

CURRICULUM VITAE

PERSONAL INFORMATION

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Title: Associate Professor
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PROFESSIONAL INTEREST SUMMARY

Psychiatric Genetics: Genetics, Molecular Genetics, Genomics, Schizophrenia, Alcohol Dependence, Complex Trait, Genome-wide Association, Copy Number Variation, Gene-Environment Interaction, Autism

EDUCATION

1982-1986: Columbia College, Columbia University, New York
BA, Psychology, 1986

1992-1993: London School of Hygiene and Tropical Medicine, University of London
MSc, Human Nutrition, 1993

1993-1996: Imperial College School of Medicine at St Mary's, Imperial College, University of London
PhD, Biochemistry and Molecular Genetics, 1997

ACADEMIC APPOINTMENT HISTORY

2008-	Associate Professor, Tenured	Virginia Institute for Psychiatric and Behavioral Genetics, Departments of Psychiatry and Human & Molecular Genetics, Virginia Commonwealth University
2001-2008	Assistant Professor, Tenure Track	Virginia Institute for Psychiatric and Behavioral Genetics, Departments of Psychiatry and Human & Molecular Genetics, Virginia Commonwealth University
2000-2001	Faculty	MRC Centre for Social, Genetic and Developmental Psychiatry Research, Institute of Psychiatry, Kings College, University of London
1998-2001	Lecturer	Division of Psychological Medicine, Institute of Psychiatry, Kings College, University of London

EMPLOYMENT HISTORY

2001-	Director, Molecular Genetics Lab	Virginia Institute for Psychiatric and Behavioral Genetics, Departments of Psychiatry & Human Genetics, Virginia Commonwealth University
2000-2001	Executive Committee	MRC Centre for Social, Genetic and Developmental Psychiatry Research, Institute of Psychiatry, Kings College, University of London
1998-2001	MRC Research Training Fellow	Division of Psychological Medicine, Institute of Psychiatry, Kings College, University of London
1996-1998	Post-doctoral Fellow, (Prof. Robin Murray)	Division of Psychological Medicine, Institute of Psychiatry, Kings College, University of London
1991-1996	Research Assistant, (Prof. Bob Williamson)	Department of Biochemistry, Imperial College School of Medicine at St Mary's, Imperial College, University of London
1986-1987	Technician (Dr. John Pintar)	Department of Anatomy, College of Physicians & Surgeons, Columbia University

AWARDS AND HONORS

2004	<i>Senior Scientist Award</i>	Biennial Winter Workshop on Schizophrenia
1999, 2000, 2001	<i>Post-doctoral Scholarship</i>	World Congress on Psychiatric Genetics
1999	<i>Young Investigator Award</i>	International Congress on Schizophrenia Research
1998-2001	<i>Medical Research Council Research Training Fellowship</i>	UK Medical Research Council competitive fellowship
1996, 1998, 2000	<i>Young Scientist Award</i>	Biennial Winter Workshop on Schizophrenia
1996	<i>Edgar Lawley Travel Scholarship</i>	St. Mary's Hospital Medical School
2008	<i>Outstanding Departmental Teacher Award, Human and Molecular Genetics Dept.</i>	Virginia Commonwealth University

MEMBERSHIP IN PROFESSIONAL SOCIETIES

2001-present	American Society of Human Genetics
1995-present	International Society of Psychiatric Genetics

EXPERT SERVICES

NIH Peer Review Committees: Genomics, Computational Biology and Technology (GCAT) and Genetics of Health and Disease (GHD) Study Sections (Temporary Member).

Other Grant Peer Review: Australian National Health and Medical Research Council (2005), Health Research Board Ireland (2006), German Federal Ministry of Education and Research Integrated Networks for Disease-Oriented Genome Research (2007).

Journal Peer Review: regular reviewer for

Acta Psychiatrica Scandinavica	Journal of Nervous & Mental Disease
American Journal of Human Genetics	The Lancet
American Journal of Psychiatry	Molecular Psychiatry
American Journal of Medical Genetics	Nature Genetics
Archives of General Psychiatry	Neuroscience Letters
Behavior Genetics	Neurotoxicity Research
Biological Psychiatry	PLoS Genetics
Human Molecular Genetics	Psychological Medicine
Journal of Allergy and Clinical Immunology	Schizophrenia Research
Journal of Child Psychiatry & Psychology	Twin Research & Behavior Genetics

Consultancies: LEK Consulting (several interviews yearly for product development and market identification); Science Advisory Board (surveys for laboratory requirements).

RESEARCH FUNDING

ACTIVE

1-R01-MH068881-01 (Riley) 4/1/04-3/31/08 5%
NIMH \$325,000 + 164,000 = \$489,000

Multicenter Genetic Studies of Schizophrenia
PI

Collaborative, multicenter study of schizophrenia undertaking new full genome scan in collaborative sample as well as continued genotyping of markers in suggested linkage regions for schizophrenia. This grant is an independent R01 within the collaborative project grant (PI Levinson).

2-R01-MH041953-13 (Kendler/Riley) 4/1/04-3/31/09 30%
NIMH \$2,470,192 + 971,774 = \$3,441,966

Genetic epidemiology of schizophrenia in Ireland
Co-PI

Sequence DTNBP1 in schizophrenic and control samples selected on the basis of presence or absence of the high risk haplotype to identify pathogenic variants influencing liability to schizophrenia.

Young Investigator Award (Riley) 7/15/04-12/31/07 10%
NARSAD \$59,996

African Haplotype Studies of Schizophrenia Candidate Genes
PI

Haplotype studies of candidate genes in African schizophrenic samples to identify smaller, and possibly multiple, associated haplotypes in samples not yet investigated for association with the current best set of schizophrenia candidate genes. No cost extension granted 2006.

VA Medical Research Award (Fanous) 10/4/04-10/3/07 8%
VA \$450,000

Linkage Disequilibrium Mapping of Susceptibility Genes for Schizophrenia
Co-investigator

Identify additional schizophrenia candidate genes by use of factor scores for quantitative phenotyping of relatives.

1-R01-AA011408 (Kendler/Riley) 7/1/07-6/30/12 20%
NIAAA \$2,499,681 + 998,012 = \$3,496,493

An Irish Affected Sib Pair Study of Alcohol Dependence
Co-PI

Competitive renewal to identify susceptibility genes for alcohol dependence (AD) through: i) fine mapping under linkage peaks in our affected sibpair sample; ii) collection of a new sample of 1,000 AD cases and 1,000 controls for independent replication; iii) establishment of a bioinformatic candidate gene prioritization pipeline to select genes for association testing; iv) genotyping ~180 prioritized genes for AD using a two-stage false-discovery rate control design in sample sizes with 80% power to detect effects with odds ratios as low as 1.3; v) study of the molecular biology of selected positive loci for AD starting with *ZNF699*; vi) examination of gene x gene and gene x sex interactions.

(Project 2), *C. elegans* (Project 3), and *D. melanogaster* (Pilot 1) and are mutually reinforcing. 3. Initial sensitivity and acute tolerance to ethanol are phenotypes with broad cross-species experimental applicability and validated relevance to alcoholism.

Project 2: Alcohol Dependence (AD) is a major public health problem. Prior research demonstrates that genetic factors play a critical etiologic role in AD and other alcohol-related phenotypes (ARPs). The goal of this project is to identify specific susceptibility loci (SL) which impact on risk for AD. This proposal builds on the achievements of our ongoing Irish Affected Sib-Pair Study of Alcohol Dependence (IASPSAD) and those of other VCU-ARC component groups. This application for a P20 Center Developmental Project grant has 4 specific aims: i) to comprehensively screen for genes associated with AD and ARPs in a region of chromosome 1; ii) to assess in our human sample up to two selected and prioritized loci per year suggested by work in other organisms from other VCU-ARC component groups (mouse, *c. elegans*, *drosophila*) or the literature, and to similarly contribute associated human loci as candidates for further assessment in the model organisms in use by the other VCU-ARC component groups; iii) to use the data from these studies to empirically assess the performance of the gene selection and prioritization approaches developed by the VCU-ARC Bioinformatics Core, and to further develop the capacities of the selection and prioritization approach; iv) to assess the effects of validated loci on phenotypes including nicotine dependence, illicit drug dependence, depression and conduct disorder, in order to clarify the phenotypic spectrum. Proposal received priority score **152** in review 5/08, decision pending.

IN PREPARATION

1-R21-AA017264 (Riley)

2/1/09-1/31/11

10%

NIAAA

\$275,000 + 134,750 = \$409,750

**Identification of Genes for Alcohol Dependence from Pooled Whole Genome Data.
PI**

Alcohol Dependence (AD) is a major public health problem. Prior research demonstrates that genetic factors play a critical etiologic role in AD. However, the nature of the genetic inputs to AD susceptibility are complex, and are likely to be expensive to identify. The goal of this project is to use and extend the results of a low-cost approach to interrogation of the whole genome into a dataset identifying specific novel genes which impact on risk for AD, to further understanding of the etiology, and ultimately, improve intervention.

Proposal received priority score **192** in review 6/07, resubmission 6/08.

COMPLETE

1-RO1-AA110408 (Prescott)

9/1/02-8/31/06

25%

NIAAA

\$1,940,502 + 762,960 = \$2,703,462

**An Irish Affected Sib Pair Study of Alcohol Dependence
Co-Investigator**

Current evidence suggests that the probability of success can be enhanced by adopting such methods as the use of selected and systematically ascertained samples of large size obtained from a population with substantial genetic and cultural homogeneity. This application proposes to carry out a study employing such methods. We hope to

ascertain, from population-based registers in 3 counties in Ireland, 1,700 siblings from 800 multiplex sibships who meet narrow DSM-IV based criteria for Alcohol Dependence.

1R01MH6227601 (subcontract, Riley) 1/9/00-8/31/03 5%
NIMH \$174,000 + 78,300 = \$252,300

Multicenter Genetic Studies of Schizophrenia.

PI

7-site effort to contribute to the identification of schizophrenia susceptibility genes using genetic linkage and association studies of a combined sample of about 900 informative pedigrees.

5R01MH41953 (Kendler) 4/1/99-3/31/04 5%
NIMH \$2,633,807 + 507,883 = \$3,141,690

The Genetic Epidemiology of Schizophrenia in Ireland.

Co-Investigator

This is a competitive renewal that seeks support to critically extend the Irish Study of High Density Schizophrenia Families by collecting 500 proband-parent triads for family-based association studies.

Biomedical Research Collab. (Riley) 12/1/98-11/31/04 2%
Wellcome Trust, UK £18,324

Sampling schizophrenic patients and their parents in Ethiopia and Ghana for molecular genetic analysis using transmission disequilibrium analysis.

PI

Ascertain and sample schizophrenic cases and their relatives from the Butajira Rural Mental Health Study, in Butajira Ethiopia, and from similar population-based surveys in Ghana.

PUBLICATIONS

Papers Published in Peer-Reviewed Journals

1. Thiselton DL, Vladimirov V, Wormley BR, Ribble RC, O'Neill FA, Walsh D, Kendler KS, **Riley B** (manuscript in preparation). Association of the G72/D-amino acid oxidase activator (G72/DAAO-A) gene with schizophrenia in the Irish Study of High Density Schizophrenia Families.
2. Anderson V, Thiselton DL, Howard K, Dobb R, Mill K, Ribble R, Williamson R, **Riley B** (manuscript in preparation). Molecular characterization, IQ and executive function in a sample of Turner syndrome cases from Australia.
3. Webb BT, Wormley BR, Jiang Y, Straub RE, O'Neill FA, Walsh D, Kendler KS, Neale MC, **Riley B** (manuscript in preparation). Increased evidence for schizophrenia linkage in the ISHDSF after stratification by a DTNBP1 high-risk haplotype.
4. Rehder RC, McChesney P, Holt SE, Corey LA, **Riley BP**, Jackson-Cook CK (manuscript in preparation) Chromosome-specific telomeres: Their lengths are inversely correlated with acquired aneuploidy levels and are influenced by heritable genetic factors.
5. Edwards TL, Wang X, Chen Q, Wormley B, **Riley B**, O'Neill FA, Walsh D, Ritchie MD, Kendler KS, and Chen X (submitted). Evidence of Interaction between Interleukin 3 and Dystrobrevin-Binding Protein 1 in Schizophrenia. *Genetic Epidemiology*
6. **Riley B**, Kuo P-H, Wormley B, O'Neill FA, Walsh D, Kendler KS (submitted). The dystrobrevin-binding protein 1 (*DTNBP1*) gene is associated with schizophrenia in the Irish Case Control Study of Schizophrenia. *Biological Psychiatry*.
7. Thiselton DL, Webb BT, FA O'Neill, Walsh D, Kendler KS, **Riley BP** (submitted). No association of markers in the phosphatidylinositol-4-phosphate 5-kinase II α (*PIP5K2A*) gene on chromosome 10p12 to schizophrenia in the Irish Study of High Density Schizophrenia Families. *Schizophrenia Research*.
8. Prom EC, Eaves LJ, Foley DL, Gardner CO, Archer KJ, Wormley BK, **Riley BP**, Silberg JL (in press). Monoamine Oxidase-A and childhood adversity as risk factors for conduct disorder in females. *Psychological Medicine*.
9. Guo AY, Sun J, **Riley BP**, Thiselton DL, Kendler KS, Zhao Z (in press) The dystrobrevin binding protein 1 (DTNBP1) gene: features and networks. *Molecular Psychiatry*.
10. Sun J, Kuo PH, **Riley BP**, Kendler KS, Zhao Z (in press) Candidate genes for schizophrenia: a survey of association studies and gene ranking. *American Journal of Medical Genetics B Neuropsychiatric Genetics*.
11. Hodgkinson CA, Xu K, Yuan Q, Shen P-H, Heinz E, Lobos EA, Binder E, Cubells J, Ehlers CL, Gelernter J, Mann J, **Riley B**, Roy A, Tabakoff B, Todd RD, Zhou Z, and Goldman D (2008). Addictions Biology: Haplotype Based Analysis for 130 Candidate

Genes on a Single Array. *Alcohol and Alcoholism*. Epub ahead of print, PMID: 18477577.

12. Kuo P-H, Kalsi G, Hodgkinson CA, Goldman D, Alexander J, Vittum J, van den Oord EJ, Sullivan PF, Patterson DG, Walsh D, Kendler KS, Prescott CA and **Riley BP** (2008). Association of ADH and ALDH Genes with Alcohol Dependence in the Irish Affected Sib Pair Study of Alcohol Dependence (IASPSAD) Sample. *Alcoholism: Clinical and Experimental Research* **32**: 785-795.

13. Sullivan PF, Kuo P-H, Webb BT, Neale MC, Vittum J, Furberg H, Walsh D, Patterson DG, **Riley B**, Prescott CA, Kendler KS (2008). Genomewide linkage survey of nicotine dependence phenotypes. *Drug and Alcohol Dependence* **93**:210-216.

14. Fanous AH, Neale MC, Webb BT, Straub RE, O'Neill FA, Walsh D, **Riley BP**, Kendler KS (2008). Novel Linkage to Chromosome 20p Using Latent Classes of Psychotic Illness in 270 Irish High-Density Families. *Biological Psychiatry* **64**:121-127.

15. Mazefsky CA, Goin-Kochel RP, **Riley BP**, Maes HH, Autism Genetic Resource Exchange (2008). Genetic and environmental influences on symptom domains in twins and siblings with autism. *Research in Autism Spectrum Disorders* **2**: 320-331.

16. Goin-Kochel RP, Mazefsky CA, **Riley BP**, Autism Genetic Resource Exchange (2008). Level of functioning in autism spectrum disorders: phenotypic congruence among affected siblings. *Journal of Autism and Developmental Disorders* **38**:1019-1027.

17. Thiselton DL, Vladimirov V, Wormley BR, Ribble RC, O'Neill FA, Walsh D, Kendler KS, **Riley B** (2008). Association of the AKT1 gene with schizophrenia in the Irish Study of High Density Schizophrenia Families. *Biological Psychiatry* **63**: 449-457.

18. Francks C, Maegawa S, Laurén J, Abrahams BS, Velayos-Baeza A, Medland SE, Colella S, Groszer M, McAuley EZ, Caffrey TM, Timmusk T, Pruunsild P, Koppel I, Lind PA, Matsumoto-Itaba N, Nicod J, Xiong L, Joobor R, Enard W, Krinsky B, Nanba E, Richardson AJ, **Riley BP**, Martin NG, Strittmatter SM, Möller H-J, Rujescu D, St Clair D, Muglia P, Roos JL, Fisher SE, Wade-Martins R, Rouleau G, Stein JF, Karayiorgou M, Geschwind DH, Ragoussis J, Kendler KS, Airaksinen MS, Oshimura M, DeLisi LE and Monaco AP (2007). LRR11 on chromosome 2p12 is a maternally suppressed gene that is associated paternally with handedness and schizophrenia. *Molecular Psychiatry* **12**:1129-39.

19. Fanous AH, Neale MC, Webb BT, Straub RE, Amdur RL, O'Neill FA, Walsh D, **Riley BP** and Kendler KS (2007). A genome-wide scan for modifier loci in schizophrenia. *American Journal of Medical Genetics B Neuropsychiatric Genetics* **144**: 589-95.

20. Moxley G, Han J, Stern AG, **Riley BP** (2007). Potential influence of IL1B haplotype and IL1A-IL1B-IL1RN extended haplotype on hand osteoarthritis risk. *Osteoarthritis and Cartilage*. Epub ahead of print May 24, 2007; doi: 10.1016/j.joca.2007.03.022

21. Vladimirov V, Thiselton DL, Wormley BR, Ribble RC, O'Neill FA, Walsh D, Kendler KS, **Riley B** (2007). A region of 35 Kb containing the Trace Amine-Associated Receptor

- 6 (TAAR6) gene is associated with schizophrenia in the Irish Study of High Density Schizophrenia Families. *Molecular Psychiatry* advance online publication, May 15, 2007; doi:10.1038/sj.mp.4001984.
22. Fanous AH, Neale MC, Webb BT, Straub RE, O'Neill FA, Walsh D, **Riley BP**, Kendler KS (2007). Significant Correlation in Linkage Signals from Genome-Wide Scans of Schizophrenia and Schizotypy. *Molecular Psychiatry*. Advance online publication 17 April 2007; doi: 10.1038/sj.mp.4001996
23. Iwata Y, Nakajima M, Yamada K, Nakamura K, Sekine Y, Tsuchiya KJ, Sugihara G, Matsuzaki H, Suda S, Suzuki K, Takei N, Mori N, Iwayama Y, Takao H, Yoshikawa T, **Riley B**, Makoff A, Sham P, Chen R and Collier D (2007). Linkage Disequilibrium Analysis of the CHRNA7 Gene and Its Partially Duplicated Region in Schizophrenia. *Neuroscience Research* **57**:194-202.
24. Kuo P-H, Neale MC, **Riley BP**, Patterson DG, Walsh D, Prescott CA, Kendler KS (2007). A genome-wide linkage analysis for personality trait Neuroticism in the Irish Affected Sib Pair Study of Alcohol Dependence. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **144B**: 463-468.
25. Kuo P-H, Neale MC, **Riley B**, Webb BT, Sullivan PF, Vittum J, Patterson DG, Thiselton DL, Van den Oord EJ, Walsh D, Kendler KS, Prescott CA (2006). Identification of Susceptibility Loci for Alcohol-related Traits in the Irish Affected Sib Pair Study of Alcohol Dependence. *Alcoholism: Clinical and Experimental Research* **30**:1807-1816.
26. Prescott CA, Sullivan PF, Kuo P-H, Webb BT, Vittum J, Patterson DG, Thiselton DL, Myers JM, Devitt M, Halberstadt LJ, Robinson VP, Neale MC, van den Oord EJ, Walsh D, **Riley BP**, and Kendler KS (2006). Genome-wide linkage study in the Irish Affected Sib Pair Study of Alcohol Dependence: Evidence for a susceptibility region for symptoms of alcohol dependence on chromosome 4. *Molecular Psychiatry* **11**: 603-611.
27. **Riley B**, Kuo P-H, Kalsi G, Vladimirov V, Thiselton DL, Vittum J, Wormley B, Grotewiel MS, Patterson DG, Sullivan PF, van den Oord E, Walsh D, Kendler KS, Prescott CA. (2006) Alcohol dependence is associated with the *ZNF699* gene, a human locus related to *Drosophila hangover*, in the Irish Affected Sib Pair Study of Alcohol Dependence (IASPSAD) sample. *Molecular Psychiatry* **11**:1025–1031.
28. Kendler KS, Kuo P-H, Webb BT, Kalsi G, Neale MC, Sullivan PF, Walsh D, Patterson DG, **Riley B**, Prescott CA (2006). A joint genome wide linkage analysis of symptoms of alcohol dependence and conduct disorder. *Alcoholism: Clinical and Experimental Research* **30**: 1972-1977.
29. Fanous A, van den Oord E, **Riley B**, Aggen SH, Neale MC, O'Neill FA, Walsh D, Kendler KS (2005). Relationship between a high-risk haplotype in the DTNBP1 (dysbindin) gene and clinical features of schizophrenia. *American Journal of Psychiatry* **162**:1824-32.
30. Kendler KS, Kuhn JW, Vittum J, Prescott CA, **Riley B** (2005). The interaction of stressful life events and a serotonin transporter polymorphism in the prediction of

episodes of major depression: a replication. *Archives of General Psychiatry* **62**: 529-535.

31. Foley DL, Kuhn J, Wormley B, Silberg JL, Maes HH, Eaves LJ, **Riley B** (2004). Childhood adversity, MAO-A genotype and risk for conduct disorder. *Archives of General Psychiatry* **61**: 738-744.

32. Thiselton DL, Webb BT, Neale B, Ribble RC, O'Neill FA, Walsh D, **Riley BP**, Kendler KS (2004). No evidence for linkage or association of Neuregulin-1 (*NRG1*) with disease in the Irish Study of High Density Schizophrenia Families (ISHDSF). *Molecular Psychiatry* **9**: 777-783.

33. Mowry BJ, Holmans PA, Pulver AE, Gejman PV, **Riley B**, Williams NM, Laurent C, Schwab SG, Wildenauer DB, Bauché S, Owen MJ, Wormley B, Sanders AR, Nestadt G, Liang KY, Duan J, Ribble R, Norton N, Soubigou S, Maier W, Ewen-White KR, deMarchi N, Carpenter B, Walsh D, Williams H, Jay M, Albus M, Nertney DA, Papadimitriou G, O'Neill A, O'Donovan MC, Deleuze J-F, Lerer FB, Dikeos D, Kendler KS, Mallet J, Silverman JM, Crowe RR, Levinson DF (2004) Multicenter linkage study of schizophrenia loci on chromosome 22q. *Molecular Psychiatry* **9**: 784-795.

34. van den Oord EJCG, Sullivan PF, Chen X, Kendler KS, **Riley BP** (2003) Identification of a high risk haplotype for the dystrobrevin binding protein 1 (DTNBP1) gene in the Irish Study of High Density Schizophrenia Families. *Molecular Psychiatry* **8**: 499-510.

35. van den Oord E, Jiang Y, **Riley B**, Kendler KS, Chen X (2003). SNP Genotype Scoring using Automated Procedures and Technicians: A Study of Error Rates and Types. *BioTechniques*. **34**: 610-624.

36. Levinson DF, Holmans PA, Laurent C, **Riley B**, Pulver AE, Gejman PV, Schwab SG, Williams NM, Owen MJ, Wildenauer DB, Sanders AR, Nestadt G, Mowry BJ, Wormley B, Bauche S, Soubigou S, Ribble R, Nertney DA, Liang KY, Martinolich L, Maier W, Norton N, Williams H, Albus M, Carpenter EB, deMarchi N, Ewen-White KR, Walsh D, Jay M, Deleuze J-F, O'Neill FA, Papadimitriou G, Weillbaeher A, Lerer B, O'Donovan MC, Dikeos D, Silverman JM, Kendler KS, Mallet J, Crowe RR, Walters M (2002). No major schizophrenia locus detected on chromosome 1q in a large multicenter sample. *Science* **296**: 739-741.

37. **Riley BP**, Williamson M, Collier D, Wilkie H and Makoff A (2002). A 3Mb map of a large segmental duplication overlapping the $\alpha 7$ nicotinic acetylcholine receptor gene (*CHRNA7*) at human 15q13-q14. *Genomics* **79**: 197-209.

38. **Riley BP**, Mogudi-Carter M, Jenkins T, Williamson R, Collier D and Murray R. (2000). Haplotype transmission disequilibrium and evidence for linkage of the *CHRNA7* gene region to schizophrenia in southern African Bantu families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **96**: 196-201.

39. Bailey MES, Matthews DA, **Riley BP**, Albrecht BE, Kostrzewa M, Hicks AA, Harvey RJ, Harris R, Müller U, Darlison MG and Johnson KJ (1999). Linkage and radiation

hybrid mapping of human GABA_A receptor subunit gene clusters reveals insights into their evolution. *Mammalian Genome* **10**: 839-843.

40. Craddock N, Lendon C, Cichon S, Culverhouse R, Detera-Wadleigh S, Devon R, Faraone S, Foroud T, Gejman P, Leonard S, McInnis M, Owen MJ, **Riley B** (1999). Chromosome workshop: Chromosomes 11, 14, and 15. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **88**: 244-254.

41. Morton CC, Christian SL, Donlon TA, Driscoll DJ, Fink JK, Gabriel JM, Gotway G, Greally JM, Hitchins MP, Howard HC, Ji Y, Leonard S, Lerner T, Magenis E, Malcolm S, Ohta T, Rainier S, Rees M, **Riley B**, Robinson WP, Saitoh S, Schultz R, Sell S, Sharp JD, Talbot C, Trent R, Wevrick R and Nicholls RD (1999). Fourth International Workshop on Human Chromosome 15 Mapping. *Cytogenetics & Cell Genetics* **84**: 12-21.

42. **Riley BP**, Lin M-W, Mogudi-Carter M, Jenkins T, Williamson R, Powell JF, Collier D and Murray R (1998). Failure to exclude a possible schizophrenia susceptibility locus on chromosome 13q14.1-q32 in southern African Bantu-speaking families. *Psychiatric Genetics* **8**: 155-162.

43. Barden N, Morissette J, Armstrong CA, Ginns EI, Hwu H-G, Inada Y, LaBuda MC, Levinson DF, **Riley BP**, Shaw S, Sherrington R, Straub RE, Williams J (1998). Chromosome 13 workshop. *Psychiatric Genetics* **8**: 93-96.

44. **Riley BP** and Williamson R (1997). Nonparametric analysis of chromosome 6p24-22 marker data and schizophrenia in Southern African Bantu-speaking families. *Psychiatric Genetics* **7**: 131-132.

45. **Riley BP**, Tahir E, Rajagopalan S, Mogudi-Carter M, Fauré S, Weissenbach J, Jenkins T and Williamson R (1997). A linkage study of the N-methyl-D-aspartate receptor subunit gene loci and schizophrenia in southern African Bantu-speaking families. *Psychiatric Genetics* **7**: 57-74.

46. **Riley BP**, Mogudi-Carter M, Rajagopalan S, Jenkins T and Williamson R (1996). No evidence for linkage of chromosome 6p markers to schizophrenia in southern African Bantu-speaking families. *Psychiatric Genetics* **6**: 41-50.

47. **Riley BP**, Mogudi-Carter M, Jenkins T, Williamson R (1996). No evidence for linkage of chromosome 22 markers to schizophrenia in a sample of southern African Bantu-speaking families. *American Journal of Medical Genetics (Neuropsychiatric Genetics)* **67**: 515-522.

48. Schizophrenia Linkage Collaborative Group for Chromosomes 3, 6 and 8. (1996). Additional support for schizophrenia linkage on chromosomes 6 and 8: a multicenter study. *American Journal of Medical Genetics (Neuropsychiatric Genetics)* **67**: 580-594.

49. Daniels JK, Williams NM, Williams J, Jones LA, Cardno AG, Murphy KC, Scott L, Spurlock G, **Riley B**, Scambler P, Asherson P, McGuffin P, Owen MJ (1996). No evidence for allelic association between schizophrenia and a polymorphism determining high or low catechol-O-methyltransferase activity. *American Journal of Psychiatry* **153**: 268-270.

50. Byerley W, Bailey MES, Hicks AA, **Riley BP**, Darlison MG, Holik J, Hoff M, Umar F, Reimherr F, Wender P, Myles-Worsley M, Waldo M, Freedman R, Johnson KJ, Coon H (1995). Schizophrenia and GABA_A receptor subunit genes. *Psychiatric Genetics* **5**: 23-29.

51. Hicks AA, Bailey MES, **Riley BP**, Kamphuis W, Siciliano MJ, Johnson KJ, Darlison MG (1994). Further evidence for clustering of human GABA_A receptor subunit genes: localization of the α_6 -subunit gene (GABRA6) to distal chromosome 5q by linkage analysis. *Genomics* **20**: 285-288.

52. Bakker E, Vossen RHAM, **Riley BP**, Sherrington R, Vergnaud G, Pearson NM (1994). The EUROGEN map of human chromosome 4. *European Journal of Human Genetics* **2**: 210-211.

53. **Riley BP**, Williamson R, Vergnaud G (1994). The EUROGEN map of human chromosome 22. *European Journal of Human Genetics* **2**: 246-247.

54. Gispert S, Twells R, Orozco G, Brice A, Weber J, Heredero L, Scheufler K, **Riley B**, Allotey R, Nothers C, Hillermann R, Lunke A, Khati C, Stevinin G, Hernandez A, Magariño C, Klockgether T, Durr A, Chneiweiss H, Enczmann J, Farrall M, Beckmann J, Mullan M, Wernet P, Agid Y, Freund H-J, Williamson R, Auburger G, Chamberlain S (1993). Chromosomal assignment of the second locus for autosomal dominant cerebellar ataxia (SCA2) to chromosome 12q23-24.1. *Nature Genetics* **4**: 295-299.

55. Johnson KJ, Sander T, Hicks AA, van Marle A, Janz D, Mullan MJ, **Riley BP**, Darlison MG (1992). Confirmation of the localization of the human GABA_A receptor α_1 -subunit gene (GABRA1) to distal 5q by linkage analysis. *Genomics* **14**: 745-748.

56. Buxton J, Shelbourne P, Davies J, Jones C, Van Tongeren T, Aslanidis C, deJong P, Jansen G, Anvret M, **Riley B**, Williamson R, Johnson K (1992). Detection of an unstable fragment of DNA specific to individuals with myotonic dystrophy. *Nature* **355**: 547-548.

Invited Editorials/Commentaries

1. **Riley B** (2008). Gene x Environment Interactions in Psychiatry. *Current Opinion in Psychiatry*.
2. McGuffin P, **Riley B**, Plomin R (2001). Toward behavioral genomics. *Science* **291**: 1232-1249.
3. **Riley BP** and Williamson R (2000). Sane Genetics for Schizophrenia. *Nature Medicine* **6**: 253-255.

Reviews

1. Kalsi G, Prescott CA, Kendler KS, **Riley BP** (submitted). Unravelling the molecular mechanisms of alcohol dependence. *Trends in Genetics*.

2. **Riley B** and Kendler KS (2006). Molecular genetic studies of schizophrenia. *European Journal of Human Genetics* **14**: 669–680.
3. **Riley B** (2004). Linkage studies of schizophrenia. *Neurotoxicity Research* **6**:17-34.
4. **Riley BP** and McGuffin P (2000). Linkage and associated studies of schizophrenia. *American Journal of Medical Genetics Seminars in Medical Genetics* **97**: 23-44.

Book Chapters

1. **Riley B** and Kendler KS (2008). Genetics of Schizophrenia, in Schizophrenia (3rd Edition), Hirsch SR and Weinberger DR, (eds.) (Oxford:Blackwell Science).
2. **Riley B** (2008). Molecular Genetic Studies of Schizophrenia, in The Handbook of Neurochemistry and Molecular Neurobiology, Volume 13: Genomics, Proteomics and the Nervous System, Clelland J (ed.) (New York: Kluwer).
3. Chen X, **Riley B**, Kendler KS (2008). Genetics of Schizophrenia, in Neurobiology of Mental Illness (3rd Edition), Charney DS and Nestler EJ (eds.) (New York: Oxford University Press).
4. **Riley B** (2006). Childhood Adversity, MAO-A Genotype and Risk for Conduct Disorder, in Beyond Nature and Nurture: Genes, Environment and their Interplay in Psychiatry, MacCabe J, O'Daly O, Murray R, McGuffin P, and Wright P (eds.) (Abingdon, UK:Informa).
5. **Riley B** and Kendler KS (2005). Genetics of Schizophrenia: Linkage and Association Studies, in Psychiatric Genetics (Review of Psychiatry Volume 24, Number 1), Kendler KS and Eaves LJ (eds.) (Washington DC: American Psychiatric Publishing).
6. **Riley B** and Kendler KS (2004). Schizophrenia: Genetic Epidemiology, in Kaplan and Sadock's Comprehensive Textbook of Psychiatry (8th Edition), Sadock BJ and Sadock VA (eds.) (New York: Lipincott, Williams and Wilkins).
7. **Riley B** and Kendler KS (2003). Molecular Genetics of Schizophrenia, in Neurobiology of Mental Illness (2nd Edition), Charney DS and Nestler EJ (eds.) (New York: Oxford University Press).
8. **Riley B**, Asherson P and McGuffin P (2003). Genetics of Schizophrenia, in Schizophrenia (2nd Edition), Hirsch SR and Weinberger DR, (eds.), pp 251-276 (Oxford:Blackwell Science).

LAY PRESS INTERVIEWS OR PUBLICATIONS

Oct 2002 Press conference, 2002 American Society of Human Genetics meeting.

EXTRAMURAL PRESENTATIONS

INVITED PRESENTATIONS

June 2007

Riley B. Common Genetic Variants in Schizophrenia.

Invited workshop presentation.

Department of Health and Human Services (DHHS), National Institutes of Health (NIH) and National Institute of Mental Health (NIMH).

Child/Adolescent Onset Schizophrenia Workshop, Rockville, MD.

May 2007

Riley B. Molecular Genetic Studies of Schizophrenia and Alcohol Dependence.

Grand rounds.

Washington DC Veterans Administration Hospital, Psychiatry Department.

April 2007

Riley B. Beyond Positional Cloning and Association in Schizophrenia: the search for causal variation in DTNBP1 and potential interactions with the AKT1 pathway.

Symposium.

2007 International Congress on Schizophrenia Research, Colorado Springs, CO.

Nov 2004

Riley B. Childhood Adversity, MAO-A Genotype and Risk for Conduct Disorder.

Invited speaker.

European Foundation for Psychiatry at the Maudsley

Beyond Nature and Nurture: Genes, Environment and their Interplay in Psychiatry, London, UK.

Nov 2003

Riley B. Linkage studies of schizophrenia.

Invited speaker.

Fundación Cerebro y Mente

Genes and Environment Interplay in Neuropsychiatric Disorders, Mojácar, Spain.

June 2002

Riley B. A 3Mb map of a large segmental duplication overlapping the $\alpha 7$ nicotinic acetylcholine receptor gene (*CHRNA7*) at human 15q13-q14.

Invited Speaker

Virginia Bioinformatics Consortium, VCU Life Sciences, VCU Institute for Structural Biology and Drug Discovery, VCU Center for the Study of Biological Complexity

1st Bioinformatics and Pharmacogenomics Symposium, Richmond VA.

Dec 2001

Riley B. Haplotype transmission disequilibrium in the alpha 7 nicotinic acetylcholine receptor subunit (*CHRNA7*) gene region in schizophrenia families.

Invited Speaker

York State Office of Mental Health

14th New York State Office of Mental Health Research Conference, Albany, NY.

ORAL AND POSTER MEETING PRESENTATIONS

Riley B, Kalsi G, Kuo P-H, Alexander J, Sullivan P, van den Oord E, Patterson D, Walsh D, Prescott C, Kendler K (2007). Fine-mapping an 18MB alcohol dependence susceptibility locus on 4q22-q32 in the Irish Affected Sib-Pair Study of Alcohol Dependence (IASPSAD). WCPG 2007 Abstract O5-3, http://www.wcpq2007.com/files/FINAL_ABSTRACTS.pdf; <http://www.ashq.org/genetics/ashq06s/index.shtml>.

Oral presentation at 2007 World Congress on Psychiatric Genetics (New York, NY) and **Poster presentation** 2007 American Society of Human Genetics (San Diego, CA).

Vladimirov V, McMichael O, O'Neill FA, Walsh D, Kendler K, **Riley B** (2007). Fine-mapping of schizophrenia susceptibility locus in the Irish High Density Schizophrenia Families (ISHDSF) sample. WCPG 2007 Abstract 332, http://www.wcpq2007.com/files/FINAL_ABSTRACTS.pdf;

Poster presentation at 2007 World Congress on Psychiatric Genetics (New York, NY).

Adkins A, Kalsi G, Kuo P-H, Parikh N, Alexander J, Patterson D, Walsh D, Kendler K, Prescott C, **Riley B** (2007). Initial validation of pooled whole genome association scan for alcohol dependence (AD) in the Irish Affected Sib-Pair Study of Alcohol Dependence (IASPSAD). WCPG 2007 Abstract 497, http://www.wcpq2007.com/files/FINAL_ABSTRACTS.pdf;

Poster presentation at 2007 World Congress on Psychiatric Genetics (New York, NY).

Kalsi G, Kuo P-H, Alexander J, Sullivan P, van den Oord E, Patterson D, Walsh D, Prescott C, Kendler K, **Riley B** (2007). The role of glutamate receptors in the Irish Affected Sib-Pair Study of Alcohol Dependence (IASPSAD). WCPG 2007 Abstract 498, http://www.wcpq2007.com/files/FINAL_ABSTRACTS.pdf; *Alcoholism: Clinical and Experimental Research* **31 (supp)**: 71A;

Poster presentation at the 2007 World Congress on Psychiatric Genetics (New York, NY) and Research Society on Alcoholism meetings (Chicago, IL).

Alexander J, Kalsi G, Kuo P-H, Patterson D, Walsh D, Kendler K, Prescott C, **Riley B** (2007). Genetic association of alcohol dependence with the human orthologs of *Drosophila hangover* in the the Irish Affected Sib-Pair Study of Alcohol Dependence (IASPSAD) sample. WCPG 2007 Abstract 499, http://www.wcpq2007.com/files/FINAL_ABSTRACTS.pdf;

Poster presentation at 2007 World Congress on Psychiatric Genetics (New York, NY).

Kuo P-H, Kalsi G, Alexander J, Sullivan PF, van den Oord EJCG, Patterson DG, Walsh D, Prescott CA, Kendler KS, **Riley BP** (2007). The association of alpha-1A and alpha-2B adrenoceptors with alcohol dependence in the Irish Affected Sib Pair Study. *Alcoholism: Clinical and Experimental Research* **31 (supp)**: 130A

Poster presentation 2007 Research Society on Alcoholism meeting (Chicago, IL).

Prescott C, Kuo P-H, Kalsi G, Walsh D, Patterson D, Kendler K, **Riley B** (2007). Mediation of genetic influences on alcoholism severity by drinking motives and alcohol sensitivity. *Alcoholism: Clinical and Experimental Research* **31 (supp)**: 133A

Poster presentation 2007 Research Society on Alcoholism meeting (Chicago, IL).

Riley B, Kalsi G, Kuo P-H, Vladimirov V, Thiselton DL, Vittum J, Wormley B, Grotewiel MS, Patterson DG, Sullivan PF, van den Oord EJ, Walsh D, Kendler KS, Prescott CA (2006). Alcohol dependence is associated with the *ZNF699* gene, a human locus related to *Drosophila hangover*, in the Irish Affected Sib Pair Study of Alcohol Dependence (IASPSAD) sample. *Alcoholism: Clinical and Experimental Research* **30 (supp)**:164A; *American Journal of Medical Genetics: Neuropsychiatric Genetics* **141B**: 699; *American Journal of Human Genetics* **76 (supp)**: A17.

Oral presentation at 2006 World Congress on Psychiatric Genetics (Cagliari, Italy) and 2006 American Society of Human Genetics meetings (New Orleans, LA). **Poster presentation** at 2006 Research Society on Alcoholism meeting (Baltimore, MD).

Riley B, Thiselton DL, Vladimirov VI, Ribble RC, Wormley BK, Frank G, Tabatabai B, Neale B, Webb BT, van den Oord EJCG, O'Neill FA, Walsh D, Kendler KS (2006). Update on the search for schizophrenia liability variation in the *DTNBP1* gene in the Irish study of high density schizophrenia families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **141B**: 702.

Oral presentation at 2006 World Congress on Psychiatric Genetics (Cagliari, Italy).

Kalsi G, Kuo P-H, Alexander JA, Sullivan PF, van den Oord EJ, Patterson DG, Walsh D, Kendler KS, Prescott CA, **Riley B** (2006). Fine-mapping an 18 Mb alcohol dependence susceptibility locus on 4q22-q32 using tag SNPs. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **141B**: 699.

Oral presentation at 2006 World Congress on Psychiatric Genetics (Cagliari, Italy).

Fanouf A, van den Oord EJ, Zhao Z, Wormley B, Amdur R, O'Neill FA, Walsh D, Kendler KS, **Riley B** (2006). SNAP-25 is associated with schizophrenia in 270 Irish high density families, following genome-wide significant linkage to chromosome 20p12.3-q13.2 using latent classes of psychotic illness. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **141B**: 717.

Oral presentation at 2006 World Congress on Psychiatric Genetics (Cagliari, Italy).

Levinson DF, Gejman PV, Laurent C, Owen MJ, Pulver AE, **Riley B**, Holmans PA, Wildenauer DB, Kendler KS, Mallet J, Mowry BJ, Nestadt G, O'Donovan MC, Sanders AR, Schwab SG, Williams NM, Albus M, Bauché S, deMarchi N, Dikeos D, Duan J, Jay M, Lasseter VK, Lerer FB, Maier W, Nertney DA, Nikolov I, Norton N, O'Neill A, Papadimitriou G, Segurado R, Silverman JM, Walsh D, Williams H, Holmans PA (2006). Genomewide SNP linkage scan of schizophrenia in a large multicenter sample. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **141B**: 697.

Oral presentation at 2006 World Congress on Psychiatric Genetics (Cagliari, Italy).

Edwards T, Wang X, Wormley B, **Riley B**, O'Neill FA, Walsh D, Kendler KS, Ritchie MD, Chen X (2006). Evidence of interaction between *DTNBP1* and *IL3* in schizophrenia (2006). *American Journal of Medical Genetics: Neuropsychiatric Genetics* **141B**: 719.

Oral presentation at 2006 World Congress on Psychiatric Genetics (Cagliari, Italy).

Kuo P-H, Wormley B, O'Neill FA, Walsh D, Kendler KS, **Riley B** (2006). The Dystrobrevin binding protein 1 (*DTNBP1*) gene is associated with schizophrenia in the

Irish case-control study of schizophrenia (ICCSS) sample. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **141B**: 801.

Poster presentation at 2006 World Congress on Psychiatric Genetics (Cagliari, Italy).

Kuo P-H, Kalsi G, Prescott CA, Vittum J, Sullivan PF, van den Oord EJ, Patterson DG, Walsh D, Kendler KS, **Riley B** (2006). The association of ADH gene cluster with alcohol dependence in the Irish affected sib-pair study. *Alcoholism: Clinical and Experimental Research* **30 (supp)**:10A

Poster presentation at 2006 Research Society on Alcoholism meeting (Baltimore, MD).

Mazefsky C, Goin-Kochel R, **Riley B**, Neale M, Maes H and the Autism Genetic Resource Exchange (2006). Genetic effects for predictors of ABA treatment success.

Poster presentation at 2006 International Meeting for Autism Research (Montreal, Canada).

Goin-Kochel R, Mazefsky C, **Riley B** (2006) Level of functioning in autism spectrum disorders: phenotypic congruence among affected siblings.

Poster presentation at 2006 International Meeting for Autism Research (Montreal, Canada).

Riley B, Thiselton DL, Vladimirov VI, Ribble RC, Wormley BK, Frank G, Tabatabai B, Neale B, Webb BT, van den Oord EJCG, Walsh D, O'Neill FA, Kendler KS (2005). Beyond positional cloning and association: the search for schizophrenia liability variation in the DTNBP1 gene in the Irish study of high density schizophrenia families (ISHDSF). *American Journal of Medical Genetics: Neuropsychiatric Genetics* **138B**: 8.

Oral presentation at 2005 World Congress on Psychiatric Genetics (Boston, MA).

Kalsi G, Kuo P-H, Vittum J, Sullivan PF, Van den Oord EJCG, Patterson DG, Walsh D, Kendler KS, Prescott CA, **Riley B** (2005). Further evidence in support of allelic and haplotypic association of GABA_A receptors and alcohol dependence in an Irish sample.

American Journal of Medical Genetics: Neuropsychiatric Genetics **138B**: 35;

American Journal of Human Genetics **75 supplement**: A1807.

Poster presentation at 2005 World Congress on Psychiatric Genetics (Boston, MA) and American Society of Human Genetics Meeting (Salt Lake City, UT).

Thiselton DL, Vladimirov VI, Kuo P-H, Wormley BK, O'Neill FA, Walsh D, Kendler KS, **Riley B** (2005). Association of AKT1 with schizophrenia confirmed in the Irish study of high density schizophrenia families (ISHDSF). *American Journal of Medical Genetics: Neuropsychiatric Genetics* **138B**: 93; *American Journal of Human Genetics* **75**

supplement: A1706.

Poster presentation at 2005 World Congress on Psychiatric Genetics (Boston, MA) and American Society of Human Genetics Meeting (Salt Lake City, UT).

Kuo P-H, **Riley B**, Webb B, Sullivan P, Vittum J, Patterson D, Neale M, Van den Oord E, Walsh D, Kendler K, Prescott C (2005). Identification of susceptibility loci for alcohol-related traits in the Irish affected sib-pair study of alcohol dependence. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **138B**: 102.

Poster presentation at 2005 World Congress on Psychiatric Genetics (Boston, MA).

Fanous AH, Neale MC, **Riley BP**, Straub RE, O'Neill FA, Walsh D, Kendler KS (2005). Genome scan of latent classes of psychotic illness. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **138B**: 121.

Poster presentation at 2005 World Congress on Psychiatric Genetics (Boston, MA).

Vladimirov V, Thiselton DL, Kuo P-H, Wormley BR, Vittum J, Ribble R, O'Neill FA, Walsh D, Kendler K, **Riley B** (2005). Trace amine receptor 4 (TRAR4) gene is associated with schizophrenia in the Irish study of high density schizophrenia families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **138B**: 139; *American Journal of Human Genetics* **75 supplement**: A1707.

Poster presentation at 2005 World Congress on Psychiatric Genetics (Boston, MA) and American Society of Human Genetics Meeting (Salt Lake City, UT).

Prescott CA, Kuhn JW, Vittum J, **Riley BP**, Kendler KS (2004). Gene-environment interactions in psychiatric disorders: substantive findings and methodological challenges. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **130B**: 10.

Oral presentation at 2004 World Congress on Psychiatric Genetics (Dublin, Ireland).

Prescott CA, Sullivan PF, Webb BT, Vittum J, Patterson DG, Neale MC, van den Oord EJ, Walsh D, **Riley BP**, Kendler KS (2004). Linkage of alcohol dependence symptoms to chromosome 4 in the Irish affected sib-pair study of alcohol dependence. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **130B**: 22.

Oral presentation at 2004 World Congress on Psychiatric Genetics (Dublin, Ireland).

Prescott CA, Sullivan PF, Vittum J, Patterson DG, van den Oord EJ, Walsh D, Kendler KS, **Riley BP** (2004). Association between the serotonin transporter gene and alcohol dependence in the Irish affected sib-pair study of alcohol dependence. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **130B**: 112.

Poster presentation at 2004 World Congress on Psychiatric Genetics (Dublin, Ireland).

Riley B, Thiselton DL, Ribble RC, Wormley BK, Frank G, van den Oord EJCG, Walsh D, O'Neill FA, Kendler KS (2004). Variation screening of a high risk haplotype in the dystrobrevin binding protein 1 (DTNBP1) gene from the Irish study of high density schizophrenia families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **130B**: 132.

Poster presentation at 2004 World Congress on Psychiatric Genetics (Dublin, Ireland).

Fanous AH, van den Oord EJ, **Riley BP**, Aggen SH, Neale MC, O'Neill FA, Walsh D, Kendler KS (2004). Relationship between a high-risk haplotype in the dystrobrevin binding protein 1 (DTNBP1) gene and clinical features of schizophrenia. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **130B**: 134.

Poster presentation at 2004 World Congress on Psychiatric Genetics (Dublin, Ireland).

Thiselton DL, Wormley BK, Webb BT, Neale B, Ribble RC, O'Neill FA, Walsh D, Kendler KS, **Riley BP** (2004). Positive association between G72/G30 gene markers on chromosome 13q33 and schizophrenia in the Irish study of high density schizophrenia

families (ISHDSF). *American Journal of Medical Genetics: Neuropsychiatric Genetics* **130B**: 134.

Poster presentation at 2004 World Congress on Psychiatric Genetics (Dublin, Ireland).

Webb BT, van den Oord EJCG, Kendler KS, **Riley BP**, O'Neill FA, Walsh D, Chen X, Neale MC (2004). Schizophrenia Linkage on chromosome 5q after stratification by DTNBP1 highrisk haplotype and association with *HINT1* in the ISHDSF. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **130B**: 141.

Poster presentation at 2004 World Congress on Psychiatric Genetics (Dublin, Ireland).

Riley B, van den Oord EJCG, Thiselton DL, Wormley BK, Ribble RC, Chen X, Frank G, O'Neill FA, Walsh D, Kendler KS (2004). Identification and variation screening of a high risk haplotype in the dystrobrevin binding protein 1 (DTNBP1) gene from the Irish study of high density schizophrenia families. *Schizophrenia Research* **67 supplement**: 27.

Oral presentation at the 12th Biennial Winter Workshop on Schizophrenia, 2004 (Davos, Switzerland).

Riley B, Thiselton DL, Wormley BK, Ribble RC, Frank G, van den Oord EJCG, Walsh D, O'Neill FA, Kendler KS (2003) A complete map of sequence variation in the DTNBP1 high-risk haplotype from schizophrenics in the Irish Study of High Density Schizophrenia Families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **122B**: 17; *American Journal of Human Genetics* **73 supplement**: 527.

Oral presentation at 2003 World Congress on Psychiatric Genetics (Quebec City, Canada); **Poster presentation** at 2003 American Society of Human Genetics Meeting (Los Angeles, CA).

Thiselton DL, Webb BT, Ribble R, O'Neill FA, Walsh D, Kendler KS, **Riley BP** (2003). Linkage and association analysis of polymorphisms in the neuregulin-1 gene (*NRG1*) with schizophrenia in a collection of Irish high density families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **122B**: 173; *American Journal of Human Genetics* **73 supplement**: 536.

Poster presentation at 2003 World Congress on Psychiatric Genetics (Quebec City, Canada) and 2003 American Society of Human Genetics Meeting (Los Angeles, CA).

Vittum J, Prescott CA, Kuhn J, Sullivan PF, Kendler KS and **Riley B** (2003). Serotonin and dopamine system candidate gene studies of novelty seeking, extroversion and neuroticism in a large unselected population-based sample. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **122B**: 142; *American Journal of Human Genetics* **73 supplement**: 535.

Poster presentation at 2003 World Congress on Psychiatric Genetics (Quebec City, Canada) and 2003 American Society of Human Genetics Meeting (Los Angeles, CA).

Foley DL, Wormley B, Maes HH, Silberg JL, Eaves LJ and **Riley B** (2003). A range of known risk factors for conduct disorder interact with low MAO-A activity to increase risk. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **122B**: 145; *American Journal of Human Genetics* **73 supplement**: 541.

Poster presentation at 2003 World Congress on Psychiatric Genetics (Quebec City, Canada) and 2003 American Society of Human Genetics Meeting (Los Angeles, CA).

Webb BT, Neale MC, van den Oord EJCG, Fanous AH, Kendler KS and **Riley BP** (2003). Increased evidence for schizophrenia linkage to 8p after stratification by DTNBP1 high-risk haplotype. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **122B**: 164; *American Journal of Human Genetics* **73 supplement**: 502.

Poster presentation at 2003 World Congress on Psychiatric Genetics (Quebec City, Canada) and 2003 American Society of Human Genetics Meeting (Los Angeles, CA).

Riley BP, van den Oord EJCG, Jiang Y, Sullivan PF, Chen X, O'Neill FA, Walsh D, Kendler KS (2002). Identification of a high risk haplotype for the dystrobrevin binding protein 1 (DTNBP1) gene in the Irish Study of High Density Schizophrenia Families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **114**: 741; *American Journal of Human Genetics* **71 supplement**: 194.

Oral presentation at 2002 World Congress on Psychiatric Genetics (Brussels, Belgium) and American Society of Human Genetics meetings, (Baltimore, MD).

Anderson V, Thiselton DL, Howard K, Dobb R, Mill K, Ribble R, Williamson R, **Riley B** (2002). Molecular characterization, IQ and executive function in a sample of Turner syndrome cases from Australia. *American Journal of Human Genetics* **71 supplement**: 309.

Poster presentation at 2002 American Society of Human Genetics meeting (Baltimore, MD).

Thiselton DL, Brandau O, Meindl A, **Riley BP**, Kendler KS, van Maldergem L, Hardcastle AJ (2002). Characterization of a microdeletion in Xp11.23 cosegregating in a small family with X-linked retinitis pigmentosa (RP2) and psychosis. *American Journal of Human Genetics* **71 supplement**: 508

Poster presentation at 2002 American Society of Human Genetics meeting (Baltimore, MD).

Riley BP, Williamson M, Wilkie H, Collier D, and Makoff A (2001). Major structural polymorphisms in the nicotinic acetylcholine receptor alpha-7 subunit (CHRNA7) partial duplication on chromosome 15q13-q14. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **105**: 568; *American Journal of Human Genetics* **69 supplement**: 583.

Oral presentation at 2001 World Congress on Psychiatric Genetics (St. Louis, MO);

Poster presentation at 2001 American Society of Human Genetics Meeting (San Diego, CA).

Jiang Y, Wormley B, Wang X, **Riley BP**, Chen X, Kendler K and Straub R (2001). Lack of evidence to support the strong association of NOTCH4 gene polymorphism to schizophrenia. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **105**: 571

Oral presentation at 2001 World Congress on Psychiatric Genetics (St. Louis, MO).

Jiang Y, Kendler K, Chen X, Straub R and **Riley BP** (2001). Identification of genes from a schizophrenia susceptibility locus on 6p24 using bioinformatics and genome mapping. *American Journal of Human Genetics* **69 supplement**: 544.

Poster presentation at 2001 American Society of Human Genetics Meeting (San Diego, CA).

Riley BP, Mogudi-Carter M, Jenkins T, Williamson R, Collier D, Murray RM and Makoff A (2001). The Alpha-7 nicotinic acetylcholine receptor subunit and schizophrenia: beyond linkage evidence in a duplicated gene. *Schizophrenia Research* **49**: S78.

Poster presentation at 2001 International Congress on Schizophrenia Research (Whistler, Canada).

Riley BP, Makoff AM, Mogudi-Carter M, Jenkins TJ, Williamson R, Collier DA and Murray RM (2000). Haplotype transmission disequilibrium in the alpha 7 nicotinic acetylcholine receptor subunit (CHRNA7) gene region in schizophrenia families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **96**: 532.
Poster presentation at 2000 World Congress on Psychiatric Genetics (Versailles, France).

Riley BP, Makoff AM, Mogudi-Carter M, Jenkins TJ, Williamson R, Collier DA and Murray RM (2000). High marker-density analyses of the alpha 7 nicotinic cholinergic receptor subunit (CHRNA7) gene region on chromosome 15q13-q14 and 5' RAGE cloning of fragments specific to CHRNA7 or its partial duplication. *Schizophrenia Research* **41**: 93.
Poster presentation at the 10th Biennial Winter Workshop on Schizophrenia, 2000 (Davos, Switzerland).

Riley BP, Mogudi-Carter M, Jenkins T, Williamson R, Collier DA and Murray RM (1999). High marker density sib pair and transmission disequilibrium analysis of the alpha-7 nicotinic cholinergic receptor gene region on chromosome 15q13-q14 in South African Bantu schizophrenic families. *Molecular Psychiatry* **4**: S112.
Poster presentation at 1999 World Congress on Psychiatric Genetics (Monterrey, CA).

Riley BP, Makoff AM, Mogudi-Carter M, Jenkins TJ, Williamson R, Collier DA and Murray RM (1999). Upstream cloning methods applied to intronic sequence: cloning the insertion point of the partial duplication of the a-7 nicotinic cholinergic receptor subunit (CHRNA7) gene on chromosome 15q13-q14. *American Journal of Human Genetics* **65**: A418.
Poster presentation at 1999 American Society of Human Genetics Meeting (San Francisco, CA).

Riley BP, Mogudi-Carter M, Jenkins T, Williamson R, Collier DA and Murray RM (1999). Evidence for involvement of the alpha 7 nicotinic cholinergic receptor gene on chromosome 15q13-q14 in schizophrenia in South African Bantu-speaking families. *Schizophrenia Research* **36**: 101.
Poster presentation at 1999 International Congress on Schizophrenia Research (Santa Fe, NM).

Riley BP, Mogudi-Carter M, Razali MS, Sidek MR, Isa MN, Jenkins TJ, Williamson R, Collier DA and Murray RM (1998). Replication of suggestive evidence linking the alpha 7 nicotinic cholinergic receptor gene on chromosome 15q13-q14 to schizophrenia in Bantu and Malay families. *Schizophrenia Research* **29**: 130.
Poster presentation at the 9th Biennial Winter Workshop on Schizophrenia, 2000 (Davos, Switzerland).

Riley BP, Lin M-W, Mogudi-Carter M, Jenkins T, R Williamson, Collier DA, Powell JF and Murray RM (1997). A linkage study of chromosome 13q14.1-q32 and schizophrenia in South African Bantu-speaking families. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **74**: 671.
Oral presentation at the 1997 World Congress on Psychiatric Genetics (Santa Fe, NM).

Riley BP, Mogudi-Carter M, Jenkins T, Williamson R, Collier DA and Murray RM (1997). Further suggestive evidence for the involvement of the $\alpha 7$ -nicotinic cholinergic receptor subunit gene on chromosome 15q13-q14 in schizophrenia. *American Journal of Medical Genetics: Neuropsychiatric Genetics* **74**: 636; *American Journal of Human Genetics* **61**: A402.

Poster presentation at 1997 World Congress on Psychiatric Genetics (Santa Fe, NM) and 1997 American Society of Human Genetics Meeting (Baltimore, MD).

Riley BP, Tahir E, Rajagopalan S, Mogudi-Carter M, Jenkins T, R Williamson (1996). Linkage studies of the N-methyl-D-aspartate receptor subunit gene regions and schizophrenia in southern African Bantu-speaking families. *Psychiatric Genetics* **6**: 143; *American Journal of Human Genetics* **59**: A387.

Poster presentation at 1996 World Congress on Psychiatric Genetics (San Francisco, CA) and 1996 American Society of Human Genetics Meeting (San Francisco, CA).

Riley BP, Tahir E, Mogudi-Carter M, Rajagopalan S, Fauré S, Weissenbach J, Jenkins T, Williamson R (1996). Preliminary results from a linkage study of the N-methyl-D-aspartate (NMDA) receptor subunit genes in a sample of southern African Bantu-speaking families multiply affected with schizophrenia. Abstract IX.C.3, *Schizophrenia Research* **18**: 167.

Poster presentation at the 8th Biennial Winter Workshop on Schizophrenia, 1996 (Davos, Switzerland).

Riley BP, Mogudi-Carter M, Rajagopalan S, Jenkins T, Williamson R (1995). No evidence for linkage of schizophrenia to the short arm of chromosome 6 in a sample of southern African Bantu-speaking families. *Psychiatric Genetics* **5**: S34; Abstract 1158, *American Journal of Human Genetics* **57**: A201.

Oral presentation at the 1995 World Congress on Psychiatric Genetics (Cardiff, Wales).

Poster presentation at 1995 American Society of Human Genetics Meeting (Minneapolis, MN).

Daniels JK, Williams NM, Williams J, Jones LA, Cardno AG, Murphy KC, Scott L, Spurlock G, **Riley B**, Scambler P, Asherson P, McGuffin P, Owen MJ (1995). No evidence for allelic association between schizophrenia and a polymorphism determining high or low catechol-O-methyltransferase activity. *Psychiatric Genetics* **5**: S13.

Oral presentation at the 1995 World Congress on Psychiatric Genetics (Cardiff, Wales).

TEACHING, ADVISING AND MENTORING

Virginia Commonwealth University

2001- Lecture, **Complex Trait Genetics: Schizophrenia**. VCU HGen 603, team-taught course Mathematical and Statistical Genetics. 12 Human Genetics Graduate Students, 1 contact hour. Organizer: Dr. Tim York.

Apr 2001 VCU Human Genetics Departmental Seminar: Major structural polymorphisms in the nicotinic acetylcholine receptor alpha-7 subunit (CHRNA7) partial duplication on chromosome 15q13-q14.

2001- 2-3 Virginia Institute for Psychiatric and Behavioral Genetics Seminars and/or Journal Clubs per year
eg, Dec 2006 seminar Copy Number Variation;
Apr 2007 Journal Club: Sebat J et al (2007) Strong association of *de novo* copy number mutations with autism. *Science* Apr 20; **316** (5823):445-9.

Sep 2002 VCU Psychiatry Grand Rounds: Identification of a high risk haplotype for the dystrobrevin binding protein 1 (DTNBP1) gene in the Irish Study of High Density Schizophrenia Families.

2004- 2 Lectures, **Non-Mendelian Inheritance: Mitochondrial Inheritance, Imprinting, Trinucleotide Repeat Expansion.** VCU HGen 501, team-taught Human Genetics Core Course. 30 Human Genetics Graduate Students, 3 contact hours.
Organizer: Dr. Linda Corey.

2006- Lecture, **Association in Complex Traits.** VCU HGen 614, team-taught course Human Biochemical and Molecular Genetics. 15 Human Genetics Graduate Students, 2 contact hours. Organizer: Dr. Joyce Lloyd.

2006- Short Course, **Molecular Genetics and Biology.** Virginia Institute for Psychiatric and Behavioral Genetics. 4 week didactic/4 week contemporary topic seminar Spring course for 10-15 VIPBG and other pre-doctoral, post-doctoral, research associate and faculty, 8 contact hours.

Nov 2006 Guest Lecture, **The Common Disease/Common Variant Model of Complex Trait Genetics.** Psychology Department Graduate Course, Special Topics: Evolutionary Psychology. 6 Psychology Graduate Students, 1 contact hour. Organizer: Dr. Tom Leahy.

2007- Lecture, **Psychiatric Genetics** PGY II didactics. 8 PGY II residents, 1 contact hour.

2007- Lecture, **Molecular Biology and Behavioral Genetics** PGY III didactics. 8 PGY III residents, 2 contact hours.

2008- **Course Director** (with Dr. Hermine Maes), HGen 502, Human Genetics Core Course Semester 2, Quantitative and Complex Trait Genetics. As member of Human Genetics Curriculum Committee, participated in development of revised curriculum for first year graduate students, and as Course Director for HGen 502, will implement the Committee's recommended changes and additions to core structure and content. Responsible for complex trait and contemporary topics (copy number variation, genomewide association) content.

Junior Faculty Mentor, VCU

R. Roberson-Nay (2007-present) K01 mentor, molecular genetics.

S. Mazzeo (2001-2006). K01 mentor, molecular genetics.

Post-doctoral Training Grant Supervisor, VCU

D. Kertes PhD (2006-2008).

C. Mazefsky PhD (2005-2006; now Assistant Professor, Departments of Pediatrics & Psychiatry, University of Pittsburgh Medical Center).

R. Goin-Kochel PhD (2004-2005; now Assistant Professor, Department of Molecular & Human Genetics, Baylor College of Medicine).

Post-doctoral Research Fellow Supervisor, VCU

G. Kalsi PhD (2004-present).

V. Vladimirov MD, PhD (2004-2007; now Assistant Professor, Department of Psychiatry, Virginia Commonwealth University).

D. Thiselton PhD (2002-present).

PhD Student Supervisor, VCU

A. Adkins (PhD program, Human Genetics). Identification of genes for alcohol dependence from pooled genomewide association. Expected 2011.

A. Kim (MD/PhD program). RNA and protein expression studies of *DTNBP1* in schizophrenia. Expected 2010.

PhD and Thesis Advisory Committees, VCU

S. Bergen (PhD, VIPBG predoctoral training grant). Expected 2009.

P. Papavassiliou (MD/PhD). Expected 2008.

E. Prom (PhD, Integrated Life Sciences, now Post-Doctoral Fellow, Virginia Institute for Psychiatric and Behavioral Genetics, Virginia Commonwealth University). Awarded 2007.

B. T. Webb (PhD, Human Genetics, now Research Assistant Professor, Department of Pharmacy, Virginia Commonwealth University). Awarded 2002.

External PhD Thesis Examiner, 2 External Students

J. Ekholm (PhD, Genetics, University of Helsinki, Finland). 2006.

T. Van Agtmael (PhD, Genetics, University of Melbourne, Australia). 2001.

Institute of Psychiatry, Kings College London

1998-1999 Lecture, **Basic Molecular Genetics**. Psychiatric Nursing MSc, Institute of Psychiatry, Kings College London, University of London. 10 Psychiatric Nursing Students, 1 contact hour.

1998-1999 Lecture, **Molecular Genetics of Schizophrenia**. Psychiatric Nursing MSc, Institute of Psychiatry, Kings College London, University of London. 10 Psychiatric Nursing Students, 1 contact hour.

1998-1999 Lecture, **Molecular Genetics of Schizophrenia**. Medical BSc, Kings College London, University of London. 20 MBBS Students, 1 contact hour.

2000-2001 Lecture, **Introduction to Genetics of Human Disorders**. MRC Centre for Social, Genetic and Developmental Psychiatry Research Summer School. 8 entering Graduate Students, 1 contact hour.

2000-2001 Lecture, **Analysis of Single Gene Traits**. MRC Centre for Social, Genetic and Developmental Psychiatry Research Summer School. 8 entering Graduate Students, 1 contact hour.

2000-2001 Lecture, **Analysis of Complex Traits**. MRC Centre for Social, Genetic and Developmental Psychiatry Research Summer School. 8 entering Graduate Students, 1 contact hour.

2000-2001 Lecture, **Practical Lab Approaches**. MRC Centre for Social, Genetic and Developmental Psychiatry Research Summer School. 8 entering Graduate Students, 4 contact hours.

Neuroscience MSc, Institute of Psychiatry, Kings College London

MSc Thesis Project Supervisor: S. Warne, Genotyping duplicated markers: a comparison of three methods. Awarded 1998.

Imperial College School of Medicine at St. Mary's

1993-1994 Lecture, **Psychiatric Genetics**. Molecular Genetics MSc, Imperial College School of Medicine at St. Mary's. 12 MSc Students, 1 contact hour.

1993-1994 Lecture and Practical, **Theory and Practice of Polymerase Chain Reaction**. Molecular Genetics MSc, Imperial College School of Medicine at St. Mary's. 12 MSc Students, 1 contact hour.

1994-1996 Tutor, **Medical Genetics**. Medical BSc, Imperial College School of Medicine at St. Mary's. 20 MBBS Students, 20 contact hours.

1995-1996 Lecture, **Psychiatric Genetics**. Molecular Genetics MSc, Imperial College School of Medicine at St. Mary's. 12 MSc Students, 1 contact hour.

1995-1996 Lecture, **LOD Scores**. Molecular Genetics MSc, Imperial College School of Medicine at St. Mary's. 12 MSc Students, 1 contact hour.

Molecular Genetics MSc, Imperial College School of Medicine at St. Mary's

MSc Thesis Project Supervisor: E. Tahir, A linkage study of the NMDAR1 gene and schizophrenia. Awarded 1995.

MSc Thesis Project Supervisor: M. Nestora, A linkage study of neural cell adhesion molecules and schizophrenia. Awarded 1994.

SERVICE ACTIVITIES

SERVICE TO THE COMMUNITY

Apr 1998 Presentation to the annual meeting of the UK Psychiatry Research Trust, a lay charitable organization whose goal is to lobby parliament and secure private charitable donations for expanded mental health research.

2001- Yearly lecture to Advanced Placement Genetics class, the Maggie Walker Governor's School.

May 2001 Presentation to the annual meeting of the Alliance for the Mentally Ill-Virginia Beach, the Hampton Roads area affiliate of the National Alliance for the Mentally Ill (NAMI), a lobbying, fundraising and education charity whose goal is to represent and further the interests of mentally ill people.

Mar 2002 Presentation to the inaugural conference of the Autism Program of Virginia (TAP-VA) a lay lobbying and policy organization whose goal is to provide leadership in the implementation of a statewide system of services for people with autism.

Aug 2003 Lecturer, NIH funded Advanced Placement Genetics Teacher Training Workshop, organized by Martha Hicks (Advanced Placement Genetics Teacher, Maggie Walker Governor's School).

Nov 2003 Lecture to Advanced Placement Genetics class, Henrico High School.

SERVICE TO THE SCHOOL

2006-2007 Produced Department of Psychiatry HEETF competition request material supporting successful core facility acquisition of major capital equipment (Roche/454 sequencer, 2006 and Illumina BeadStation, 2007) by The School of Medicine Nucleic Acids Research Facility under the direction of Dr. Greg Buck.

SERVICE TO THE DEPARTMENT

2006- Curriculum Committee, Human Genetics Department. Major reorganization of Human Genetics HG 501/502 Graduate Core Course.

2006- Psychiatry Department R25 Resident Research Training Grant Working Group. Convened by Dr. Silverman to develop proposal for NIH training grant funding. Chair: Dr. Bela Sood.

2007- Autism Research Group. Working group to establish autism research goals and develop strategic plans for research initiatives addressing multiple needs across the VCU Psychiatry Department. Chair: Dr. Bob Cohen.

References

Professor Kenneth Kendler, Rachel Brown Banks Distinguished Professor of Psychiatry
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Director, Virginia Institute for Psychiatric and Behavioral Genetics
Departments of Human Genetics and Psychiatry, Virginia Commonwealth University
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MRC Centre for Social, Genetic and Developmental Psychiatry Research
Institute of Psychiatry, Kings College London
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Professor Bob Williamson (retired)
Formerly Director, The Murdoch Institute
Royal Children's Hospital
Flemington Road, Parkville 3052
Melbourne, Australia
r.williamson@unimelb.edu.au