

CURRICULUM VITAE (September 2018)

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PROFESSIONAL EXPERIENCE:

2005-present University of Texas Health Science Center at Houston School of
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2001-2005 Baylor College of Medicine, Houston, Texas
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 Department of Experimental Pediatrics/Medical Genetics
 Research Trainee
 genetic epidemiology of breast cancer in the Li-Fraumeni
 familial cancer syndrome
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 Department of Biological Sciences
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 late onset neurodegeneration in the nematode *C. elegans*
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- 1981-1988 Memorial Sloan-Kettering Cancer Center, New York, New York
 Departments of Immunology and Pathology
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 proliferation and differentiation of hematopoietic cells
 Drs. Jen-Wei Chiao and Michael Andreeff

ABSTRACTS:

1. Chiao JW, **Bressler J**, Pinsky C, Hirshaut Y, Oettgen HF, Clarkson B (1982) Induction of differentiation of HL-60 leukemic cells by post-endotoxin serum. Proc Am Assoc Cancer Res. 23:43.
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6. Tsai TF, Jiang YH, **Bressler J**, Beaudet AL (1997) Generation of mouse models for Prader-Willi syndrome by Cre/loxP-mediated chromosomal deletion. *Am J Hum Genet.* 61 Suppl., A322.

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9. **Bressler J**, Tsai TF, Beaudet AL (1999) Analysis of an imprinting control center on mouse chromosome 7 by targeted deletions. *Am J Hum Genet.* 65 Suppl., A51.

PLATFORM PRESENTATION

10. **Bressler J**, Tsai TF, Beaudet AL (2000) Targeted deletions in the mouse to localize *cis* elements controlling imprinting in the Prader-Willi/Angelman syndrome region. *Am J Hum Genet.* 67 Suppl.,18. PLATFORM PRESENTATION

11. Jiang YH, **Bressler J**, Liu Q, Beaudet AL (2002) Tissue-specific DNA methylation correlates with brain-specific imprinting of the Angelman gene, UBE3A. *Am J Hum Genet* 71 Suppl., 168. PLATFORM PRESENTATION

12. Rahbar MH, Loveland KA, Samms-Vaughan M, Boerwinkle E, **Bressler J**, del Junco D, Pearson DA, Assassi P, Pellington S, Grove ML, Bloom K, Beecher C, Brooks K, Ardjomand-Hessabi M (2010) Gene-environment related epidemiological research on autism in Jamaica. International Meeting for Autism Research, Philadelphia, Pennsylvania

13. Rahbar MH, Samms-Vaughan M, Loveland KA, Boerwinkle E, **Bressler J**, Pearson DA, Pellington S, Beecher C, Grove ML, Ardjomand-Hessabi M, Bloom K (2011) Paternal and maternal age are jointly related to autism spectrum disorders in Jamaican children. International Meeting for Autism Research, San Diego, CA

14. Ibrahim-Verbaas C, Debette S, **Bressler J**, Schuur M, Smith AV, Bis J, Davies G, Petrovic K, Kirin M, Zgaga L, Hayward C, Yang Q, Schmidt H, Breteler M, Wilson J, Seshadri S, Schmidt R, Fitzpatrick A, Deary I, van Duijn C, Ikram M, Launer L, Mosley T (2011) Genome wide association study of executive function. *Alzheimer's and Dementia* 7:Suppl. S186-S187

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17. Demerath EW, Guan W, Pankow JS, Grove ML, North K, Fornage M, **Bressler J**, Mosley TH, Boerwinkle E (2013) Genome-wide methylation study of body mass index (BMI) in African American adults: preliminary data from the ARIC study. American Heart Association Epidemiology and Prevention & Nutrition, Physical Activity and Metabolism 2013 Scientific Sessions, New Orleans, LA

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19. Rahbar MH, Samms-Vaughn M, Ma J, **Bressler J**, Loveland KA, Ardjomand-Hessabi M, Dickerson AS, Grove ML, Shakespeare-Pellington S, Beecher C, McLaughlin W, Boerwinkle E. Interaction between GSTT1 and GSTP1 as a modulator of risk for autism spectrum disorders. Translational Science 2014 Meeting, Washington, DC

20. Nguyen S, Guan W, Grove ML, **Bressler J**, Li Y, Fornage M, Boerwinkle E, North KE, Pankow JS, Demerath EW (2016) Adiposity-related DNA methylation as a predictor of coronary heart disease in adult African-Americans: The Atherosclerosis Risk in Communities Study. American Heart Association Epidemiology and Prevention/Lifestyle and Cardiometabolic Health 2016 Scientific Sessions, Phoenix AZ
Roger R. Williams Award for Genetic Epidemiology and the Prevention and Treatment of Atherosclerosis.

21 Raina A, Zhao X, **Bressler J**, Gottesman R, Grove M, Guan W, Pankow J, Boerwinkle E, Mosley T, Fornage M. Cerebral small vessel disease and the epigenetic clock. American Heart Association Epidemiology and Prevention/Lifestyle and Cardiometabolic Health 2016 Scientific Sessions, Phoenix AZ

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RESEARCH PUBLICATIONS:

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replicates: the Atherosclerosis Risk in Communities (ARIC) Study. *BMC Bioinformatics* 15:312 PMID: PMC4180315

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31. Rahbar MH, Samms-Vaughan M, Ma J, **Bressler J**, Loveland KA, Hessabi M, Dickerson AS, Grove ML, Shakespeare-Pellington S, Beecher C, McLaughlin W, Boerwinkle E (2015) Interaction between *GSTT1* and *GSTP1* allele variants as a risk modulating-factor for autism. *Res Autism Spectr Disord* 12:1-9 PMID: PMC4322427

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39. Jun G, Ibrahim-Verbaas CA, Vronskaya M, Lambert C, Chung J, Naj AC, Kunkle BW, Wang LS, Bis JC, Bellenguez C...**Bressler J (296/430)**...Lathrop M, Goate AM, Escott-Price V, Seshadri S, Pericak-Vance MA, Amouyel P, Williams J, van Duijn CM, Schellenberg GD, Farrer LA (2016) A novel Alzheimer disease locus located near the gene encoding tau protein. *Mol Psychiatry* 21:108 PMID: PMC4573764

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individuals identifies 148 independent genetic loci influencing general cognitive function. Nat Commun 29:2098 PMID: PMC5974083

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RESEARCH FUNDING:

Current Research Support:

5R01ES022165 (Rahbar, MH)

9/3/2013 –4/30/2018 (NCE)

NIH/FIC

1.0 calendar month

Epidemiological Research on Autism in Jamaica

The aim of this project is to increase collaboration among teams in the United States and Jamaica to build capacity for collecting genetic data and conducting epidemiologic research on autism spectrum disorders. A study will be carried out to examine whether exposure to environmental contaminants including polychlorinated

biphenyls, organochlorine pesticides, and heavy metals, polymorphisms in glutathione S-transferase genes, and their potential interaction play a role in susceptibility to autism.

Role: Co-investigator

Presidential Collaborative Research Award (Boerwinkle, E/Dash, P)

2/1/2017 – 1/31/2019

University of Texas Health Science Center at Houston

Genetic Contribution to Outcome After Concussion

0.6 calendar months

The goal of this project is to detect genetic variants associated with the persistence of neurological, cognitive, and behavioral symptoms following a concussion.

Role: Co-investigator

1R01HL131136 (Boerwinkle, E) 12/15/2016-11/30/2020

NIH/NHLBI

Epigenetics of Successful Aging

0.6 calendar months

This project will test the hypothesis that DNA methylation signatures measured in the blood of middle-aged adults are associated with successful aging patterns later in life.

Role: Co-investigator

HHSN2682017000011 (Couper, D.) 11/15/2016 – 11/14/2021

NIH/NHLBI University of North Carolina at Chapel Hill

1.2 calendar months

Atherosclerosis Risk in Communities (ARIC) Study – Renewal for Coordinating Center

As part of this contract, we will store new specimens collected as part of the Visit 7 clinical examination, maintain the ARIC genetic repository, and distribute specimens as approved by the ARIC Steering Committee.

Role: Co-investigator

R01HL141292 (Smith, J) 04/01/2018 - 03/31/2022

NIH / University of Michigan

0.6 calendar months

A Social Epigenomic Approach to Health Disparities in Cardiovascular Disease

The research objectives of this study include the use and interpretation of measures of Socioeconomic status and neighborhood characteristics collected in the

Atherosclerosis Risk in Communities (ARIC) Study so that they can be harmonized

with those of the other cohort studies participating in the project. Associations

between cardiovascular risk factors and socioeconomic/neighborhood factors,

between differentially methylated genomic regions and socioeconomic/neighborhood

factors, and DNA methylation sites that mediate the relationship between

cardiovascular risk factors and socioeconomic/neighborhood factors identified in the

discovery samples will be replicated in the ARIC study.

Role: Subcontract PI

2P01CA138338-06 (Hecht, S)

09/21/2016 – 08/30/2021

NIH/University of Minnesota

0.6 calendar months

Mechanisms of Ethnic/Racial Differences in Lung Cancer Due to Cigarette Smoking

The Human Genetics Center Laboratory will process ~400 samples using the MethylationEPIC arrays to characterize methylation differences in lung cancer cases that may be due to cigarette smoking.

Role: Co-Investigator

Completed Research Support (last three years):

354792 (Goldman, A)

02/1/2018 – 7/31/2018

Cure Citizens United for Research in Epilepsy/Baylor College of Medicine Pilot In Silico Mortality Risk Attribution in SUDEP and Sudden Death in the Young

(SUDY) to Inform Precision Medicine Molecular Diagnostics of Sudden Death

This goal of this project is to identify genetic variants associated with Sudden

Unexpected Death in Epilepsy using exome sequencing data.

Role: Subcontract PI

5U01AG049506-03 (Boerwinkle, E)

6/15/2014 – 5/31/2018

NIH/NIA

Sequence-Based Discovery of AD Risk and Protective Alleles – Project 2

This project will bring together experts in Alzheimer's disease, human genetics, biostatistics, and genome sciences to identify risk and protective single nucleotide and copy number variants influencing Alzheimer's disease and Alzheimer's disease-related endophenotypes.

Role: Co-Investigator

5R01NS087541-03 (Fornage, M MPI)

4/1/2014 - 3/31/2018

NIH/NINDS

An Integrated Genetic and Epigenetic Approach to Cerebral Small Vessel Disease

This is to identify genetic and epigenetic variants influencing brain vascular disease.

Role: Co-Investigator

PROFESSIONAL SOCIETIES:

American Society of Human Genetics (2018)

NATIONAL COMMITTEES AND CONSORTIA:

National Committees:

2008 NIH/NHLBI, Working Group on Epigenetic Contributions to Coronary Artery Disease

Epidemiology Study Consortium:

- 2008 – present Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Cognitive Function Working Group, representative – Atherosclerosis Risk in Communities (ARIC) Study; Chair (2016 – present)
- 2013 – present Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Epigenetics Working Group, representative – Atherosclerosis Risk in Communities (ARIC) Study
- 2018 – present NHLBI Trans-Omics for Precision Medicine (TOPMed) Program Neurocognitive Working Group representative – Atherosclerosis Risk in Communities (ARIC) Study

Journals (Reviewer):

- 2008 Physiological Genomics
- 2008 Journal of Clinical Endocrinology and Metabolism
- 2010 Annals of Human Genetics
- 2010 The Pharmacogenomics Journal
- 2010 Nutrition, Metabolism, and Cardiovascular Diseases
- 2010 American Journal of Epidemiology
- 2010 Carcinogenesis
- 2011 BMC Medical Genetics
- 2012 Obesity
- 2012 Cancer Causes and Control
- 2012 Atherosclerosis
- 2013 Atherosclerosis
- 2014 Neurology
- 2015 Obesity
- Nutrition and Diabetes
- Human Molecular Genetics
- 2016 Aging
- 2017 Obesity
- Nutrition and Diabetes
- 2018 PLoS One

UTHealth COMMITTEES:

- 2008 – present Animal Welfare Committee

SCHOOL of PUBLIC HEALTH COMMITTEES:

- 2008 – 2010 Peer Review Committee
- 2011- present Admissions Committee, Department of Epidemiology, Human Genetics and Environmental Sciences (non-voting member)
- 2011- present Core Curriculum Committee, Department of Epidemiology, Human

2011-2012 Genetics and Environmental Sciences
Office of Academic Advising, Department of Epidemiology, Human
Genetics and Environmental Sciences

**TEACHING EXPERIENCE: UTHealth SCHOOL of PUBLIC HEALTH and M.D.
ANDERSON UTHealth GRADUATE SCHOOL of BIOMEDICAL SCIENCES**

2005 – 2011 Lecturer, University of Texas School of Public Health, Genetics and
2015 - 2018 Human Disease (Course PH 2815)

2006 – 2007 Lecturer, M.D. Anderson University of Texas Health Science Center at
Houston Graduate School of Biomedical Sciences, Current Topics in
Human and Molecular Genetics (Course GS110631)

2007 Lecturer, University of Texas School of Public Health, Pathology and
Public Health (Course PH 2810)

2007 – 2008 Lecturer, University of Texas School of Public Health, Genetic
Epidemiology of Chronic Disease (Course PH 2950)

2007 – 2008 Co-Coordinator, University of Texas School of Public Health, Advanced
Epidemiologic Methods I (Course PH 2710)

2007 – present Coordinator, University of Texas School of Public Health, Seminar
in Genetics and Population Biology (Course PH 2960)

2007 – 2016 Co-Coordinator, M.D. Anderson University of Texas Health Science
Center at Houston Graduate School of Biomedical Sciences, Molecular
and Cellular Approaches to Human Disease (Course GS110023)

2009 - present Co-Coordinator, University of Texas School of Public Health, Genetic
Epidemiology of Chronic Disease (Course PH 2950)

2009 Lecturer, University of Texas School of Public Health, Mutagenesis and
Carcinogenesis (Course PH 2165)

2009 Teaching Associate, Fundamentals of Epidemiology (Course
20093PHW2610L200)

2010 - present Co-Coordinator, University of Texas School of Public Health,
Neuroepidemiology (Course PH 2998 L)

2010 – 2011 Lecturer, University of Texas School of Public Health, Genetics and
Infectious Disease (Course PH 2731)

2015 - 2018 Lecturer, University of Texas School of Public Health, Economic and

Social Determinants of Health (Course PH 3922)

2016 – 2017 Lecturer, University of Texas School of Public Health, Foundations of Public Health Genetics (Course PH 2970)

TEACHING EXPERIENCE: INVITED LECTURES

2015 Neurepiomics Summer School, Epidemiology of Vascular and Brain Aging in Cohorts with Large Scale Imaging and Omics Data; University of Bordeaux, Bordeaux, France: “Genetic Epidemiology of Cognition”

TEXAS MEDICAL CENTER COMMITTEES:

2010 - present Baylor College of Medicine Alumni Association Executive Committee