral supervision

Genetic architecture of courtship, courtship modification, conditioning and activity in Drosophila melanogaster.
M.F. Collins, 1980-1983, Ph.D. awarded 1983
Dr. Collins took up an SERC postdoctoral fellowship in my department and our collaborative research in this area continued until January 1985.

Interhemispheric transfer deficits in children at risk for schizophrenia
S. Hallett, 1983-1987, Ph.D. awarded 1987

Familial aspects of hypertension

Jesus, 1984-88 (supervised jointly with Dr. D. Carroll), Ph.D. awarded 1988.

Development of interhemispheric transfer deficits in children at risk for schizophrenia
D. Quinn, 1985-1986

Genetic and environmental influences on smoking and motives for smoking
L. Gynther, Institute for Behavioral Genetics, 1992-94, Ph.D. awarded

Michael Stallings (postdoctoral fellow, 1993-94)

Chandra Reynolds (postdoctoral fellow, 1994-95)

Marianne Wambolt, MD (postdoctoral fellow, 1997-2002) (Mentored Clinical Scientist; genetic and social influences on youth health behavior.)

Bo Bishop (postdoctoral fellow, 1998-2001)

Soo Rhee (postdoctoral fellow, 1999-2001)

A twin study of genetic and environmental influences on anxiety during childhood and adolescence
T. Topolski, Institute for Behavioral Genetics, 1993-97, Ph.D. awarded

Life events and depressed mood

J. Lessem, Institute for Behavioral Genetics, 1993-1999, Ph.D. awarded

Temperament through middle childhood

Carol van Hulle, Institute for Behavioral Genetics, 1996-2001, Ph.D. awarded

Steve Wilson (doctoral student, 1993-2002, incomplete)

Elise Eller (postdoctoral fellow, 2001-2002)

Genes, development, and externalizing behaviors during middle childhood and adolescence
Brett Haberstick, Institute for Behavioral Genetics, 2000-05, Ph.D. awarded

Naomi Friedman (postdoctoral fellow, 2002-2005)

Tanya Button (postdoctoral fellow, 2005 - 2006)

Christian Hopfer, M.D. (K08, Mentored Clinical Scientist, 1999-2004)

David Timberlake (postdoctoral fellow, 2003 - 2006)

Soo Rhee (KO1, Mentored Scientist, 2001-2006)
Susan Young (KO2, Mentored Scientist, 2001-2006)

Current students and fellows, Institute for Behavioral Genetics, University of Colorado:

Joe Sakai , MD (K08, Mentored clinical scientist, 2005-2010)
Jason Boardman, PhD (K01, Mentored Scientist, 2005-2010)
Rohan Palmer (doctoral student, 2005 -)
Angela Brant (doctoral student, 2007-)

Committees for: Medical College of Virginia/Virginia Commonwealth University

Sally Hunsberger (Biostatistics Ph.D.)
Jennifer Stainer (Human Genetics Ph.D.)
Debbie Bowles (Human Genetics Ph.D.)
Robert DaMensah (Biostatistics Ph.D.)
Judy McLaughlin (Human Genetics, Ph.D.)
Laura Truskowski (Biostatistics, M.S.)
Audrey Schuler (Social Work, Ph.D.)
Marianne Van Den Bree (Human Genetics, Ph.D.)
Jeanine Gau (Psychology, Ph.D.)

University of Colorado

Stacey Cherny (Psychology, Ph.D.)
Larry Rodriguez (Psychology, Ph.D.)
Stephanie Schmitz (Psychology, Ph.D.)
Maricela Alarcón (Psychology, Ph.D.)
Donna Miles (Psychology, Ph.D.)
Valerie Knopik (Psychology, Ph.D.)
Marcie Chambers (Psychology, Ph.D.)
Javier Gayán (Psychology, Ph.D.)
Naomi Freedman (Psychology, Ph.D.)
Erin Bissel (EPOB, Ph.D.)
Robert Buchwald (EPOB, Ph.D.)
Heather Gelhorn (Psychology, Ph.D.)
Noa Heiman (Psychology, Ph.D.)
Laura Sobik (Psychology, Ph.D.)
Rohan Palmer (Psychology, Ph.D.)
Angela Brant (Psychology, Ph.D.)
Robert Jay Schulz-Heik (Psychology, Ph.D.)

Teaching experience:

The details of the formal courses I have taught are given below where it will be clear that apart from my research interests in behavioral and quantitative genetics, I have also developed teaching in statistics, measurement and design both at the Undergraduate and Post-graduate level.

Teaching chronology:

Demonstrator to Introductory Statistics Course. Extramural Department, University of Birmingham, 1974.

Tutor to Open University Summer School, Quantitative Genetics, 1977, 1978; Introduction to Psychology, 1981, 1982, 1983.

1977 - 1985

Lecturer in Introductory Statistics, Psychometrics. Personality Measurement, Research Methodology and Behavior Genetics on undergraduate courses in the Department of Psychology, University of Birmingham.

Lecturer in Quantitative Methods and Research Methodology on postgraduate course in Clinical Psychology and Doctoral Programme, Department of Psychology, University of Birmingham.

Tutor to Psychological Measurement course, Extramural Department, University of Birmingham, 1979.

Tutor to Introduction to Statistics for Psychology and Education, Extramural Department, University of

Birmingham, 1982.

Tutor to Research Methods in Education and Social Science at Undergraduate and Postgraduate Level, Open University, 1983, 1984, 1985.

1985-86

Lecturer in Behavior Genetics (course BIPY 475) and Genetics of Psychopathology (course BIPY 399) to Biopsychology Honours Programme and Lecturer in Research Methods (course BID 533) to Graduate Program in Biology. Department of Biology, William Patterson College of New Jersey, U.S.A.

1986-88

Contributing lecturer to courses 501 Introduction to Human Genetics, 519 Quantitative Genetics and 520 Principles of Human Behavior Genetics (course organizer) in Department of Human Genetics, Virginia Commonwealth University, Richmond, VA, USA.

1988-92

As 1986-88, plus GN502 Advanced Human Genetics and M1 Human Genetics. Fall 1992, contributing lectures to Quantitative Human Sociobiology.

1992-93

Genetics and Developmental Psychopathology (Psychology 4525).
Contributing faculty for Introduction to Behavior Genetics (Psychology 4102)

1993-94

Seminar: Behavior Genetics	(Psychology 7102)
Behavioral Genetics	(Psychology 4102/5102)

1994-95

Seminar: Behavioral Genetics	(Psychology 7102)
Concepts in Behavioral Genetics	(Psychology 5112)
Behavioral Genetics	(Psychology 4102/5102)

1995-96

Seminar: Behavioral Genetics	(Psychology 7102)
Behavioral Genetics	(Psychology 4102/5102)
Behavioral Genetics Lab	(Psychology 4112)

1996-97

Seminar: Behavioral Genetics	(Psychology 7102)
Behavior Genetics	(Psychology 4102/5102)
Behavior Genetics Lab	(Psychology 4112)

1997-98

Behavioral Genetics Lab	(Psychology 4112)
Behavioral Genetics	(Psychology 4102/5102)
Concepts in Behavioral Genetics	(Psychology 5112)
Biometrical Methods/Behav Genetics	(Psychology 5242)

1998-99

Seminar: Behavioral Genetics	(Psychology 7102)
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1999-2000

Biometrical Methods/Behav Genetics	(Psychology 5242)
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Fall 2000

Concepts in Behavioral Genetics, Computer Systems	(Psychology 5112)
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Spring 2001

Concepts in Behavioral Genetics,	(Psychology 5112)
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Benchmark Papers in Behavior Genetics

Fall 2001

Biometrical Methods/Behav. Genetics (Psychology 5242)

Fall 2002

Research in Behavioral Genetics (Psychology 7012)

Spring 2003

Seminar: Behavioral Genetics (Psychology 7102)

Fall 2003

Biometrical Genetics (Psychology 5242)

Spring 2005

Seminar: Behavioral Genetics (Psychology 7102)

Fall 2006

Seminar: Behavioral Genetics (Psychology 7102)

Spring 2007

Concepts in Behavioral Genetics (Psychology 7102)

Spring 2008

Concepts in Behavioral Genetics (Psychology 7102)

Workshops and Conferences: Teaching and Organization

Contributing Faculty for the Second International Course on Twin Methodology, Leuven, Belgium, Sept. 1989,

the Third International Workshop on Twin Methodology, Boulder, Colorado, July 1990,

the Fourth International Workshop on Twin Methodology, Leuven, Belgium, Sept. 1991,

the Fifth International Workshop on Twin Methodology, Boulder, Colorado, May, 1992,

the Sixth International Workshop on Twin Methodology, Boulder, Colorado, March, 1994,

the Seventh International Workshop on Twin Methodology, Helsinki, Finland, Sept., 1995,

the Eighth International Workshop on Twin Methodology, Boulder, Colorado, March, 1996.

Host organizer and faculty of Ninth International Workshop on Twin Methodology, Boulder, Colorado, March, 1997.

Host organizer and faculty of Tenth International Workshop on Twin Methodology, Boulder, Colorado, March, 1998.

Contributing faculty to the NATO Advanced Study Institute on Statistical Methods for Genetic Studies, Eleventh International Workshop on Twin Methodology, Leuven, Belgium, Sept., 1998.

Host organizer and faculty of Twelfth International Workshop on Twin Methodology, Boulder, Colorado, March, 1999.

Host organizer and faculty of Thirteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2000.

Program chair, 30th Annual Meeting, Behavior Genetics Association, June 28-July 1, 2000, Burlington, VT.

Host organizer of Fourteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2001.

Host organizer and faculty of Fifteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2002.

Host organizer and faculty of Sixteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2003.

Host organizer and faculty of Seventeenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2004.

Host organizer and faculty of Eighteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2005.

Host organizer and faculty of Nineteenth International Workshop on Twin Methodology, Boulder, Colorado, March 2006.

Host organizer and faculty of Twentieth International Workshop on Twin Methodology, Boulder, Colorado, March 2007.

Host organizer and faculty of Twenty-first International Workshop on Twin Methodology, Boulder, Colorado, March 2008.

Professional duties related to research

Editor in Chief: Behavior Genetics (July, 2001 - present).

Chair, APA Working Group on Genetic Research (Nov., 2002-present).

I serve as referee for papers submitted to Nature, Animal Behavior, British Journal of Psychology, British Journal of Addiction, Quarterly Journal of Experimental Psychology, Heredity, Genetic Epidemiology, Journal of Gerontology: Psychological Sciences, Journal of Comparative Psychology, Psychological Science, Journal of Studies on Alcohol, Appetite, Drug and Alcohol Dependence.

Invited member of NIMH advisory workshop on "Social regulation, basic behaviors, and developmental transition: A behavioral genetics perspective" (Sept., 1990).

Invited member of NIMH advisory workshop on Childhood and Adolescent Mental Health, Nov. 1990.

Invited member of NIAAA working group on "Longitudinal studies of children at high risk for alcohol problems" (May 1990).

I have regularly reviewed grant proposals for NIH and participate in site visits on an ad hoc basis.

Invited presenter: NIH workshop on "Research Priorities in Eating Disorders."

Regular committee member, Emotion and Personality IRG, NIMH, 1992-94.

Regular committee member, Epidemiology and Genetics IRG, NIMH, 1994-1997.

Director of the Animal Psychology Laboratory, Department of Psychology, University Birmingham, 1980-83.

I have read papers or presented abstracts at the following conferences or institutions:

Association for the Study of Animal Behavior, Sheffield, England, 1978.

Population Genetics Group, Sheffield, England, 1978.

Behavior Genetics Association, Connecticut, U.S.A., 1979.

Behavior Genetics Association, New York, U.S.A., 1981.

Miami Symposium on Social Behavior, Ohio, U.S.A., 1981.

Dept. of Biology, University of Chicago, Illinois, U.S.A., 1981.

Dept. of Psychology, Purdue University, U.S.A., 1981.

Institute for Behavioral Genetics, Colorado, U.S.A., 1981.

Eugenics Society, London, England, 1983.

Behavior Genetics Association, London, England, 1983.

Dept. of Psychology, Ulster Polytechnic, Belfast, N. Ireland, 1983.

Dept. of Genetics, Trinity College, Dublin, Ireland, 1983.

British Psychological Society, London, 1983.
 Behavior Genetics Association. Bloomington, Indiana, U.S.A., 1984.
 Department of Psychology, University of Colorado, Boulder, Colorado, U.S.A., 1985.
 Department of Psychology, University of Minnesota, Minneapolis, Minnesota, U.S.A., 1985.
 Department of Human Genetics, Medical College of Virginia, 1986.
 Department of Biology, Wesleyan University, Connecticut, U.S.A., 1986.
 Behavior Genetics Association, Honolulu, Hawaii, U.S.A., 1986.
 Department of Pediatric Cardiology, Medical College of Virginia, 1986.
 3rd William Paterson College Symposium on Social Behavior, NJ, 1986.
 Department of Psychology, University of Colorado, 1987.
 2nd International Conference on Quantitative Genetics, Raleigh, NC, 1987.
 Department of Human Genetics, Medical College of Virginia, 1988.
 Behavior Genetics Association, Nijmegen, Netherlands, 1988.
 Society for Psychophysiological Research, San Francisco, 1988.
 NIMH conference on genetic approaches to understanding health damaging behaviors. Philadelphia, 1988.
 Western Psychiatric Institute and Clinic, Pittsburgh, 1988.
 McArthur Foundation conference on Health and Stress, Philadelphia, 1988.
 Behavior Genetics Association, Charlottesville, VA, 1989.
 6th International Congress on Twin Studies, Rome, Italy, 1989.
 Society for Behavioral Medicine, Chicago, Illinois, 1990.
 Behavior Genetics Association, Aussois, France, 1990.
 Institute for Behavioral Genetics, Colorado, USA, 1990.
 Institute for Social Research, University of Michigan, Ann Arbor, USA. 1990.
 Dept. of Biostatistics, Medical College of Virginia, 1991.
 Dept. of Human Genetics, Medical College of Virginia, 1991.
 Behavior Genetics Association, St. Louis, Missouri, 1991.
 Department of Psychology, University of Colorado at Boulder, 1992.
 Department of Human Genetics, Medical College of Virginia, 1992.
 Quantitative Group, Department of Human Genetics, Medical College of Virginia, 1992.
 Behavior Genetics Association, Boulder, CO, 1992
 American Psychological Association, Washington, DC, 1992.
 Behavior Genetics Association, Sydney, Australia, 1993.
 World Congress on Psychiatric Genetics, New Orleans, 1993.
 Behavior Genetics Association, Barcelona, 1994.
 International Congress on Twin Studies, Richmond, VA, 1995.
 Behavior Genetics Association, Richmond, VA, 1995.
 FASEB conference: Genetic and behavioral influences on nutrient metabolism and obesity; Copper Mountain, CO, 1995.
 Research Priorities in Eating Disorders, NIH workshop, New York, 1996.
 Behavior Genetics Association, Pittsburgh, PA, 1996.
 Behavior Genetics Association, Toronto, Canada, 1997.
 Behavior Genetics Association, Stockholm, Sweden, 1998.
 International Society for Twin Studies, Helsinki, 1998.
 Behavior Genetics Association, Vancouver, Canada, 1999.
 NIH Statistical Genetics Initiative Workshop, Half Moon Bay, 1999.
 Behavior Genetics Association, Burlington, VT, 2000.
 Developmental Psychobiology Research Group, Denver, CO, 2001.
 FCDEF, University of Porto, Portugal, 2001.
 Lyon-Voorhees Lecture, UCHSC, 2001.
 Invited plenary lecture, College on Problems of Drug Dependence, Scottsdale, AZ, 2001.
 Presidential Address, Behavior Genetics Association, Cambridge, UK, 2001.
 Behavioral and Social Sciences Seminar Series, NIH, 2002.
 Behavior Genetics Association, Chicago, 2003.
 World Congress on Psychiatric Genetics, Quebec City, 2003.
 American Society of Criminology, Denver, 2003.
 Behavior Genetics Association, Aix-en-Provence, 2004
 Behavior Genetics Association, Los Angeles, 2005
 Behavior Genetics Association, Storrs Connecticut, 2006
 Research Society on Alcoholism, Baltimore, 2006
 Secretary of Health and Human Services Advisory Committee on Genetics, Health, and Society,

Baltimore, MD, 2006

Institute for Behavioral Sciences, University of Colorado, Boulder, Colorado, 2007

Neuropsychology Research Group, University of Denver, Denver, Colorado, 2007

Developmental Psychobiology Research Group, University of Denver and Health Sciences Center, Denver, Colorado, 2007

Behavior Genetics Association, Amsterdam, 2007

PUBLICATIONS (in reverse chronological order)

2008

Faith, M.S., Rhea, S.A., Corley, R.P., & Hewitt, J.K. (2008). Genetic and shared environmental influences on children's 24-h food and beverage intake: Sex differences at age 7 y¹⁻³. *American Journal of Clinical Nutrition* [Epub ahead of print]

Zeiger, J.S., Haberstick, B.C., Schlaepfer, I., Collins, A.C., Corley, R.P., Crowley, T.J., Hewitt, J.K., Hopfer, C.J., Lessem, J., McQueen, M.B., Rhee, S.H., & Ehringer, M.A. (2008). The neuronal nicotinic receptor subunit genes (CHRNA6 and CHRN3) are associated with subjective responses to tobacco. *Human Molecular Genetics*, 14(5), 724-734.

2007

Button, T.M., Corley, R.P., Rhee, S.H., Hewitt, J.K., Young, S.E., Stallings, M.C. (2007). Delinquent peer affiliation and conduct problems: A twin study. *Journal of Abnormal Psychology*, 116(3), 554-564.

Button, T.M., Rhee, S.H., Hewitt, J.K., Young, S.E., Corley, R.P., Stallings, M.C. (2007). The role of conduct disorder in explaining the comorbidity between alcohol and illicit drug dependence in adolescence. *Drug and Alcohol Dependence*, 87(1), 46-53.

Ehringer, M.A., Cleg, H.V., Collins, A.C., Corley, R.P., Crowley, T., Hewitt, J.K., Hopfer, C.J., Krauter, K., Lessem, J., Rhee, S.H., Schlaepfer, I., Smolen, A., Stallings, M.C., Young, S.E., Zeiger, J.S. (2007). Association of the neuronal nicotinic receptor beta2 subunit gene (CHRN2) with subjective responses to alcohol and nicotine. *American Journal of Medical Genetics, B Neuropsychiatric Genetics*, 144B(5), 596-604.

Friedman, N.P., Haberstick, B.C., Willcutt, E.G., Miyake, A., Young, S.E., Corley, R.P., Hewitt, J.K. (2007). Greater attention problems during childhood predict poorer executive functioning in late adolescence. *Psychological Science*, 18(10), 893-900.

Haberstick, B.C., Timberlake, D., Ehringer, M.A., Lessem, J.M., Hopfer, C.J., Smolen, A., Hewitt, J.K. (2007). Genes, time to first cigarette and nicotine dependence in a general population sample of young adults. *Addiction*. 102(4), 655-665.

Haberstick, B.C., Timberlake, D., Hopfer, C.J., Lessem, J.M., Ehringer, M.A., Hewitt, J.K. (2007). Genetic and environmental contributions to retrospectively reported DSM-IV childhood attention deficit hyperactivity disorder. *Psychological Medicine* 25,1-10.

Haberstick, B.C., Timberlake, D., Smolen, A., Sakai, J.T., Hopfer, C.J., Corley, R.P., Young, S.E., Stallings, M.C., Huizinga, D., Menard, S., Hartman, C., Grotzinger, J., Hewitt, J.K. (2007). Between- and within-family association test of the dopamine receptor D2 Taq1A polymorphism and alcohol abuse and dependence in a general population sample of adults. *Journal of Studies on Alcohol and Drugs*, 68(3), 362-370.

Hopfer, C.J., Lessem, J.M., Hartman, C.A., Stallings, M.C., Cherny, S.S., Corley, R.P., Hewitt, J.K., Krauter, K.S., Mikulich-Gilbertson, S.K., Rhee, S.H., Smolen, A., Young, S.E., Crowley, T.J. (2007). A genome-wide scan for loci influencing adolescent cannabis dependence symptoms: evidence for linkage on chromosomes 3 and 9. *Drug and Alcohol Dependence*, 89(1), 34-41.

Rhee SH, Cosgrove VE, Schmitz S, Haberstick BC, Corley RC, Hewitt JK. (2007). Early childhood temperament and the covariation between internalizing and externalizing behavior in school-aged children. *Twin Research and Human Genetics*, 10(1), 33-44.

Rhee, S.H., Neale, M.C., Corley, R.C., Hewitt, J.K. (2007). The inclusion of measured covariates in the Neale and Kendler model fitting approach. *Behavior Genetics*, 37(2), 423-32.

Sakai, J.T., Hopfer, C.J., Hartman, C., Haberstick, B.C., Smolen, A., Corley, R.P., Stallings, M.C., Young, S.E., Timberlake, D., Hewitt, J.K., Crowley, T.J. (2007). Test of association between TaqIA A1 allele and alcohol use disorder phenotypes in a sample of adolescent patients with serious substance and behavioral problems. *Drug and Alcohol Dependence*, 88(2-3), 130-7.

Sakai, J.T., Lessem, J.M., Haberstick, B.C., Hopfer, C.J., Smolen, A., Ehringer, M.A., Timberlake, D., Hewitt, J.K. (2007). Case-control and within-family tests for association between 5HTTLPR and conduct problems in a longitudinal adolescent sample. *Psychiatric Genetics*, 17(4), 207-214.

Schlaepfer, I.R., Clegg, H.V., Corley, R.P., Crowley, T.J., Hewitt, J.K., Hopfer, C.J., Krauter, K., Lessem, J., Rhee, S.H., Stallings, M.C., Wehner, J.M., Young, S.E., Ehringer, M.A. (2007). The human protein kinase C gamma gene (PRKCG) as a susceptibility locus for behavioral disinhibition. *Addiction Biology* 12(2), 200-209.

Subbarao, A., Rhee, S.H., Young, S.E., Ehringer, M.A., Corley, R.P., Hewitt, J.K. Common Genetic and Environmental Influences on Major Depressive Disorder and Conduct Disorder. *J Abnorm Child Psychol*. 2007 Oct 27; [Epub ahead of print]

Timberlake, D.S., Haberstick, B.C., Hopfer, C.J., Bricker, J., Sakai, J.T., Lessem, J.M., Hewitt, J.K. (2007). Progression from marijuana use to daily smoking and nicotine dependence in a national sample of U.S. adolescents. *Drug and Alcohol Dependence*, 88(2-3), 272-281.

Timberlake, D.S., Hopfer, C.J., Rhee, S.H., Friedman, N.P., Haberstick, B.C., Lessem, J.M., Hewitt, J.K. (2007). College attendance and its effect on drinking behaviors in a longitudinal study of adolescents. *Alcoholism: Clinical and Experimental Research*, 31(6), 1020-1030.

2006

Bricker, J.B., Stallings, M.C., Corley, R.P., Wadsworth, S.J., Bryan, A., Timberlake, D.S., Hewitt, J.K., Caspi, A., Hofer, S.M., Rhea, S.A., DeFries, J.C. (2006). Genetic and environmental influences on age at sexual initiation in the Colorado Adoption Project. *Behavior Genetics*, 36(6), 820-832.

Button, T.M.M., Corley, R.P., Rhee, S.H., Stallings, M.C., Young, S.E., Hewitt, J.K. (2006). Examination of the causes of covariation between conduct disorder and vulnerability to drug dependence. *Twin Research and Human Genetics*, 9(1), 38-45.

Ehringer, M.A., Rhee, S.H., Young, S., Corley, R., & Hewitt, J.K., (2006). Genetic and environmental contributions to common psychopathologies of childhood and adolescence: A study of twins and their siblings. *Journal of Abnormal Child Psychology*, 34(1), 1-17.

Friedman, N.P., Miyake, A., Corley, R.P., Young, S.E., DeFries, J.C., & Hewitt, J.K. (2006). Not all executive functions are related to intelligence. *Psychological Science*, 17(2), 172-179.

Gelhorn, H.L., Stallings, M.C., Young, S.E., Corley, R. P., Rhee, S. and Hewitt, J.K.(2006). Common and specific genetic influences on aggressive and non-aggressive conduct disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*, 45(5), 570-577.

Haberstick B.C., Schmitz S., Young S.E., Hewitt J.K. (2006). Genes and developmental stability of aggressive behavior problems at home and school in a community sample of twins aged 7-12. *Behavior Genetics* 36(6), 809-19.

Haberstick, B.C., Smolen, A., Hewitt, J.K. (2006). Family-based association test of the 5HTTLPR and aggressive behavior in a general population sample of children. *Biological Psychiatry*, 59(9), 836-843.

Hopfer, C.J., Young, S.E., Purcell, S., Crowley, T.J., Stallings, M.C., Corley, R.P., Rhee, S.H., Smolen, A., Krauter, K., Hewitt, J.K., Ehringer, M.A.(2006). Cannabis receptor haplotype associated with fewer cannabis dependence symptoms in adolescents. *American Journal of Medical Genetics Neuropsychiatric Genetics*, 141, 895-901.

Huizinga, D., Haberstick, B.C., Smolen, A., Menard, S., Young, S.E., Corley, R.P., Stallings, M.C., Grotzinger, J., & Hewitt, J.K. (2006). Childhood maltreatment, subsequent antisocial behavior, and the role of monoamine

oxidase A genotype. *Biological Psychiatry*, 60, 677-683.

Lessem, J.M., Hopfer, C.J., Haberstick, B.C., Timberlake, D.S., Ehringer, M.A., Smolen, A., Hewitt, J.K. (2006). Relationship between adolescent marijuana use and young adult illicit drug use. *Behavior Genetics*, 36(4), 498-506.

Rhee, S.H., Hewitt, J.K., Young, S.E., Corley, R.P., Crowley, T.J., Neale, M.C., Stallings, M.C. (2006). Comorbidity between alcohol dependence and illicit drug dependence in adolescents with antisocial behavior and matched controls. *Drug and Alcohol Dependence*, 84(1), 85-92.

Timberlake, D.S., Haberstick, B.C., Hopfer, C., Lessem, J.M., Smolen, A., Ehringer, M.A., Hewitt, J.K. (2006). An association between the DAT1 polymorphism and smoking behavior in young adults from the National Longitudinal Study of Adolescent Health. *Health Psychology*, 25(2), 190-197.

Timberlake, D.S., Rhee, S.H., Haberstick, B.C., Hopfer, C., Ehringer, M., Lessem, J.M., Smolen, A., and Hewitt, J.K. (2006). The moderating effects of religiosity on the genetic and environmental determinants of smoking initiation. *Nicotine and Tobacco Research*, 8(1), 123-133.

Young, S.E., Smolen, A., Hewitt, J.K., Haberstick, B., Stallings, M.C., Corley, R.P., and T.J. Crowley (2006). Interaction between MAO-A genotype and maltreatment in the risk for Conduct Disorder: Failure to confirm in adolescent patients. *American Journal of Psychiatry*, 163(6), 1019-1025.

Young, S.E., Rhee, S.H., Stallings, M.C., Corley, R.P., Hewitt, J.K. (2006). Genetic and environmental vulnerabilities underlying adolescent substance use and problem use: General or specific? *Behavior Genetics*, 36(4), 603-615.

2005

Gelhorn, H.L., Stallings, M.C., Young, S.E., Corley, R.P., Rhee, S. and Hewitt, J.K. (2005). Genetic and environmental influences on conduct disorder: Symptom, domain and full-scale analyses. *Journal of Child Psychology and Psychiatry*, 46, 580-591.

Haberstick, B.C., Lessem, J.M., Hopfer, C.J., Smolen, A., Ehringer, M.A., Timberlake, D., & Hewitt, J.K. (2005). Monoamine oxidase A (MAOA) and antisocial behaviors in the presence of childhood and adolescent maltreatment. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, 135(B), 59-64.

Haberstick, B.C., Young, S.E., Schmitz, S., and Hewitt, J.K. (2005). Contributions of genes and environments to stability and change in externalizing and internalizing problems during elementary and middle school. *Behavior Genetics*, 31, 381-396.

Hopfer, C.J., Timberlake, D., Haberstick, B., Lessem, J.M., Ehringer, M.A., Smolen, A., & J.K. Hewitt, J.K. (2005). Genetic influences on quantity of alcohol consumed by adolescents and young adults. *Drug and Alcohol Dependence*, 78, 187-193.

Rhee, S.H., Hewitt, J.K., Corley, R.P., Willcutt, E.G., and Pennington, B.F. (2005). Testing hypotheses regarding the causes of comorbidity: Examining the underlying deficits of comorbid disorders. *Journal of Abnormal Psychology*, 114, 346-62.

Stallings, M.C., Corley, R.P., Dennehey, B., Hewitt, J.K., Krauter, K.S., Lessem, J.M., Mikulich-Gilbertson, S.K., Rhee, S.H., Smolen, A., Young, S.E., Crowley, T.J. (2005). A genome-wide search for quantitative trait loci that influence antisocial drug dependence in adolescence. *Archives of General Psychiatry*, 62, 1043-1051.

2004

Heiman, N., Stallings, M.C., Young, S.E., Hewitt, J.K. (2004). Investigating the genetic and environmental structure of Cloninger's personality dimensions in adolescence. *Twin Research*, 7(5), 462-70.

Petrill, S.A., Lipton, P.A., Hewitt, J.K., Plomin, R., Cherny, S.S., Corley, R., DeFries, J.C. (2004). Genetic and environmental contributions to general cognitive ability through the first 16 years of life. *Developmental Psychology*, 40(5), 805-12.

Rhee, S.H., Hewitt, J.K., Lessem, J.M., Stallings, M.C., Corley, R.P., & Neale, M.C. (2004). The validity of the Neale and Kendler model-fitting approach in examining the etiology of comorbidity. *Behavior Genetics*, 34, 251-

Siewert, E.A., Stallings, M.C., & Hewitt, J.K. (2004). Factor structure and concurrent validity of the Drug Use Screening Inventory in a community adolescent sample. *Addictive Behaviors, 29*, 627-638.

Siewert, E.A., Stallings, M.C., & Hewitt, J.K. (2004). Genetic influences on vulnerability to and protective factors for adolescent drinking. *Twin Research, 7*(6), 617-25.

2003

Adams, J.B., Heath, A.J., Young, S.E., Corley, R.P., Hewitt, J.K., & Stallings, M.C. (2003). Relationships between personality and preferred substance and motivations for use among adolescent substance abusers. *American Journal of Drug and Alcohol Abuse, 29*, 691-712.

Bishop, E.G., Cherny, S.S., Corley, R., DeFries, J.C., & Hewitt, J.K. (2003). Developmental genetic analysis of general cognitive ability from 1 to 12 years in a sample of adoptees, biological siblings, and twins. *Intelligence, 31*, 31-49.

Heiman, N., Stallings, M.C., Hofer, S.M., & Hewitt, J.K. (2003). Investigating age differences in the genetic and environmental structure of the Tridimensional Personality Questionnaire in later adulthood. *Behavior Genetics, 33*(2), 171-180.

Hopfer, C.J., Crowley, T.J., & Hewitt, J.K. (2003). Review of twin and adoption studies of adolescent substance use. *Journal of the American Academy of Child and Adolescent Psychiatry, 42*, 710-719.

Hopfer, C.J., Stallings, M.C., Hewitt, J.K., Crowley, T.J. (2003). Family transmission of marijuana use, abuse, and dependence. *Journal of the American Academy of Child and Adolescent Psychiatry, 42*, 834-841.

Rhee, S.H., Hewitt, J.K., Corley, R.P., & Stallings, M.C. (2003). The validity of testing the etiology of comorbidity between two disorders: A review of family studies. *Journal of Child Psychology and Psychiatry, 44*, 612-636.

Rhee, S.H., Hewitt, J.K., Corley, R.P., & Stallings, M.C. (2003). The validity of testing the etiology of comorbidity between two disorders: Comparisons of disorder prevalences in families. *Behavior Genetics, 33*, 257-269.

Rhee, S.H., Hewitt, J.K., Young, S.E., Corley, R.P., Crowley, T.J., Stallings, M.C. (2003). Genetic and environmental influences on substance initiation, use, and problem use in adolescents. *Archives of General Psychiatry, 60*, 1256-1264.

Siewert, E.A., Stallings, M.C., & Hewitt, J.K. (2003). Genetic and environmental analysis of behavioral risk factors for adolescent drug use in a community twin sample. *Twin Research, 6*, 490-496.

Stallings, M.C., Corley, R.P., Hewitt, J.K., Krauter, K.S., Lessem, J.M., Mikulich, S.K., Rhee, S.H., Smolen, A., Young, S.E., & Crowley, T.J. (2003). A genome-wide search for quantitative trait loci influencing substance dependence vulnerability in adolescence. *Drug and Alcohol Dependence, 70*, 295-307.

Wamboldt, M.Z., Laudenslager, M., Wamboldt, F.S., Kelsay, K., Hewitt, J.K. (2003). Adolescents with atopic disorders have attenuated cortisol response to laboratory stress. *The Journal of Allergy and Clinical Immunology, 111*, 509-514.

Young, S.E., Smolen, A., Stallings, M.C., Corley, R.P., & Hewitt, J.K. (2003). Sibling-based association analyses of the serotonin transporter polymorphism and internalizing behavior problems in children. *Journal of Child Psychology and Psychiatry, 44*, 961-967.

2002

Wadsworth, S.J., Corley, R.P., Hewitt, J.K., Plomin, R., & DeFries, J.C. (2002). Parent-offspring resemblance for reading performance at 7, 12 and 16 years of age in the Colorado Adoption Project. *Journal of Child Psychology and Psychiatry, 43*, 769-774.

Young, S.E., Corley, R.P., Stallings, M.C., Rhee, S.H., Crowley, T.J., & Hewitt, J.K. (2002). Substance use, abuse and dependence in adolescence: Prevalence, symptom profiles, and correlates. *Drug and Alcohol*

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Young, S.E., Smolen, A., Corley, R.P., Krauter, K.S., DeFries, J.C., Crowley, T.J., & Hewitt, J.K. (2002). Dopamine transporter polymorphism associated with externalizing behavior problems in children. *American Journal of Medical Genetics (Neuropsychiatric Genetics)*, 114, 144-149.

2001

Foley, D.L., Pickles, A., Simonoff, E., Maes, H.H., Silberg, J.L., Hewitt, J.K., & Eaves, L.J. (2001). Parental concordance and comorbidity for psychiatric disorder and associated risks for current psychiatric symptoms and disorders in a community sample of juvenile twins. *Journal of Child Psychology and Psychiatry*, 42, 381-394.

Hopfer, C.J., Stallings, M.C., Hewitt, J.K., (2001). Common genetic and environmental vulnerability for alcohol and tobacco use in a volunteer sample of older female twins. *Journal of Studies on Alcohol*, 62, 717-723.

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Purcell, S., Cherny, S.S., Hewitt, J.K., & Sham, P.C. (2001). Optimal sibship selection for genotyping in QTL linkage analysis. *Human Heredity*, 52, 1-13.

Rijsdijk, F.V., Hewitt, J.K., Sham, P.C. (2001). Analytic power calculation for QTL analysis of general pedigrees. *European Journal of Human Genetics*, 9, 335-340.

Wadsworth, S.J., Corley, R.P., Hewitt, J.K., & DeFries, J.C. (2001). Stability of genetic and environmental influences on reading performance at 7, 12 and 16 years of age in the Colorado Adoption Project. *Behavior Genetics*, 31, 353-359.

2000

Meyer, J.M., Rutter, M., Silberg, J.L., Maes, H.H., Simonoff, E., Shillady, L.L., Pickles, A., Hewitt, J.K., & Eaves, L.J. (2000). Familial aggregation for conduct disorder symptomatology: The role of genes, marital discord, and family adaptability. *Psychological Medicine*, 30, 759-774.

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Van Hulle, C., Corley, R., Zahn-Waxler, C., Kagan, J., and Hewitt, J.K. (2000). An exploration of the genetic and environmental etiology of heart rate in infancy and middle childhood. *Twin Research*, 3, 259-265.

VanHulle, C., Corley, R., Zahn-Waxler, C., Kagan, J., & Hewitt, J.K. (2000). Early childhood heart rate does not predict externalizing behavior problems at age seven years. *Journal of the American Academy of Child and Adolescent Psychiatry*, 39, 1238-1244.

Wamboldt, M.Z., Bihun, J.T., Szeffler, S., & Hewitt, J.K. (2000). Perception of induced bronchoconstriction in a community sample of adolescents. *Journal of Allergy and Clinical Immunology*, 106, 1102-1107.

Wamboldt, M.Z., Hewitt, J.K., Schmitz, S., Wamboldt, F.S., Räsänen, M., Koskenvuo, M., Romanov, K., Varjonen, J., & Kaprio, J. (2000). Familial association between allergic disorders and depression in adult Finnish twins. *American Journal of Medical Genetics (Neuropsychiatric Genetics)* 96, 146-153.

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