

CURRICULUM VITAE

Date Prepared: December 17, 2009
Name: Deborah Blacker, MD, ScD
Office Address: Psychiatry/Gerontology (149-2691), Mass. General Hospital East, 149 13th Street, Charlestown, MA 02129-2000
Home Address: 31 Brookdale Road, Newtonville, MA 02460
Work Phone: 617-726-5571
Work E-mail: blacker@psych.mgh.harvard.edu
Work Fax: 617/726-5760
Place of Birth: Glendale, California

Education

1979	BS	Stanford University (Biological Sciences)
1981	AB	Stanford University (Religious Studies, with Honors in Humanities)
1984	MD	Harvard Medical School (Medicine)
1992	ScD	Harvard School of Public Health (Epidemiology; advisor Ming T. Tsuang, MD, PhD)

Postdoctoral Training

1984-1985	Intern in Medicine	New England Deaconess Hospital
1985-1988	Resident in Psychiatry	Mass. General Hospital
1988-1991	Fellowship in Psychiatric Epidemiology	Harvard School of Public Health

Faculty Academic Appointments

1991-1994	Instructor in Psychiatry	Harvard Medical School
1993-1995	Instructor in Epidemiology	Harvard School of Public Health
1995-2002	Assistant Professor of Psychiatry	Harvard Medical School
1995-2002	Assistant Professor in Epidemiology	Harvard School of Public Health
2002-	Associate Professor of Psychiatry	Harvard Medical School
2002-	Associate Professor in Epidemiology	Harvard School of Public Health

Appointments at Hospitals/Affiliated Institutions

1988-1991	Graduate Assistant in Psychiatry	Mass. General Hospital
1991-1995	Clinical Assistant in Psychiatry	Mass. General Hospital
1995-2001	Assistant in Psychiatry	Mass. General Hospital
2001-2004	Assistant Psychiatrist	Mass. General Hospital
2004-	Psychiatrist	Mass. General Hospital

Other Professional Positions

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| 2001 | Senior Consultant, Technical Assessment Panel, PET and Other Neuroimaging Studies in the Management of Patients with Alzheimer's Disease, Agency for Health Care Policy Research, Department of Health and Human Services |
| 2007 | Member, Rosiglitazone Advisory Board, Glaxo-Smith-Kline |
| 2008- | Senior Technical Consultant, ClinicalTrials.gov, National Library of Medicine, Department of Health and Human Services |

Major Administrative Leadership Positions

Local: Mass. General Hospital/Harvard Medical School

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| 1993 | Course Coordinator responsible for development and update of Introduction to Neurobiology and Clinical Neuroscience for PGY-II psychiatric residents, Mass. General Hospital |
| 1994 | Course Coordinator and developer of Basic Science for Psychiatrists seminar for PGY-2 psychiatric residents, Mass. General Hospital |
| 1994- | Course developer, Reading the Psychiatric Literature seminar for PGY-4 psychiatric residents, Mass. General Hospital |
| 1999-2001 | Associate Director for Research and Education, Institute of Cybermedicine, Harvard Consolidated Department of Psychiatry |
| 2004 | Course developer and co-leader, Psychiatric Genetics: Current Findings and Clinical Applications, Continuing Medical Education Course, Mass. General Hospital, Harvard Medical School |
| 2004- 2007 | Advisory Board, Massachusetts General Hospital Psychiatry Academy, Division of Postgraduate Medical Education, Department of Psychiatry, Mass. General Hospital. |
| 2003- | Director, Gerontology Research Unit, Department of Psychiatry, Mass. General Hospital |
| 2006- | Assistant Vice Chair for Research, Department of Psychiatry, Mass. General Hospital |

Local: Other Harvard

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| 1996-2004 | Organizer, Psychiatric Epidemiology and Biostatistics Colloquium, Harvard School of Public Health and Medical School |
| 2005-2006 | Course developer, Freshman seminar 38e, Madness and the Creative Imagination, Faculty of Arts and Sciences, Harvard University |
| 2006- | Director, Psychiatric Epidemiology Concentration, Department of Epidemiology |

Committee Service

Local: Mass. General Hospital/Harvard Medical School

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| 1991-2000 | Member, Statistics and Computer Sciences Consulting Group, Department of Psychiatry, Mass. General Hospital |
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- 1992 Member, Substance Abuse Advanced Basic Science (ABS) Course Planning Committee, Division on Addictions
- 1996-1999 Chair, Subcommittee on Decision Support and Informatics, Research Committee, Consolidated Department of Psychiatry
- 1999- Member, Research Committee, Partners Psychiatry
- 2001- Member, Research Committee, Mass. General Hospital Department of Psychiatry; Research Steering Committee, 2007-
- 2002- Member, Promotions Committee, Mass. General Hospital Department of Psychiatry; Subcommittee on Promotions and Rank Disparities, 2004-2005
- 2003- Member, Subcommittee on the Review of Research Proposals, Executive Committee on Research, Mass. General Hospital
- 2004- Member, Women in Academic Medicine Committee, Mass. General Hospital Department of Psychiatry
- 2009 Member, Workgroup to Develop a Partners Geriatric Psychiatry Fellowship

Local: Harvard School of Public Health

- 1997- Member, Psychiatric Epidemiology Curriculum Committee, Department of Epidemiology; Chair, 2006- .
- 2001- Department of Epidemiology Representative, Interdisciplinary Program in Molecular and Genetic Epidemiology
- 2001-2002 Member, Search Committee for Neuroepidemiology Assistant/Associate Professor, Department of Epidemiology
- 2003-04 Member, Search Committee for Assistant Professor, Department of Society, Human Development, and Health
- 2006 Chair, Search Committee for Neuroepidemiology Assistant Professor, Department of Epidemiology

Local: Research Advisory

- 2002- Member, Advisory Committee, Nurses' Health Study Cognitive Function Cohort, Department of Epidemiology and Channing Laboratory, Brigham and Women's Hospital
- 2003- Member, Executive Committee, Massachusetts Alzheimer's Disease Research Center, Mass. General Hospital Department of Neurology; Steering Committee on Clinical Research, 2006-
- 2007- Chair, Data Safety Monitoring Board, Depression, DNA Damage and Telomeres: A Chronic Stress Model of Accelerated Aging, Department of Psychiatry, Mass. General Hospital

National

- 1994-1998 Consultant, Task Force to Develop a Practice Guideline for Alzheimer's Disease and Other Dementias of Late Life, American Psychiatric Association

1995-1999	Special Advisor and Member, Task Force to Develop a Handbook of Psychiatric Measures and Outcomes, American Psychiatric Association
1998-1999	Member, Task Force on Informed Consent, American Psychiatric Association
2000-2001	Member, Advisory Panel on Exceptional Longevity (APEL), National Institute on Aging
2001-	Member, Advisory Committee, National Cell Repository for Alzheimer's Disease
2001	Member, Advisory Group on Studying Interactions Among Social, Behavior, and Genetic Factors in Health, National Institute of Human Genome Research
2002-2007	Member, Advisory Board, Washington Heights/Inwood Columbia Aging Project, College of Physicians and Surgeons, Columbia University
2003	Member, Genetics of Late Onset Alzheimer's Disease Case Control Advisory Workshop, National Institute on Aging
2004-2007	Member, Task Force to Revise the Practice Guideline for Alzheimer's Disease and Other Dementias of Late Life, American Psychiatric Association
2005-	Member, Advisory Board, National Institute on Aging Genetics of Alzheimer's Disease Data Storage Site (NIAGADS)
2007-	Member, Publications Committee, National Alzheimer's Coordinating Center, National Institute on Aging
2007-2008	Member, Early-Onset Familial Alzheimer's Disease Knowledge Hub, Alzheimer Research Forum
2007-2008	Advisor, Alzheimer's Disease Genetics Consortium Workgroup, National Institute on Aging
2007-	Member, Workgroup on Dementia, DSM-V Task Force, American Psychiatric Association

Professional Societies

1980-1999	Hastings Center for Bioethics
1986-	American Psychiatric Association
1988-2000	American Association for the Advancement of Science
1991-2000	Sigma Xi
1993-	International Genetic Epidemiology Society
1995-2002	American Psychopathological Association
1995-	American Society of Human Genetics
2008-	International Society to Advance Alzheimer Research and Treatment

Grant Review Activities

1999	Member, Expert Review Panel, Extramural Research Program, Pediatric Epidemiology Section, National Institute of Child Health and Development
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1999	Site visitor, Special Emphasis Panel, National Institute of Neurologic Disorders and Stroke
2000-	Reviewer, Initial Review Board, Medical and Scientific Advisory Council, National Alzheimer's Association
2001	Site visitor, Special Emphasis Panel, National Institute on Aging
2002, 2008	Chair, Technical Evaluation Group, Human Genetics Resource Center: DNA and Cell Line Repository, National Institute of Neurologic Disorders and Stroke
2003	Member, Special Emphasis Panel, Collaborative Genetic Studies, National Institute of Mental Health
2003-2005	Chair, Special Review Group, Research on Research Integrity, National Institute on Neurological Disorders and Stroke
2004	Ad hoc member, Initial Review Group, National Human Genome Research Institute
2005, 2008	Ad hoc member, Initial Review Group, Genetics of Human Disease
2006	Ad hoc member, Initial Review Group, NIA Neuroscience
2006	Member, Special Emphasis Panel, National Institute on Aging
2007	Ad hoc member, Initial Review Group, National Institute on Aging
2008	Member, Beeson Award Review Panel, National Institute on Aging
2009	Member, NIH Challenge Grant Stage 1 Expert Panel, Genetics
2009	Member, Alzheimer's Disease Research Center Program review panel, National Institute on Aging

Editorial Activities

Ad hoc reviewer

1993-	<i>American Journal of Medical Genetics (Neuropsychiatric Genetics)</i>
1993-	<i>Journal of Geriatric Psychiatry and Neurology</i>
1993-	<i>Archives of General Psychiatry</i>
1994-	<i>Harvard Review of Psychiatry</i>
1995-	<i>American Journal of Psychiatry</i>
1999-	<i>New England Journal of Medicine</i>
1999-	<i>American Journal of Human Genetics</i>
2000-	<i>Archives of Neurology</i>
2001	<i>Culture, Medicine, and Society</i>
2001-	<i>Neurology</i>
2002	<i>American Journal of Medical Genetics</i>
2002	<i>Alzheimer's Diseases and Related Disorders</i>
2004	<i>Proceedings of the National Academy of Sciences</i>
2005	<i>Journal of Geriatric Psychiatry and Neurology</i>
2007-	<i>FASEB Journal</i>
2008	<i>Aging and Mental Health</i>

Other Editorial Roles

2004-	Member, Editorial Board, <i>Experimental Gerontology</i>
2007-09	Member, Editorial board and Triage Editor, <i>American Journal of Geriatric Psychiatry</i>

Honors and Prizes

1977	Phi Beta Kappa
1981-1982	Mellon Fellowship, National Academy of Sciences
1984	Lee B. Macht Prize in Psychiatry
2007	Alzforum Community Award, Alzheimer Research Forum
2008	Memory Ride Award, Investigator Initiated Grant Program, Alzheimer's Association

Report of Funded and Unfunded Projects**Past Funding**

1993-1998	Principal Investigator, K21 MH001118 (Total Direct Costs: \$427,740), Defining Caseness in Psychiatric Genetics
1998-2003	Co-Investigator, U01 MH51066, Molecular Genetic Studies of Alzheimer's Disease
1998-2002	Co-Investigator, Genetics Core, P01 AG04953, Age-Related Changes of Cognition in Health and Disease
1999-2004	Project Co-Principal Investigator, Project 4 (Genetic Analysis of Alzheimer's Disease) and Co-Investigator, Clinical Core, P50 AG05134, Massachusetts Alzheimer's Disease Research Center.
1999-2003	PI of subcontract, R01 MH059532 (Total Direct Costs: \$51,108), Family Based Tests of Association for Complex Diseases
1999-2004	Co-Principal Investigator, R01 MH60009, Search for Novel Alzheimer's Disease Genes
1999-2002	Principal Investigator, R01 HG001831 (Total Direct Costs \$693,157), Genetic Knowledge and Attitudes in Alzheimer's Disease
2001	Co-Principal Investigator, Special Supplement to P50 AG05134, Consortium on Alzheimer's Genetics
2002-2004	Principal Investigator of Multi-Site Grant, Fidelity Foundation (Total Direct Costs [Mass. General Hospital site only]: \$79,836). Clinical Follow-up of the NIMH Alzheimer's Genetic Sample
2002-2005	Co-Principal Investigator, Administrative Supplement to P50 AG05134, Collection of Multiplex Alzheimer's Disease Families
2003-2007	Principal Investigator, P01AG004953 (Total Direct Costs: \$6,239,611), Age Related Changes of Cognition in Health and Disease
2004-2005	Principal Investigator, Administrative Supplement to P50 AG05134 (Total Direct Costs: \$25,000), Follow-up of the NIMH Genetics Initiative Sample
2004-2009	Co-Principal Investigator, Genetics Subcore, and Co-Investigator, Clinical Core, P50 AG05134, Massachusetts Alzheimer's Disease Research Center

- 2004-2005 Co-Investigator, Fidelity Foundation, Cognitive Assessment of Nurses Health Study Massachusetts Residents
- 2005-2008 Co-Investigator, R01 AG023667, Search for Novel Early-Onset Alzheimer's Genes
- 2007-2008 Co-Principal Investigator, Director's Supplement to P50 AG05134, Analytic Strategies for the NACC Database

Current Funding

- 2003-2010 Principal Investigator Mass. General Hospital Subcontract from Columbia University, R01 AG007370 (MGH Total Direct Costs: \$636,185) Predictors of Severity in Alzheimer's Disease. *This project aims to examine the predictors of rate of decline in patients with Alzheimer's disease and other dementias by measuring variables such as extrapyramidal signs and psychiatric symptoms and to relate the clinical presentation to findings on post-mortem brain tissue of such patients.*
- 2003-2012 Co-Principal Investigator, R37 MH60009, Identification and Characterization of Novel AD Genes. *This project is focused on linkage disequilibrium mapping of novel Alzheimer's disease genes and subsequent analysis.*
- 2005-2009 Principal Investigator, Fidelity Foundation (Total Direct Costs: \$197,695), AlzRisk: A Genetic Epidemiology Database. *This project is aimed at constructing a publicly available database that summarizes the available cohort studies of risk and protective factors for Alzheimer's disease, and provides meta-analyses where feasible.*
- 2006-2009 Principal Investigator, Cure Alzheimer's Foundation (Total Direct Costs: \$100,000), Genetics and Molecular Imaging in Prodromal Alzheimer's Disease. *This project aims to obtain in vivo amyloid imaging across the broad spectrum of preclinical AD in subjects from the MGH Memory and Aging Study sample, and to undertake genetic analysis of this sample.*
- 2007-2009 Principal Investigator, Alzheimer's Association Investigator-Initiated Research Grant (Total Direct Costs: \$216,266), Cross Sectional and Longitudinal Analysis of AD Quantitative Phenotypes. *This study uses longitudinal multi-dimensional cognitive testing data from a longstanding cohort study to identify genes influencing cognitive decline and Alzheimer's disease.*
- 2007-2012 Co-Investigator. R01 AG029411, Medial Temporal Lobe Subregions in Aging, MCI, and AD: Structural and Functional MRI. *The goal of this study is to use new high-resolution structural and functional MRI methods to investigate detailed aspects of temporal subregions in aging, Mild Cognitive Impairment, and Alzheimer's disease.*
- 2008-2012 Principal Investigator, R01 NS062028 (Two site R01, Total Direct Costs for MGH site: \$1,498,947). Small vessel disease and beta-amyloid deposition in mildly impaired cognition. *The goal of this project is to determine whether MRI and PET markers of cerebral small vessel disease and beta-amyloid deposition are predictors of cognitive decline in persons with mildly impaired cognition.*
- 2009-2014 Co-PI, Clinical Core and Genetics Program, P50 AG005134. Alzheimer's Disease Research Center. *The Clinical Core follows a longitudinal cohort that includes a spectrum of impairment from normal aging to dementia. The genetics program aims to facilitate genetic research within the Center, including the collection of families, measurement of APOE, and search for novel Alzheimer genes.*

- 2009-2014 Principal Investigator of Mass. General Hospital Subcontract from University of Pennsylvania, and Co-Principal Investigator of Family Samples Group, U01 AG032984 (MGH Total Direct Costs: \$69,766), Alzheimer's Disease Genetics Consortium. *The goal of this project is to identify susceptibility genes for late-onset Alzheimer's Disease using a wide variety of samples and approaches.*
- 2009-2013 Co-Principal Investigator for Harvard School of Public Health Training Grant, T32MH017119, Training Program in Psychiatric Genetics and Translational Research. *The goal of this program is to train students and post-doctoral fellows in Epidemiology and Biostatistics in key elements in quantitative methods for genetic and translational research on mental disorders.*

Report of Local Teaching and Training

Teaching of Students in Courses: Harvard Medical School

- 1988-1995 Human Nervous System and Behavior, New Pathway course for HMS-2: 1988-1989, Tutor (10 weeks/year, 8 students); 1990-1995, Substitute tutor; 1992, Guest examiner
- 1990 Neurobiology 209, Neurobiology of Disease, Harvard Graduate Program in Neuroscience: Guest lecturer on the phenomenology and genetics of bipolar affective disorder
- 2006-2008 Genetics 228, Genetics in Medicine – From Bench to Bedside, Harvard Graduate Program in Neuroscience: Guest lecturer on Genetic findings in Alzheimer's disease

Teaching of Students in Courses: Harvard School of Public Health

- 1992-2005 Epidemiology 217, Epidemiology of Major Psychiatric Illness: Guest lecturer on Alzheimer's disease
- 1993, 1998 Biostatistics 269, Statistical Methods in Psychiatry: Guest lecturer on linkage analysis, genetic association analysis
- 1994-1996 Epidemiology 219, Assessment Concepts and Methods in Psychiatric Epidemiology: 1994-1996, Co-instructor and lecturer on reliability, validity, and psychiatric nosology; 1997- , Instructor (7-8 sessions, 10-15 students/year)
- 1997-2004 Epidemiology 244, Genetic Epidemiology of Major Psychiatric Disorders: Guest lecturer on Alzheimer's disease and on bipolar disorder
- 2000- Epidemiology 284, Epidemiology of Neurologic Diseases: Guest lecturer on the genetics of Alzheimer's disease
- 2002-2006 Health Policy and Management 292, Research Ethics: Guest lecturer on issues in genetic studies and in patients with compromised decision-making
- 2003 Epidemiology 208, Introduction to Clinical Epidemiology: Guest project reviewer
- 2003-2007 Epidemiology 201, Introduction to Epidemiology: 2003, Guest lecturer, Genetics of Alzheimer's disease; 2004, Instructor, Genetic/Molecular Epidemiology Module; 2005-2007, Course co-instructor
- 2006- Interdepartmental 521, Developmental Epidemiology of Adult Psychiatric Disorders: Guest lecturer on Alzheimer's disease

Teaching of Students in Courses, Harvard College

- 1984 Sociology 145, Medicine and Society: Senior Teaching Fellow
- 2001 Mind, Brain, Behavior Junior Symposium: Workgroup Leader, Psychiatry in the Genomic Era
- 2005, 2006 Freshman Seminar 38e, Madness and the Creative Imagination, Literary and Biomedical Perspectives: Instructor.

Formal Teaching of Residents, Clinical Fellows, and Research Fellows

- 1990-1993 Introduction to Neurobiology and Clinical Neuroscience, PGY-2 seminar, Mass. General Psychiatry Residency: 1990-1993, Lecturer on psychiatric genetics and linkage analysis (4 lectures); 1993, Course coordinator (16 sessions)
- 1993 Neurobiology of Disease, Beth Israel Hospital Psychiatric Residency: Guest lecturer on methods in genetic epidemiology
- 1994-1996 Basic Science for Psychiatrists, PGY-2 seminar, Mass. General Psychiatry Residency: 1994-1996, Lecturer on statistics, epidemiology, and genetics (4 lectures); 1994, Course coordinator (17 sessions)
- 1994- Reading the Psychiatric Literature Seminar, PGY-4, Mass. General Psychiatry Residency: 1994, Co-leader; 1995- , Leader (3-4 sessions/year)
- 1994 Biological Mechanisms Seminar, PGY-3, Longwood Area Combined Psychiatric Residency: Guest lecturer on psychiatric nosology
- 1997 Neurology of Behavior, Beth Israel Hospital post-graduate course: Lecturer on epidemiological factors in aging and dementia
- 1997 Seminar Series in Biopsychiatry and Psychopharmacology, Mass. General-McLean Psychiatry Residency: Lecturer on genetics and biology of bipolar disorder
- 1997 Clinical Genetics Fellowship Seminar Series: Lecturer on genetics of psychiatric disorders
- 1998 Didactic Seminar Series, Department of Medicine Residency, Clinical Research Track: Lecturer on genetic methods
- 2000-2001 Biomedical Seminar Series, PGY-2, Mass. General-McLean Psychiatry Residency: Lecturer on genetics of bipolar disorder
- 2001- Geropsychiatry Seminar Series, PGY-3, Mass. General-McLean Psychiatry Residency: Lecturer on epidemiology and genetics of dementia
- 2004- Geriatric Psychopharmacology Lecture Series, PGY-3: Lecturer on genetics of Alzheimer's disease
- 2004 Harvard Combined Child Psychiatry Residency: Lecturer on methods in psychiatric genetics
- 2007 Translational Genetics Seminar Series, PGY-2, Mass. General-McLean Psychiatry Residency: Lecturer on genetics of Alzheimer's disease

Clinical Supervisory and Training Responsibilities

1988-1990 Supervision of psychiatric residents, Mass. General Acute Psychiatry Service (2 hours/week)

Laboratory and Other Research Supervisory and Training Responsibilities

1991- Research mentorship, supervision, and advice regarding clinical research training for psychiatry and neurology residents and fellows, Mass. General Hospital (0-5 hours/month)

Formally Supervised Trainees**Advising Responsibilities, Mass. General Hospital**

- 1999-2004 Naomi Simon, MD, MS, Advisor for K23 Award. Advised on program of study in Epidemiology, and worked on clinical epidemiology paper. Current position, Associate Professor of Psychiatry, Harvard Medical School; Psychiatrist, Mass. General Hospital
- 1999-2004 Lars Bertram, MD, Research Supervisor for quantitative methods, leading to multiple papers including one in *Science* and one in the *New England Journal of Medicine*, and a successful R01 application. Current position, Assistant Professor of Neurology, Harvard Medical School and Head, Neuropsychiatric Genetics Group, Max-Planck Institute for Molecular Genetics, Berlin, Germany
- 1999-2002 Aleister Saunders, PhD, Research Supervisor for genetic analysis, leading to multiple papers. Current position, Associate Professor of Biochemistry, Drexel University
- 2001-2005 Pamela Sklar, MD, PhD, Partners Psychiatry Junior Faculty Mentor, in departmental program designed to provide support and guidance from investigators outside the mentee's own research unit. Current position, Associate Professor of Psychiatry, Harvard Medical School and Broad Institute
- 2002-2007 Anne Becker, MD, PhD, Mentor on K Award, provided advice on program of study in Epidemiology, and on study design and assessment methods for research project. Current position, Associate Professor of Psychiatry and of Social Medicine, Harvard Medical School. Director, Adult Eating Disorders Unit, Mass. General Hospital
- 2003-2004 Bradford Dickerson, MD, Research Supervisor, provided mentorship and advice regarding research methods, resulting in numerous papers and grant awards. Current position, Associate Professor of Neurology, Harvard Medical School.
- 2007-2008 Olivia Okereke, MD, MS, Mentor for Harvard Center for Neurodegeneration and Repair Pilot Award, resulting in poster presentation, with manuscript in process, as well as successful K award application. Current position: Assistant Professor of Psychiatry and Medicine, Harvard Medical School, Co-Investigator, Nurse's Health Study, Brigham and Women's Hospital

Advising Responsibilities, Harvard School of Public Health

- 1996-1999 Eileen Ming, ScD, Doctoral Advisor in Epidemiology. Current position: Manager, Outcomes Research Management Department, Merck Pharmaceuticals
- 1997-1999 S. Bryn Austin, ScD, Member of Thesis Committee and Research Advisor in Health and Social Behavior. Current position: Director of Fellowship Research Training, Division of

- Adolescent and Young Adult Medicine, Children's Hospital; Assistant Professor of Pediatrics, Harvard Medical School
- 1998-2003 I-Chao Liu, MD, ScD, Doctoral Advisor in Epidemiology and co-author on three papers. Current Position: Assistant Professor of Psychiatry, Taiwan University Medical School
- 1999-2004 Joshua Breslau, PhD, ScD, Doctoral Advisor in Epidemiology and co-author on one paper. Current position: Assistant Professor, Department of Internal Medicine, Center for Reducing Health Disparities, University of California at Davis
- 2001-2003 Michael Monuteaux, ScD, Member of Thesis Committee in Epidemiology and co-author on three papers. Current position: Instructor in Psychiatry, Mass. General Hospital
- 2001-2006 Matthew McQueen, MS, ScD. Doctoral in Epidemiology and Post-doctoral Advisor in Biostatistics, and co-author on multiple papers. Current position: Assistant Professor of Psychology and Director, Genetic Epidemiology Laboratory, Institute for Behavioral Genetics, University of Colorado at Boulder
- 2002-2004 Olivia Okereke, MD, MS, Masters Advisor in Epidemiology. Current position: Assistant Professor of Psychiatry and Medicine, Harvard Medical School, Co-Investigator, Nurse's Health Study, Brigham and Women's Hospital
- 2003-2004 Claire Simon, MS, Masters Thesis Supervisor in Epidemiology. Current position, Doctoral Candidate in Epidemiology, Harvard School of Public Health
- 2004-2005 Emily Martin, PhD, Research Advisor for Post-Doctoral Fellowship in Biostatistics and co-author on one paper. Current Position: Statistician, Wyeth Pharmaceuticals
- 2006-2008 Federico Soldani, MD, Doctoral Advisor in Epidemiology. Current Position, practicing psychiatrist, Pisa, Italy
- 2007- Alan Fung, MD, MS, Doctoral Advisor in Epidemiology. Current Position, Doctoral Candidate in Epidemiology, Harvard School of Public Health, and Psychiatrist, University of Toronto
- 2009- Melissa Naylor, PhD, Post-doctoral Research Supervisor. Current Position, Post-doctoral Fellow, Department of Biostatistics, Harvard School of Public Health
- 2009- Alain Koyama, Masters Advisor in Epidemiology. Current Position, Masters Student, Harvard School of Public Health
- 2009- Zhou Zhou, Masters Advisor in Epidemiology. Current Position, Masters Student, Harvard School of Public Health.

Formal Teaching of Peers

- 1992- Continuing Medical Education courses, Mass. General Hospital and Psychiatry and McLean Hospital: Lecturer on epidemiology, genetics, mood disorders, dementia, and geriatric psychiatry, 1-4 lectures/year
- 2003 Web-based Continuing Medical Education course: Blacker D, Stoler JM, Casebeer L, Go RCP. Alzheimer's Disease Genetics and Genetic Testing for Primary Care Physicians, CME OnLine, developed with the University of Alabama at Birmingham School of Medicine Department of Continuing Medical Education

Local Invited Presentations

Grand Rounds and Other Invited Presentations, Harvard Institutions

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| 1990 | Invited Speaker, Quantitative Genetics Seminar, Harvard Museum of Comparative Zoology: "A Review of Genetic Data on Bipolar Illness" |
| 1990 | Invited Speaker, Advances in Psychopharmacology and Behavioral Neurobiology Seminar Series, Mass. General Hospital: "Reliability, Validity, and the Effects of Misclassification in Psychiatric Research" |
| 1990 | Invited Speaker, Psychiatric Epidemiology Colloquium, Harvard School of Public Health: "On the Boundaries of Bipolar Disorder: Implications for Research and Clinical Practice" |
| 1993 | Invited Speaker, Psychopharmacology Conference, McLean Hospital: "Unipolar Relatives in Bipolar Pedigrees: Are They Bipolar?" |
| 1996 | Invited Speaker, Department of Epidemiology Seminar Series, Harvard School of Public Health "APOE, Sex, and Onset of Alzheimer's Disease: The NIMH Genetics Initiative" |
| 1997 | Invited Speaker, Psychiatric Epidemiology and Biostatistics Colloquium, Harvard School of Public Health: "Longevity, Cognitive Decline, and the Risk of Alzheimer's Disease" |
| 1998 | Invited Speaker, Psychopharmacology Grand Rounds, McLean Hospital: "Update on the Genetics of Alzheimer's Disease, with Implications for Genetic Testing" |
| 1999 | Invited Speaker, Partners Symposium on Complex Diseases: "Recent Developments in Alzheimer's Disease: Lessons from and for Other Complex Diseases" |
| 2000 | Invited Speaker, Psychiatric Statistics Seminar, Harvard School of Public Health: "Estimating Genetic Risk in Family Samples: Application to Alzheimer's Disease" |
| 2000 | Invited Speaker, Harvard Longwood Psychiatry Grand Rounds: "Genetics of Alzheimer's Disease" |
| 2000 | Invited Speaker, Partners Neurodegenerative Disorders Symposium: "Alpha-2-Macroglobulin as a Genetic Risk Factor for Alzheimer's Disease" |
| 2001 | Respondent, Psychiatry Grand Rounds, Mass. General Hospital: "Genetic Counseling in Psychiatry" |
| 2001 | Invited Speaker, Psychopharmacology Seminar, Mass. General Hospital: "Genetics of Alzheimer's Disease: Current Findings and Clinical Implications" |
| 2002 | Invited Speaker, Neurostatistics Working Group, Department of Biostatistics, Harvard School of Public Health: "Analytic Issues in the Study of Neurodegenerative Disorders" |
| 2004 | Panel Member, Grant Writing Workshop, Subcommittee for the Review of Research Proposals, Mass. General Hospital |
| 2004 | Alzheimer's Disease Association-Mass Medical Society Sponsored Alzheimer's Disease Collaborative Project Speaker's Panel, Grand Rounds, Cambridge Hospital: "Advances in Alzheimer's Disease: Research, Recognition and Risk Management" |

- 2006 Invited Speaker, Psychiatric Statistics Seminar, Department of Biostatistics, Harvard School of Public Health: "Cross Sectional and Longitudinal Analysis of Alzheimer's Disease Quantitative Phenotypes"
- 2006 Invited Speaker, Seventh Annual Research Conference, Healthy Aging: Current Research Affecting Women, Center of Excellence in Women's Health, Harvard Medical School: "Women and Dementia,"
- 2009 Invited Speaker, Psychiatric Epidemiology and Biostatistics Colloquium, Harvard School of Public Health: "Developments in Psychiatric Nosology: Lessons from DSM-V in Progress: Neurocognitive Disorders"
- 2009 Invited Speaker, Grand Rounds, Mass. General Hospital, "DSM-V in Process: Lessons from the Neurocognitive Disorder Workgroup"

Report of Regional, National, and International Invited Teaching and Presentations

Regional

- 1992 Invited Speaker, Grand Rounds, Dartmouth Medical School Department of Psychiatry: "Contested Boundaries of Bipolar Disorder and the Limits of Categorical Diagnosis in Psychiatry"
- 1994 Invited Speaker, Grand Rounds, Norwood Hospital Psychiatry Department: "The Genetics of Mood and Anxiety Disorders"
- 1994 Invited Speaker, Guest Lecture Series, Tufts University Medical School Department of Psychiatry: "Defining Caseness for Psychiatric Linkage Studies"
- 1996 Invited Speaker, Scientific Lecture Series, Tufts University Medical School: "APOE and Age-at-Onset of Alzheimer's Disease: Implications for Clinical Practice"
- 1998 Invited Speaker, Guest Lecture Series, Tufts University Medical School Department of Psychiatry: "An Update on the Genetics of Alzheimer's Disease"
- 2000 Invited Speaker, Massachusetts Veterans Epidemiology Research and Information Center (MAVERIC) Seminar Series: "Genetics of Alzheimer's Disease"
- 2000 Invited Speaker and Guest Adviser, Risk Evaluation and Education for Alzheimer's Disease (REVEAL) Study Retreat and External Advisory Board Meeting, Boston University School of Medicine: "Disseminating Risk Information in Clinical Practice: 'Getting Ready for The Tidal Wave'"
- 2001 Invited Speaker, Boston University Alzheimer's Disease Research Center: "Genetic Knowledge and Attitudes in Alzheimer's Disease"
- 2001, 2003 Invited Speaker, Panel Presentation on Research and Treatment, Boston Alzheimer's Symposium
- 2003 Invited Speaker, Noon Geriatrics Conference, Hebrew Rehabilitation Center for the Aged: "Update on Alzheimer's Disease Genetics and Genetic Testing"

2003 Invited Speaker, Molecular & Quantitative Genetics Seminar Series, Boston University School of Medicine: "Recent Progress in Alzheimer's Disease Genetics and Future Prospects for Continued Progress"

2004 Invited Speaker, Older Adult Health: Preparing for the Next Quarter Century, Agelab, Massachusetts Institute of Technology: "Trends in Cognition and Aging"

National

1990 Guest Presenter, Meeting of Psychiatric Epidemiology Training Programs, American Public Health Association: "Unipolar Relatives in Bipolar Pedigrees: A Conceptual Model and Research Strategy," New York, New York

1991 Invited Speaker, Association for Clinical Psychosocial Research, Symposium on Psychosocial Input in the NIMH Gene Bank Collaborative Study: "Alzheimer's Disease," New Orleans, Louisiana

1991 Co-chair and Presenter, American Psychiatric Association Annual Meeting, Panel on Defining the Phenotype of Bipolar Disorder: "Uncharted Boundaries of Bipolar Disorder," New Orleans, Louisiana

1993 Invited Speaker, National Institute of Mental Health Workshop on Bipolar Disorder, Substance Abuse, and Adult Attention Deficit Disorders: Equivalent or Comorbid Diagnoses: "Perspectives in Differential Diagnosis," Bethesda, Maryland

1995 Presenter, Institute on Psychiatric Services, American Psychiatric Association, Review Panel on APA Practice Guidelines: "Practice Guideline for Alzheimer's Disease," New York, New York

1996 Presenter, Component Workshop on Alzheimer's Disease and Related Dementias, American Psychiatric Association: "Practice Guideline for Alzheimer's Disease," Washington, D.C.

1997 Lecturer, Annual Meeting, American Psychiatric Association, Panel on Assessment in Clinical Practice: The Handbook of Psychiatric Measures: "Measurement Methods: Properties, Parameters, Priorities"

1997 Lecturer, Annual Meeting, American Psychiatric Association, Panel on Advances in Geriatric Psychiatry: "Alzheimer's Guidelines"

1999 Invited Speaker and Member, National Institute on Aging and Alzheimer's Association Workshop on the Genetics of Alzheimer's Disease: "Estimation of Effect Sizes in Case-Control and Family-Based Association Studies," Bethesda, Maryland

2000 Invited Speaker and Visiting Professor, Department of Mental Hygiene, Johns Hopkins University School of Public Health: "Strategies for Identifying and Characterizing Genetic Risk Factors for Alzheimer's Disease," Baltimore, Maryland

2001 Invited Speaker, Banbury Center Lecture Series in Science for Federal Court Judges: "Developments in Alzheimer's Disease Genetics," Cold Spring Harbor, New York

2001 Invited Speaker, Seventh Annual Graylyn Conference on Women's Cognitive Health: "Genetics and Cognitive Decline in Women," Winston-Salem, North Carolina

- 2004 Invited Speaker, Grand Rounds, Department of Psychiatry, State University of New York, at Buffalo: "Genetics of Alzheimer's Disease: Established Findings, Current and Future Directions," Buffalo, New York
- 2004 Invited speaker, National Institute on Aging Late-Onset AD Genetics Initiative investigator meeting: "Phenotype Definition and Analytic Strategies for Late-Onset Alzheimer's Disease," Toronto, Canada
- 2005 Invited speaker, Workshop on Children of Alzheimer Parents: What are the Risks? American Association of Geriatric Psychiatry: "Alzheimer's Genetic Education: A Pilot Study," San Diego, California
- 2005 Invited speaker, American Psychiatric Association Workshop: The Future of Psychiatric Diagnosis: Refining the Research Agenda, Diagnostic Issues in Dementia: "Genetics and Dementia Nosology," Geneva, Switzerland
- 2009 Invited speaker, Seventh Annual Mount Sinai Medical Center Mild Cognitive Impairment Symposium: "Disclosure of Genetic Risk: Lessons for Early Recognition," Miami, Florida

International

- 2000 Invited Speaker, World Alzheimer Congress 2000: "Association Strategies in Alzheimer's Disease: Findings from the NIMH Genetics Initiative," Washington, DC
- 2000 Session Co-Chair, Epidemiology of Alzheimer's Disease and Genetics I sessions, World Alzheimer Congress 2000
- 2002 Invited Speaker, Eighth International Conference on Alzheimer's Disease and Related Disorders: "Ethical Issues in Alzheimer's Disease Research," Stockholm, Sweden
- 2004 Invited Speaker, Ninth International Conference on Alzheimer's Disease and Related Disorders: "Genetics of Alzheimer's Disease: Where Are We Now and Where Are We Going?" Philadelphia, Pennsylvania
- 2004 Invited Speaker, Fifth KITASATO University-Harvard School of Public Health Symposium on Advanced and Global Drug Development Techniques: Achievements and Future Directions: "Challenges in Alzheimer's Disease Research," Tokyo, Japan
- 2008 Invited speaker, Alzheimer Research Forum Reception, International Conference on Alzheimer's Disease: "The AlzRisk Database," Chicago, Illinois.

Report of Clinical Activities and Innovations

Current Licensure and Certification

- 1986 Massachusetts Medical License Registration
- 1989 American Board of Psychiatry and Neurology Certification (Lifetime)
- 1996-2012 American Board of Psychiatry and Neurology, Added Qualifications in Geriatric Psychiatry

Practice Activities

- 1988-1998 Outpatient psychopharmacology practice, 5-10 hours/week

1998 Psychiatrist for the Memory Disorders Unit, Department of Neurology, 1-10 consultations/month

Clinical Innovations

1993-1995 Coordinator, Harvard collaboration with Medical Intelligence, Inc. to design a treatment algorithm for Major Depression

1998 Founding member of the Alzheimer's Disease Genetic Counseling Unit at Mass General Hospital under the auspices of the Alzheimer's Disease Research Center. Contacted other centers, developed counseling protocol, and worked with neurologists and genetic counselors with participating families.

Report of Technological and Other Scientific Innovations

Family Based Association Tests (FBAT). *FBAT is a widely used package of family based association tests used to analyze candidate genes and genome-wide association data across a wide range of family structures. It is available at <http://www.biostat.harvard.edu/~fbat/fbat.htm/>. I worked closely with the original development team in the Department of Biostatistics at the Harvard School of Public Health to provide motivation, sample data, and initial testing of the software, as well as contributing to the user's manual.*

AlzGene. Bertram L, McQueen MB, Mullin K, **Blackler** D, Tanzi RE. Systematic meta-analyses of Alzheimer disease genetic association studies: the AlzGene database. *Nat Genet* 2007; 39:17-23 *The AlzGene website (www.alzgene.org) is a widely cited compendium of Alzheimer's disease genetic association findings that was developed by our Mass. General Hospital Alzheimer's genetics group. I served as a member of the development team, focused on design and meta-analytic methods.*

AlzRisk. Weuve J, McQueen MB, **Blackler** D. The AlzRisk Database. *Alzheimer Research Forum*. Available at: <http://www.alzrisk.org>. *AlzRisk is a recently launched website that will serve as a compendium of environmental risk factor findings in Alzheimer's disease. I lead the development team, which spans the Harvard School of Public Health and Mass. General Hospital.*

Report of Education of Patients and Service to the Community

Activities

1999- Member, Medical and Scientific Advisory Board, Massachusetts Alzheimer's Association

1999-2001 Workshop Leader, Alzheimer's Association Caregivers Conference

2000-2002 Medical Chair, Memory Walk, Massachusetts Alzheimer's Association

2004 Presenter, "Taking Care of the Patient with Alzheimer's Disease," Caregiver conference, Chinese Golden Age Center, Boston

2006 Moderator, Harvard Medical School Public Affairs Panel, "Maintaining Mental Agility"

2006- Member, Board of Directors, Alzheimer's Disease Association of Eastern Massachusetts and New Hampshire

2006- Editorial Board, *Mind, Mood, Memory* newsletter

Educational Material for Patients and the Lay Community

Books, Monographs, Articles, and Presentations in Other Media

Blacker D, ApoE and the risk of Alzheimer's disease. *On the Brain* 1997;6:1-3

Patient Educational Material

Blacker D, Moscarillo T, Stoler JM. Alzheimer's Disease Genetics: Information For You and Your Family: An educational video produced at Massachusetts General Hospital in cooperation with the University of Alabama at Birmingham and Partners Video and Multimedia, 2001

Blacker D, Moscarillo T, Goldberg S, Albert MS. Alzheimer's Disease: Information For Patients and Families: An educational pamphlet from Massachusetts General Hospital and the University of Alabama at Birmingham, 2002

Blacker D, Moscarillo T, Goldberg S, Stoler JM. Alzheimer's Disease Genetics: Information For You and Your Family: An educational pamphlet from Massachusetts General Hospital and the University of Alabama at Birmingham, 2002

Recognition

2008, Named to America's Top Doctors, Castle Connolly Ltd.

Report of Scholarship

Peer Reviewed Publications in Print or Other Media: Research Investigations

1. Sullivan S, Akil H, **Blacker D**, Barchas JD. Enkephalinase: selective inhibitors and partial characterization. *Peptides* 1980; 1:31-35.
2. **Blacker D**, Tsuang MT. Unipolar relatives in bipolar pedigrees: are they bipolar? *Psychiatr Genet* 1993; 3:5-16.
3. **Blacker D**, Lavori PW, Faraone SV, Tsuang MT. Unipolar relatives in bipolar pedigrees: a search for indicators of underlying bipolarity. *Am J Med Genet (Neuropsychiatr Genet)* 1993; 48:192-199
4. **Blacker D**, Albert MS, Bassett SB, Go RCP, Harrell LH, Folstein MF. Reliability and validity of NINCDS/ADRDA criteria for Alzheimer's disease: The NIMH Genetics Initiative. *Arch Neurol* 1994; 51:1198-1204.
5. **Blacker D**, Faraone SV, Rosen AE, Guroff JJ, Adams P, Weissman MM, Gershon ES. Unipolar relatives in bipolar pedigrees: a search for elusive indicators of underlying bipolarity. *Am J Med Genet (Neuropsychiatr Genet)* 1996; 67:445-454.
6. **Blacker D***, Haines* JL, Rodes L, Terwedow H, Go RCP, Harrell LE, Perry RT, Bassett SS, Chase G, Meyers D, Albert MS, Tanzi RE. APOE-4 and age-at-onset of Alzheimer's disease: the NIMH Genetics Initiative. *Neurology* 1997; 48:139-147 (*co-first authors).
7. Van Eerdewegh P, Santangelo SL, Lee H, Laird NM, **Blacker D**. Probabilistic diagnosis in linkage analysis of bipolar disorder: putting weights on the fringe, in Goldin LR, Bailey-Wilson JE, Borecki IB, Falk CT, Goldstein AM, Suarez BK, MacCluer JW, editors. *Genetic Analysis Workshop 10: Detection of Genes for Complex Traits. Genetic Epidemiol* 1997; 14:693-698.

8. Go RCP, Duke LW, Harrell LE, Cody H, Bassett SS, Folstein MF, Albert MS, Foster JL, Sharrow NA, **Blacker** D. Development and validation of a Structured Telephone Interview for Dementia Assessment: the NIMH Genetics Initiative. *J Geriatr Psychiatry Neurol* 1997; 10:161-167
9. **Blacker** D, Wilcox MA, Laird NM, Rodes L, Horvath S, Go RCP, Perry R, Bassett SS, McInnis M, Albert MS, Hyman BT, Tanzi RE: Alpha-2 macroglobulin is genetically associated with Alzheimer's disease. *Nature Genet* 1998; 19:357-360
10. Liao A, Nitsch RM, Greenberg SM, Finckh U, **Blacker** D, Albert MS, Rebeck GW, Gomez-Isla T, Clatworthy A, Binetti G, Hock C, Mueller-Thomsen T, Mann U, Zuchowski K, Beisiegel U, Staehelin H, Growdon JH, Tanzi RE, Hyman BT: Genetic association of an alpha-2 macroglobulin (val 1000 ile) polymorphism and Alzheimer's disease. *Hum Molec Genet* 1998; 7:1953-1956.
11. Laird NM, **Blacker** D, Wilcox M: The Sib Transmission/ Disequilibrium Test is a Mantel-Haenszel test. *Am J Hum Genet* 1998; 63:1915 [letter].
12. **Blacker** D, Crystal AS, Wilcox MA, Laird NM, Tanzi RE. [letter] *Nature Genet* 1999; 22:21-22
13. Van Eerdewegh P, Dupuis J, Santangelo SL, Hayward LB, **Blacker** D. The importance of watching our weights: how the choice of weights for non-independent sibpairs can dramatically alter results. *Genetic Analysis Workshop 11*, Goldin LR et al., editors. *Genet Epidemiol* 1999; 17 Suppl 1:S373-S378.
14. Bertram L, **Blacker** D, Mullin K, Keeney D, Jones J, Basu S, Yhu S, McInnis MG, Go RCP, Vekrellis K, Selkoe DJ, Saunders AJ, Tanzi RE. Evidence for genetic linkage of Alzheimer's disease to chromosome 10q. *Science* 2000; 90:2302-3
15. Guenette SY, Bertram L, Crystal A, Bakondi B, Hyman BT, Rebeck GW, Tanzi RE, **Blacker** D Evidence against association of the FE65 gene (APBB1) intron 13 polymorphism in Alzheimer's patients. *Neurosci Lett* 2000; 296:17-20
16. Lake SL, **Blacker** D, Laird N. Family-based tests of association in the presence of linkage. *Am J Hum Genet* 2000; 67:1515-1525.
17. Buxbaum JD, Lilliehook C, Chan JY, Go RC, Bassett SS, Tanzi RE, Wasco W, **Blacker** D. Genomic structure, expression pattern, and chromosomal localization of the human calsenilin gene: no association between an exonic polymorphism and Alzheimer's disease. *Neurosci Lett* 2000; 294:135-8
18. Collins JS, Perry RT, Watson B, Harrell LE, Acton RT, **Blacker** D, Albert MS, Tanzi RE, Bassett SS, McInnis MG, Campbell RD, Go RCP. Association of a haplotype for tumor necrosis factor in siblings with late-onset Alzheimer disease: the NIMH Alzheimer Disease Genetics Initiative. *Am J Med Genet (Neuropsychiatr Genet)* 2000; 96:823-830.
19. Mokliatchouk O, **Blacker** D, Rabinowitz R. Association tests for traits with variable age at onset. *Hum Hered* 2001; 51:46-53.
20. Bertram L, Guenette S, Jones J, Keeney D, Mullin K, Crystal A, Basu S, Yhu S, Deng A, Rebeck GW, Hyman BT, Go R, McInnis M, **Blacker** D, Tanzi R. No evidence for genetic association or linkage of the cathepsin D (CTSD) exon 2 polymorphism and Alzheimer disease. *Ann Neurol* 2001; 49:114-116.
21. Bertram L, Hayward B, Lake S, Falls K, Van Eerdewegh P, **Blacker** D. Family-based tests of association in the presence of known linkage. In: Wijsman EM, Almasy L, Amos CI, Borecki I, Falk CT, King TM, Martinez MM, Meyers D, Neuman R, Olson JM, Rich S, Spence MA, Thomas DC, Vieland VJ, Witte JS, MacCluer JW. Analysis of complex genetic traits: Applications to asthma and simulated data. *Genet Epidemiol* 2001; 21(Suppl 1):S292-S297.

22. Simon N, **Blacker** D, Korbly NB, Sharma SG, Worthington JJ, Otto MW, Pollack MH. Hypothyroidism and hyperthyroidism in anxiety disorders revisited: new data and literature review. *J Affective Disord* 2002; 69:209-217
23. **Blacker** D, Bertram L, Saunders AJ, Moscarillo TJ, Albert MS, Wiener W, Perry RT, Collins JS, Harrell LE, Go RCP, Mahoney A, Beaty T, Fallin MD, Avramopoulos D, Chase GA, Folstein MF, McInnis MG, Bassett SS, Doheny KJ, Pugh EW, Tanzi RE (The NIMH Genetics Initiative Alzheimer's Disease Study Group). Results of a high resolution genome screen of 437 Alzheimer's disease families. *Hum Molec Genet* 2003; 12:23-32 (*an Alzheimer Research Forum Milestone paper*)
24. Bertram L, Saunders AJ, Mullin K, Sampson A, Moscarillo TJ, Bassett SS, Go RC, **Blacker** D, Tanzi RE. No association between marker D10S1423 and Alzheimer's disease. *Mol Psychiatry* 2003; 8:571-573
25. McQueen MB, Bertram L, Rimm EB, **Blacker** D, Santangelo SL: A QTL Genome Scan of the Metabolic Syndrome and its Component Traits, Genetic Analysis Workshop 13, Almasy L et al, editors, *Biomed Central Genetics* 2003, 4(Suppl 1):S96
26. Goldin LR, Camp NJ, Keen KJ, Martin LJ, Moslehi R, Ghosh S, North KE, Wyszynski DF, **Blacker** D. Analyses of metabolic syndrome phenotypes in Framingham Heart Study families from the Genetic Analysis Workshop 13, *Genet Epidemiol* 2003; 25(suppl 1) :S78-S89.
27. Saunders AJ, Bertram L, Mullin K, Sampson AJ, Latifzai K, Basu S, Jones J, Kinney D, MacKenzie-Ingano L, Yu S, Albert MS, Moscarillo TJ, Go RCP, Bassett SS, Daly MJ, Laird NM, Wang G, Velicelebi G, Wagner SL, Becker DK, Tanzi RE, **Blacker** D. Genetic association of Alzheimer's disease with multiple polymorphisms in alpha-2-macroglobulin. *Hum Molec Genet* 2003; 12:23-32
28. Lange C, **Blacker** D, Laird NM. Family-based association tests for survival and times-to-onset analysis, *Statistics in Med* 2004; 23:179-189
29. Dickerson BC, Salat DH, Bates JF, Atiya M, Killiany RJ, Greve DN, Dale AM, Stern CE, **Blacker** D, Albert MS, Sperling RA. Medial temporal lobe function and structure in mild cognitive impairment. *Ann Neurol* 2004; 56:27-35
30. Bertram L, Parkinson M, Mullin K, Menon R, **Blacker** D, Tanzi RE. No association between a previously reported OLR1 3' UTR polymorphism and Alzheimer's disease in a large family sample. *J Med Genet* 2004; 41:286-8.
31. Bertram L, Menon R, Mullin K, Parkinson M, Bradley ML, **Blacker** D, Tanzi RE. PEN2 is not a genetic risk factor for Alzheimer's disease in a large family sample. *Neurology* 2004; 62:304-306.
32. Monuteaux MC, Fitzmaurice G, **Blacker** D, Buka SL, Biederman J. Specificity in the familial aggregation of overt and covert conduct disorder symptoms in a referred ADHD sample. *Psychol Med* 2004; 34:1113-1127
33. Liu I-C, **Blacker** DL, Xu R, Fitzmaurice G, Tsuang MT, Lyons MJ. Genetic and environmental contributions to age of onset of alcohol dependence symptoms in male twins. *Addiction* 2004; 99:1403-9.
34. Liu I-C, **Blacker** DL, Xu R, Fitzmaurice G, Lyons MJ, Tsuang MT. Genetic and environmental contributions to the development of alcohol dependence in male twins. *Arch Gen Psychiatry* 2004; 61:897-903.

35. Bertram L, Hiltunen M, Parkinson M, Ingelsson M, Lange C, Ramasamy K, Mullin K, Menon R, Sampson AJ, Hsiao MY, Elliott KJ, Velicelebi G, Moscarillo T, Hyman BT, Wagner SL, Becker KD, **Blacker** D, Tanzi RE. Family-based association between Alzheimer's disease and variants in UBQLN1. *N Engl J Med* 2005; 352:884-94
36. Bertram L, Hsiao M, Mullin K, Parkinson M, Menon R, Moscarillo T, **Blacker** D, Tanzi RE. ACAT1 is not associated with Alzheimer's disease in two independent family-based samples. *Mol Psychiatry* 2005; 10:522-24
37. Scarmeas N, Albert M, Brandt J, **Blacker** D, Hadjigeorgiou GM, Papadimitriou A, Dubois B, Sarazin M, Wegesin D, Marder K, Bell K, Honig L, Stern Y. Motor signs predict poor outcomes in Alzheimer's disease. *Neurology* 2005; 64:1696-703
38. Scarmeas N, Brandt J, Albert M, Hadjigeorgiou GM, Papadimitriou A, Dubois B, Sarazin M, Devanand D, Honig L, Marder K, Bell K, Wegesin D, **Blacker** D, Stern Y. Hallucinations and delusions are associated with worse outcomes in Alzheimer's disease (AD). *Arch Neurol* 2005; 62:1601-8.
39. Finn CT, Wilcox MA, Korf BR, **Blacker** D, Racette SA, Sklar P, Smoller JW. Psychiatric genetics: a survey of psychiatrists' knowledge, opinions and practice patterns. *J Clin Psychiatry* 2005; 66:821-30.
40. Bertram L, Parkinson M, McQueen MB, Mullin K, Hsiao M, Menon R, Moscarillo TJ, **Blacker** D, Tanzi RE. Further evidence for LBP-1c/CP2/LSF association in Alzheimer's disease families. *J Med Genet* 2005; 42:857-62.
41. Go RCP, Perry RT, Wiener H, Bassett SS, **Blacker** D, Devlin B, Sweet RA. Neuregulin-1 polymorphism in late onset Alzheimer's disease families with psychoses. *Am J Med Genet (Neuropsychiatr Genet)* 2005; 139:28-32.
42. Dickerson BC, Salat DH, Greve DN, Chua EF, Rand-Giovannetti E, Rentz DM, Bertram L, Mullin K, Tanzi RE, **Blacker** D, Albert MS, Sperling RA. Increased hippocampal activation in mild cognitive impairment compared to normal aging and AD. *Neurology* 2005; 65:404-411
43. McQueen MB, Devlin B, Faraone SV, Nimgaonkar VL, Sklar P, Smoller JW, Abou Jamra R, Albus M, Bacanu SA, Baron M, Barrett TB, Berrettini W, **Blacker** D, Byerley W, Cichon S, Coryell W, Craddock N, Daly MJ, Depaulo JR, Edenberg HJ, Foroud T, Gill M, Gilliam TC, Hamshere M, Jones I, Jones L, Joo SH, Kelsoe JR, Lambert D, Lange C, Lerer B, Liu J, Maier W, Mackinnon JD, McInnis MG, McMahon FJ, Murphy DL, Nothen MM, Nurnberger JI, Pato CN, Pato MT, Potash JB, Propping P, Pulver AE, Rice JP, Rietschel M, Scheftner W, Schumacher J, Segurado R, Van Steen K, Xie W, Zandi PP, Laird NM. Combined analysis from eleven linkage studies of bipolar disorder provides strong evidence of susceptibility loci on chromosomes 6q and 8q. *Am J Hum Genet* 2005; 77:582-95
44. Liu IC, Xu R, **Blacker** DL, Fitzmaurice G, Lyons MJ, Tsuang MT. The application of a random effects model to censored twin data. *Behav Genet* 2005; 35:781-9
45. Jiang H, Harrington D, Raby B, Bertram L, **Blacker** D, Weiss ST, Lange C. A family-based association test for time-to-onset data with time-dependent differences between the hazard functions. *Genet Epidemiol* 2006; 30:124-32.
46. McQueen MB, **Blacker** D, Laird NM. Variance calculations for Identity-by-Descent estimation. *Am J Hum Genet* 2006; 78:914-21.
47. Zhu CW, Scarmeas N, Torgan R, Albert MS, Brandt J, **Blacker** D, Sano M, Stern Y. Clinical characteristics associated with disease costs in early AD: baseline data from the Predictors Study. *Arch Neurol* 2006; 66:1021-28.

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49. Bertram L, Hsiao M, Lange C, **Blacker D**, Tanzi RE. SNP rs498055 on chromosome 10q24 is not associated with Alzheimer's disease in two independent family samples. *Am J Hum Genet* 2006; 79:180-3
50. Stavitsky K, Brickman AM, Scarmeas N, Torgan RL, Tang M-X, Albert MS, Brandt J, **Blacker D**, Stern Y. The progression of cognition, psychiatric symptoms, and functional abilities in Dementia with Lewy Bodies and Alzheimer's disease. *Arch Neurol* 2006; 63:1450-6.
51. Zhu CW, Scarmeas N, Torgan R, Albert MS, Brandt J, **Blacker D**, Sano M, Stern Y. Clinical characteristics and longitudinal changes of informal cost in Alzheimer's disease in the community. *J Am Geriatr Soc* 2006; 54:1596-602.
52. Zhu CW, Scarmeas N, Torgan R, Albert MS, Brandt J, **Blacker D**, Sano M, Stern Y. Longitudinal study of effects of patient characteristics on direct costs in Alzheimer disease. *Neurology* 2006; 67:998-1005.
53. Celone KA, Calhoun VD, Dickerson B, Atri A, Chua EF, Miller S, DePeau K, Rentz DM, Selkoe D, **Blacker D**, Albert MS, Sperling RA. Alterations in memory networks in mild cognitive impairment and Alzheimer's disease: An independent component analysis. *J Neurosci* 2006; 26:10222-31.
54. Monuteaux MC, **Blacker D**, Biederman J, Fitzmaurice G, Buka SL. Maternal smoking during pregnancy and offspring overt and covert conduct problems: A longitudinal study. *J Child Psychol Psychiatry* 2006; 47:883-90.
55. Perry RT, Wiener H, Harrell LE, **Blacker D**, Tanzi RE, Bertram L, Bassett SS, Go RC. Follow-up mapping supports the evidence for linkage in the candidate region at 9q22 in the NIMH Alzheimer's disease Genetics Initiative cohort. *Am J Med Genet B Neuropsychiatr Genet* 2006; 63:1450-56
56. Johnson KA, Moran EK, Becker JA, **Blacker D**, Fischman AJ, Albert MS. SPECT perfusion differences in Mild Cognitive Impairment. *J Neurol Neurosurg Psychiatry* 2006; 78:240-47
57. Bertram L, McQueen MB, Mullin K, **Blacker D**, Tanzi RE. Systematic meta-analyses of Alzheimer disease genetic association studies: the AlzGene database. *Nat Genet* 2007; 39:17-23
58. Rakowski C, Xu X, Lazarus R, **Blacker D**, Laird NM. A new multimarker test for family-based association studies. *Genetic Epidemiol* 2007; 31:9-17.
59. Bertram L, Hsiao M, McQueen MB, Parkinson M, Mullin K, **Blacker D**, Tanzi RE. The LDLR locus in Alzheimer's disease: A family-based study and meta-analysis of case-control data. *Neurobiol Aging* 2007; 28:18.e1-4
60. Bertram L, Mullin K, Parkinson M, Hsiao M, Moscarillo TJ, Wagner SL, Becker KD, Velicelebi G, **Blacker D**, Tanzi RE. Is alpha-T catenin (VR22) an Alzheimer's disease risk gene? *J Med Genet* 2007; 44:e63.
61. Albert M, **Blacker D**, Moss MB, Tanzi R, McArdle JJ. Longitudinal change in cognitive performance among individuals with mild cognitive impairment. *Neuropsychology* 2007; 21:158-169.
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76. Breslau J, Javaras K, **Blacker** D, Murphy J, Norman S-L. differential item functioning between ethnic groups in the epidemiological assessment of depression, *J Nerv Ment Dis* 2008; 196:297-306.

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2. American Psychiatric Association Work Group on Alzheimer's Disease and other Dementias: Rabins PV, **Blacker D**, Rovner BW, Rummans T, Schneider LS, Tariot PN, Blass DM. Practice guideline for the treatment of patients with Alzheimer's disease and other dementias. Second edition. *Am J Psychiatry* 2007; 164(12 Suppl):5-56. *I served as a member of the work group, with a primary responsibility for issues related to family history, genetics, and evaluation.*

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5. Okereke O, Wanggaard T, Copeland M, Betensky RA, Pantoja-Galicia N, Hyman BT, Albert MS, **Blacker D**. Reliability and predictive validity of a questionnaire items for development of a brief, structured Clinical Dementia Rating interview. International Conference on Alzheimer's Disease, Chicago, IL, July 2008
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Narrative Report:

Summary: A board-certified geriatric psychiatrist and genetic epidemiologist with a research focus on Alzheimer's disease (AD) and related disorders, I serve as Director of the Gerontology Research Unit and Assistant Vice Chair for Research in the Department of Psychiatry at Mass. General Hospital (MGH). My time commitment is 70% research, 20% administration, and 10% teaching, with minimal clinical activities.

Research Contributions: My research focuses on the clinical and genetic epidemiology of AD, with widespread collaborations locally and around the U.S. I have a particular interest in alternative strategies for defining the disease phenotype, and lead an Alzheimer Association-funded study to use multidimensional neuropsychological test performance to identify AD genes. I serve as co-PI for Family Studies for the recently funded national Alzheimer's Disease Genetics Consortium, and co-PI or co-investigator on multiple other projects in AD genetics. In parallel with these efforts, I collaborate with a Harvard School of Public Health (HSPH) statistical genetics group to help develop and test new methods, including the widely used Family-Based Association Test package. I also serve as Co-Leader of the Clinical Core for the NIA-funded Massachusetts Alzheimer's Disease Research Center (ADRC), for which I helped to establish a longitudinal research cohort of over 700 subjects. Another major focus of my work has been early recognition of AD in anticipation of the development of disease-modifying therapies; I led a Program Project Grant in this area, and recently collaborated on the submission of another for which I will serve as Leader of the Analytic Core and Co-Leader of the Clinical Core. Last, I am a member of the MGH team that developed the online database of Alzheimer's disease genetic association findings known as AlzGene, and now lead a project to develop an analogous database of AD epidemiologic findings known as AlzRisk. In addition to my own research, I serve on multiple advisory boards and study sections for the National Institutes on Aging, Mental Health, Neurological Disorders and Stroke, and the National Human Genome Institute.

Teaching and Education Contributions: My teaching across multiple Harvard Institutions encompasses research methodology and the genetics, epidemiology, and treatment of AD and related disorders. At HSPH, I direct the Psychiatric Epidemiology concentration, co-lead a recently renewed T32 training grant in Psychiatric Genetics and Translational Research, and teach a formal class on assessment methods in psychiatric research. At MGH, I lead a resident course called Reading the Psychiatric Literature, serve as the principal research methods supervisor for the newly integrated Partners Geriatric Psychiatry Fellowship, and mentor residents and junior faculty on clinical research methods and options for methods training. I recently co-edited the second edition of an American Psychiatric Press reference book on assessment methods in psychiatric research, and have authored numerous textbook chapters in this and related areas.

Significant Supporting Activities. In my administrative role at MGH, I oversee research efforts in the neuroimaging, neuroscience, and clinical research groups based in the Charlestown Navy Yard and more broadly. Clinically, I serve as the psychiatric consultant for the Memory Disorders Unit in the MGH Department of Neurology. I maintain a strong interest in evidence-based medicine, helping to develop practice guidelines and other educational materials for physicians, and serving as Senior Methodologic Consultant to the federal clinical trials registry ClinicalTrials.gov. For the American Psychiatric Association, I serve on both the Practice Guideline task force for dementia and the DSM-V Work Group for Neurocognitive Disorders.