CURRICULUM VITAE (October 2024)

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PROFESSIONAL EXPERIENCE:

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2001-2005 Baylor College of Medicine, Houston, Texas
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1993 M.D. Anderson Cancer Center, Houston, Texas
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Research Trainee
genetic epidemiology of breast cancer in the Li-Fraumeni familial cancer syndrome
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1991 Columbia University, New York, New York
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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
Research Assistant
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.

2. Andreeff M, Slater DE, **Bressler J**, Furth ME (1985) Cellular oncogene expression measured by flow cytometry in a hematopoietic cell line. UCLA Symposium on Molecular and Cellular Biology: Leukemia; Keystone, Colorado

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4. Hegewisch S, **Bressler J**, Haimi J, Souza L, Welte K, Andreeff M (1988) Induction of differentiation by granulocyte and granulocyte-macrophage colony-stimulating factor and cytosine arabinoside in the human myeloid leukemic cell line KG-1. Proc Am Assoc Cancer Res. 29:368.

5. Cattanach BM, Barr J, Beechey CV, **Bressler J**, Sutcliffe JS, Beaudet AL, Martin J, Noebels JL, Jones J (1996) A mouse model for Angelman syndrome. Am J Hum. Genet. 59 Suppl., A59.

6. Tsai TF, Jiang YH, **Bressler J**, Beaudet AL (1997) Generation of mouse models for Prader-Willi syndrome by Cre/*lox*P-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

18. Pankow JS, Demerath EW, Guan W, **Bressler J**, Fornage M, Hicks C, Mosley TH, Boerwinkle E (2013) Epigenome-wide methylation profiling in a CVD cohort: the ARIC study. American Heart Association Epidemiology and Prevention & Nutrition, Physical Activity and Metabolism 2013 Scientific Sessions, New Orleans, LA

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

22. **Bressler J**, Davies G, Fawns-Ritchie C, Smith AV, Bis JC, Smith JA, Yanek LR, Marioni RE, Huffman JE, Polasek O, Mirza SS, van der Lee SJ, Grove ML, Boerwinkle E, Launer LJ, Fitzpatrick AL, Fornage M, Turner ST, Kardi SLR, Nyquist P, Becker D, Porteous DJ, Hayward C, Campbell H, Rudan I, Ikram MA, van Duijn CM, Seshadri S, Mosley TH, Deary IJ. Association of low-frequency and rare coding variants with information processing speed. Alzheimer's Association International Conference 2016, Toronto, Canada

23. Guan W, Chen Q, Pankow JS, Demerath EW, **Bressler J**. Grove ML, Fornage M. An epigenome correlation map using Infinium 450 DNA methylation array ((Program Number 1663) Presented at the 67th Annual Meeting of the American Society of Human Genetics, October 18, Orlando, Florida)

24. Justice A, Lim E, Grove ML, Heard-Costa N, Guan W, **Bressler J**, Fornage M, Boerwinkle E, Li Y, Demerath EW, Whitsel EA, Gordon-Larsen P, Howard A, Cupples LA, Liu C, North KE. Methylation-wide association study of sex-specific methylation effects on central adiposity (Program Number 1550T) Presented at the 67th Annual Meeting of the American Society of Human Genetics, October 19, Orlando, Florida)

25. Guan W, Bai Y, Pankow JS, Demerath EW, **Bressler J**, Grove ML, Fornage M. Incorporate measurement errors in epigenome-wide association studies (Program Number 1966) Presented at the 68th Annual Meeting of the American Society of Human Genetics, October 17, San Diego, California)

26. Lahti J, Tuominen S, Yang Q, Medland S, Painter J, Gerring Z, Derks J, **Bressler J**, Mosley T Jr, van Duijn C, Launer LJ, Debette S, Deary I, Seshadri S, Raikonnen K; CHARGE Consortium Cognitive Working Group. Genome-wide meta-analyses reveal novel loci for verbal short-term memory and learning and show genetic correlation with schizophrenia, Alzheimer disease, and type 2 diabetes (Program Number 1948) Presented at the 68th Annual Meeting of the American Society of Human Genetics, October 18, San Diego, California)

27. Castellani CA, Longchamps RJ, Sumpter JA, Newcomb CE, Lane JA, Grove ML, **Bressler J**, Brody JA, Floyd JS, Taylor KD, Tin A, Coresh J, Pankow JS, Fornage M, Guallar E, O'Rourke B, Pankratz N, Sotoodehnia N, Boerwinkle, Arking DE. Mitochondrial DNA copy number (mtDNA-CN) influences DNA methylation at CpGs associated with neuroactive ligand-receptor pathway interactions. (Program Number 2441) Presented at the 68th Annual Meeting of the American Society of Human Genetics, October 17, San Diego, California)

28. Sarnowski C, Chen H, Biggs ML, Wassertheil-Smoller S, **Bressler J**, Irvin MR, Ryan KA, O'Connell JR, Fardo DW, Karasik D, Keil DP, Murabito J, Lunetta K; the TOPMed Longevity and Healthy Aging Working Group. Association analysis of handgrip strength in targeted loci from GWAS using targeted measures and whole-genome sequence data from the Trans-Omics for Precision Medicine (TOPMed) Program (Program Number 2854) Presented at the 69th Annual Meeting of the American Society of Human Genetics, October 15, Houston, Texas)

29. Nguyen S, Guan W, **Bressler J**, Grove ML, Xia R, Wang Z, Fernandez-Rhodes L, Justice A, Li Y, Whitsel E, North KE, Fornage M, Boerwinkle E, Pankow JS, Demerath EW. Metabolically healthy obesity and accelerated epigenetic age in African American adults: The Atherosclerosis Risk in Communities (ARIC) Study. American Heart Association Epidemiology and Prevention/Lifestyle and Cardiometabolic Health 2020 Scientific Sessions, Phoenix AZ

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31. Uddin MM, Yu B, Brody J, Pampana A, Bick A, **Bressler J,** Fornage M, Chander V, Gibbs R, Kiel D, Whitsel E, Liu C, Baccarelli A, Murabito J, Boerwinkle E, Floyd J, Ballantyne C, Psaty B, Natarajan P, Conneely K. Clonal hematopoiesis of indeterminate potential may contribute to age-related DNA methylation signatures: a discovery and replication analysis in the Cardiovascular Health Study (CHS) and Atherosclerosis Risk in Communities Study. Presented at the 70th Annual Meeting of the American Society of Human Genetics, Virtual

32. Hahn J, **Bressler J**, Brown MR, Fornage M, Bell J, Dehghan A, Domingo-Relloso A, Guo X, Johnson AD, Kleber M, McCartney D, Morange P-E, Smith NL, Teumer A, Zhao W, Morrison AC, de Vries PS, CHARGE Epigenetics and Hemostasis Working Groups. Epigenome-wide association study of DNA methylation in blood and circulating fibrinogen levels. International Society on Thrombosis and Haemostasis (ISTH) July 17-21, 2021 Virtual Congress

33. Mahmud S, Mei H, Tin A, **Bressler J**, Pruett WA, Fornage M, Huang J, Boerwinkle E, Mosley T, Simino J. Whole exome sequence study of mild cognitive impairment in African and European Americans: the Atherosclerosis Risk in Communities Neurocognitive Study. Alzheimer's Association International Conference Neuroscience Next, October 12-13, 2021, Virtual

34. Smith JA, Kho M, **Bressler J**, Sarnowski C, Zhao W, Chaar D, Wang YZ, Bis J, Nyquist P, Heckbert S, Fitzpatrick A, Snively B, Rodrigue A, Litkowski E, Glahn D, Kardia SLR, Fornage M, Seshadri on behalf of the TOPMed Neurocognitive Working Group. Whole genome sequencing association analysis of general cognitive function in a multi-ethnic sample from the Trans-Omics for Precision Medicine (TOPMEd) Program. Presented at the 71st Annual Meeting of the American Society of Human Genetics, Virtual

35. Chittoor G, Lim E, Grove ML, Whitsel EA, Liu C-T. Cupples A, Fernandez-Rhodes L, Guan W, **Bressler J**, Fornage M, Boerwinkle E, Li Y, Demerath E, Heard-Costa N, Gordon-Larsen P, Howard AG, North KE, Justice AE. Methylome-wide association study of sex-specific effects on central adiposity. The Obesity Society Annual Meeting, November 1-5, 2021, Virtual

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4. Jiang YH, Tsai TF, **Bressler J**, Beaudet AL (1998) Imprinting in Angelman and Prader-Willi syndromes. Curr Opin Genet Dev. 8:334-342.

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6. Tsai TF, Jiang YH, **Bressler J**, Armstrong D, Beaudet AL (1999) Paternal deletion from *Snrpn* to *Ube3a* in the mouse causes hypotonia, growth retardation and partial lethality and provides evidence for a gene contributing to Prader-Willi syndrome. Hum Mol Genet. 8:1357-1364.

7. **Bressler J**, Tsai TF, Wu MY, Tsai SF, Ramirez MA, Armstrong D, Beaudet AL (2001) The SNRPN promoter is not required for genomic imprinting of the Prader-Willi/Angelman domain in mice. Nat Genet. 28:232-240.

8. Tsai TF, **Bressler J**, Jiang YH, Beaudet AL (2003) Disruption of the genomic imprint in *trans* with homologous recombination at Snrpn in ES cells. Genesis 37:151-161.

9. Jiang YH, **Bressler J**, Beaudet AL (2004) Epigenetics and human disease. Annu Rev Genomics Hum Genetics 5:479-510.

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16. Demerath EW, Lutsey PL, Monda KL, Kao WHL, **Bressler J**, Pankow JS, North KE, Folsom AR (2011) Interaction of FTO SNP rs9939609 and habitual physical activity level on adiposity in African-American and European-American adults: The ARIC Study. Obesity 19:1866-1872 PMCID: PMC3293392

17. **Bressler J**, Shimmin LC, Boerwinkle E, Hixson JE (2011) Global DNA methylation and subclinical atherosclerosis in young adults: The Pathobiological Determinants of Atherosclerosis in Youth (PDAY) study. Atherosclerosis 219:958-962 PMCID: PMC3272499

18. Rahbar MH, Samms-Vaughan M, Loveland KA, Pearson DA, **Bressler J**, Chen Z, Ardjomand-Hessabi M, Shakespeare-Pellington S, Grove ML, Beecher C, Bloom K, Boerwinkle E (2012) Maternal and paternal age are jointly associated with childhood autism in Jamaica. Journal of Autism and Developmental Disorders 42:1928-1938 PMCID: PMC3858006

19. Rahbar MH, Samms-Vaughan M, Ardjomand-Hessabi M, Loveland KA, Dickerson AS, Chen Z, **Bressler J**, Shakespeare-Pellington, Grove ML, Bloom K, Wirth J, Pearson DA Boerwinkle E (2012) The role of drinking water sources, consumption of vegetables and seafood to blood arsenic concentrations of Jamaican children with autism spectrum disorders. Science of the Total Environment 433:362-370 PMCID: PMC3418487

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21. Rahbar MH, Samms-Vaughan M, Loveland KA, Ardjomand-Hessabi M, Chen Z, **Bressler J**, Shakespeare-Pellington S, Grove ML, Bloom K, Pearson DA, Lalor GA, and Boerwinkle E (2013) Seafood consumption and blood mercury concentrations in children

with and without autism spectrum disorders. Neurotoxicity Research 23:22-38 PMCID: PMC3969434

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23. European Alzheimer's Disease Initiative (EADI); Genetic and Environmental Risk in Alzheimer's Disease; Alzheimer's Disease Genetic Consortium; Cohorts for Heart and Aging Research in Genomic Epidemiology, Lambert JC, Ibrahim-Verbaas CA, Harold D, Naj AC, Sims R, Bellenquez C, DeStefano AL, Bis JC, Beecham GW, Grenier-Bolley B… **Bressler J** (**369/443**)…Pericak-Vance MA, Launer LJ, Farrer LA, van Duijn CM, Van Broeckhoven C, Moskvina V, Seshadri S, Williams J, Schellenberg GD, Amouyel P (2013) Meta-analysis of 74,046 individuals identifies 11 new susceptibility loci for Alzheimer's disease. Nat Genet 45:1452-1458 PMCID: PMC3896259

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25. Rahbar MH, Samms-Vaughan M, Ma J, **Bressler J**, Loveland KA, Ardjomand-Hessabi M, Dickerson AS, Grove ML, Shakespeare-Pellington S, Beecher C, McLaughlin W, Boerwinkle E (2014) Role of metabolic genes in blood arsenic concentrations of Jamaican children with and without autism spectrum disorder. Int J Environ Res Public Health 11:7874-7895 PMCID: PMC4143838

26. Rahbar MH, Samms-Vaughan M, Dickerson AS, Loveland KA, Ardjomand-Hessabi M, **Bressler J**, Shakespeare-Pellington S, Grove ML, Pearson DA, Boerwinkle E (2014) Blood manganese concentrations in Jamaican children with and without autism spectrum disorders. Environ Health 13:69 PMCID: PMC4237806

27. Rahbar MH, Samms-Vaughan M, Dickerson AS, Loveland KA, Ardjomand-Hessabi M, **Bressler J**, Lee M, Shakespeare-Pellington S, Grove ML, Pearson DA, Boerwinkle E (2014) Role of fruits, grains, and seafood consumption in blood cadmium concentrations of Jamaican children with and without autism spectrum disorder. Res Autism Spectr Disord 8:1134-1145 PMCID: PMC4114722

28. Bose M, Wu C, Pankow JS, Demerath EW, **Bressler J**, Fornage M, Grove ML, Mosley TH, Hicks C, North K, Kao WH, Zhang Y, Boerwinkle E, Guan W (2014) Evaluation of microarray-based DNA methylation measurement using technical

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

29. Rahbar MH, Samms-Vaughan M, Dickerson AS, Loveland KA, Ardjomand-Hessabi M, **Bressler J**, Shakespeare-Pellington S, Grove ML, Pearson DA, Boerwinkle E (2014) Blood lead concentrations in Jamaican children with and without autism spectrum disorder. Int J Environ Res Pub Health 12:83-105 PMCID: PMC4306851

30. Davies G, Armstrong A, Bis J, **Bressler J**, Chouraki V, Giddaluru S, Hofer E, Ibrahim-Verbaas CA, Kirin M, Lahti J…(+ 112)…Wilson JF, van Duijn C, Launer L, Fitzpatrick AL, Seshadri S, Mosley TH, Deary IJ. (2015) Genetic contributions to variation in general cognitive function: a meta-analysis of genome-wide association studies in the CHARGE consortium (N = 53949). Mol Psychiatry 20:183-192 PMCID: PMC4356746

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 PMCID: PMC4322427

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33. Debette S*, Ibrahim-Verbaas CA*, **Bressler J***, Schuur M*, Smith A*, Bis JC*, Davies G*, Wolf C* … (+ 109) …Bennett DA*, Ikram MA, Deary IJ*, van Duijn CM*, Launer L*, Fitzpatrick AL*, Seshadri S*, Mosley TH Jr*; Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium (2015) Genome-wide studies of verbal declarative memory in non-demented older people: the Cohorts for Heart and Aging Research in Genomic Epidemiology consortium. Biol Psychiatry 77:749-763 PMCID: PMC4513651 *authors contributed equally

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35. Aslibekyan S, Demerath EW, Mendelson M, Zhi D, Guan W, Liang L, Sha J, Pankow JS, Irvin MR, Fornage M, Hidalgo B, Lin LA, Stanton Thibeault KS, **Bressler J**, Tsai MY, Grove ML, Hopkins PN, Boerwinkle E, Borecki IB, Ordovas JM, Levy D, Tiwari HK, Absher DM, Arnett DK (2015) Epigenome-wide study identifies novel methylation loci associated with body mass index and waist circumference. Obesity (Silver Spring) 23:1493-1501 PMCID: PMC4482015

36. **Bressler J**, Franceschini N, Demerath EW, Mosley TH, Folsom AR, Boerwinkle E (2015) Sequence variation in telomerase reverse transcriptase (TERT) as a determinant of cardiovascular disease: the Atherosclerosis Risk in Communities (ARIC) Study. BMC Med Genet 16:52 PMCID: PMC4557920

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120. Hindley G, Shadrin AA, van der Meer D, Parker N, Cheng W, O'Connell KS, Bahrami S, Lin A, Karadag N, Holen B, Bjella T, Deary IJ, Davies G, Hill WD, **Bressler J**, Seshadri S, Fan CC, Ueland T, Djurovic S, Smeland OB, Frei O, Dale AM, Andreassen OA (2023) Multivariate genetic analysis of personality and cognitive traits reveals abundant pleiotropy. Nat Hum Behav 7:1584-1600 PMCID: PMC10824266

121. Zhao N, Teles F, Lu J, Koestler DC, Beck J, Boerwinkle E, **Bressler J**, Kelsey KT, Platz EA, Michaud DS (2023) Epigenome-wide association study using peripheral blood leukocytes identifies genomic regions associated with periodontal disease and edentulism in the Atherosclerosis Risk in Communities study. J Clin Peridontol 50:1140-1153 PMCID: PMC10528731

122. Tin A, Fohner AE, Yang Q, Brody JA, Davies G, Yao J, Liu D, Caro I, Lindbohm JV, Duggan MR, Meirelles O, Harris SE, Gudmundsdottir V, Taylor AM, Henry A, Beiser AS, Shojaie A, Coors A, Fitzpatrick AL, Langenberg C, Satizabal CL, Sitlani CM, Wheeler E, Tucker-Drob EM, **Bressler J**, Coresh J, Bis JC, Candia J, Jennings LL, Pietzner M, Lathrop M, Lopez OL, Redmond P, Gerszten RE, Rich SS, Heckbert SR, Austin TR, Hughes TM, Tanaka T, Emilsson V, Vasan RS, Guo X, Zhu Y, Tzourio C, Rotter JI, Walker KA, Ferrucci L, Kivimäki M, Breteler MMB, Cox SR, Debette S, Mosley TH, Gudnason VG, Launer LJ, Psaty BM, Seshadri S, Fornage M (2023) Identification of circulating proteins associated with general cognitive function among middle-aged and older adults. Commun Biol 6:1117 PMCID: PMC10624811

123. Zaman SF, Samms-Vaughan M, Saroukhani S, **Bressler J**, Hessabi M, Grove ML, Pellington SS, Loveland KA, Rahbar MH (2024) Factors associated with blood mercury concentrations and their interactions with three gluatathione S-transferase genes (GSTT1, GSTM1, and GSTP1): an exposure assessment study of typically developing Jamaican children. BMC Pediatr 24:14

124. Mei H, Simino J, Li L, Jiang F, Bis JC, Davies G, Hill WD, Xia C, Gudnason V, Yang Q, Lahti J, Smith JA, Kirin M, De Jager P, Armstrong NJ, Ghanbari M, Kolcic I, Moran C, Teumer A, Sargurupremraj M, Mahmud S, Fornage M, Zhao W, Satizabal CL, Polasek O, Räikkönen K, Liewald DC, Homuth G, Callisaya M, Mather KA, Windham BG, Zemunik T, Palotie A, Pattie A, van der Auwera S, Thalamuthu A, Knopman DS, Rudan I, Starr JM, Wittfeld K, Kochan NA, Griswold ME, Vitart V, Brodaty H, Gottesman R, Cox SR, Psaty BM, Boerwinkle E, Chasman DI, Grodstein F, Sachdev PS, Srikanth V, Hayward C, Wilson JF, Eriksson JG, Kardia SLR, Grabe HJ, Bennett DA, Ikram MA, Deary IJ, van Duijn CM, Launer L, Fitzpatrick AL, Seshadri S, **Bressler J**, Debette S, Mosley TH Jr. (2024) Multi-omics and pathway analyses of genome-wide

associations implicate regulation and immunity in verbal declarative memory performance. Alzheimers Res Ther 16:14 PMCID: PMC10799499

125. Saroukhani S, Samms-Vaughan M, **Bressler J**, Lee M, Byrd-Williams C, Hessabi M, Grove ML, Shakespeare-Pellington S, Loveland KA, Rahbar MH (2024) Additive or interactive associations with food allergies with glutathione-S transferase genes in relation to ASD and ASD severity in Jamaican children. J Autism Dev Disord 54:704-724

126. Gallego-Fabrega C, Temprano-Sagrera G, Cárcel-Márquez J, Muiño E, Cullell N, Lledós M, Llucià-Carol L, Martin-Campos JM, Sobrino T, Castillo J, Millán M, Muñoz-Narbona L, López-Cancio E, Ribó M, Alvarez-Sabin J, Jiménez-Conde J, Roquer J, Tur S, Obach V, Arenillas JF, Segura T, Serrano-Heras G, Marti-Fabregas J, Freijo-Guerrero M, Moniche F, Castellanos MDM, Morrison AC, Smith NL, de Vries PS, Fernández-Cadenas I, Sabater-Lleal M (2024) A multitrait genetic study of hemostatic factors and hemorrhagic transformation after stroke treatment. J Thromb Haemost 22:936-950 PMCID: PMC11103592

127. Xia R, Jian X, Rodrigue AL, **Bressler J**, Boerwinkle E, Cui B, Daviglus ML, DeCarli C, Gallo LC, Glahn DC, Knowles EEM, Moon JY, Mosley TH, Satizabal CL, Sofer T, Tarraf W, Testai F, Blangero J, Seshadri S, González HM, Fornage M (2024) Admixture mapping of cognitive function in diverse Hispanic and Latino adults: results from the Hispanic Community Health Study/Study of Latinos. Alzheimers Dement (July 2024, online ahead of print)

128. Yazdani A, Samms-Vaughan M, Saroukhani S, **Bressler J**, Hessabi M, Tahanan A, Grove ML, Gangnus T, Putluri V, Kamal AHM, Putluri N, Loveland KA, Rahbar MH (2024) Metabolomic profiles in Jamaican children with and without autism spectrum disorder. J Autism Dev Disord (July 2024, online ahead of print)

129. Semancik CS, Zhao N, Koestler DC, Boerwinkle E, **Bressler J**, Buchsbaum RJ, Kelsey KT, Platz EA, Michaud DS (2024) DNA methylation-derived immune cell proportions and cancer risk in black participants. Cancer Res Commun (September 2024, online ahead of print)

130. Glover L, Lilly AG, Justice AE, Howard AG, Staley BS, Wang Y, Kamens HM, Ferrier K, **Bressler J**, Loehr L, Raffield LM, Sims M, North KE, Fernandez-Rhodes L (2024) DNA methylation near MAD1L1, KDM2B, and SOCS3 mediates the effect of socioeconomic status on elevated body mass index in African American adults. Hum Mol Genet 33:1748-1757

RESEARCH FUNDING:

Current Research Support:

75N92022D00001 (Couper, D) 01/15/2021 – 11/14/2028

NIH/NHLBI University of North Carolina at Chapel Hill
0.60 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 12 clinical examination, maintain the ARIC genetic repository, and distribute specimens as approved by the ARIC Steering Committee.
Role: Co-investigator

5U01HL096812-13 (Coresh, J/Mosley, TH) 04/01/2024 - 03/31/2029
NIH/NHLBI New York University School of Medicine
0.60 calendar months (NCE)
ARIC Neurocognitive Study (ARIC-NCS) Renewal
This renewal will address the need to better understand the risk of Alzheimer's related dementias (AD/ADRD) among the oldest old (85+ years, proposed visits 11-13).
Role: Co-Investigator

5R01DK124399 (Grams, M/Coresh, J) 03/13/2022 –02/28/2025
NIH/NIDDK New York University School of Medicine
0.60 calendar months
Integrative Omics, CKD and Adverse Outcomes in Older Adults
The goal is to integrate multi-omics data to elucidate biological pathway underlying chronic kidney disease risk with the purpose of improving risk prediction, prevention, and prognosis.
Role: Co-Investigator

R011HL161012-01A1 (Sofer, T) 07/01/2022 – 06/30/2027
NIH/NHLBI Beth Israel Deaconess Medical Center
0.60 calendar months
Leveraging Omics Data to Understand Sleep Health and its Consequences
The major goal of this project is to apply integrative and multi-disciplinary research to study sociocultural determinants of sleep health, and downstream mechanisms that result in sleep health-related risk of diabetes, hypertension, and cognitive decline in U.S. Hispanics/Latinos
Role: Co-Investigator

HHSN26820160000033I (Gibbs, RA) 09/25/2020 –09/24/2025
NIH/NHLBI Baylor College of Medicine
1.20 calendar months (NCE)
TOPMed Centralized Omics Resource (CORE)
The major goal of this project is to provide targeted and non-targeted metabolite profiling for plasma or serum samples from individuals included in designated NHLBI Trans-Omics for Precision Medicine (TOPMed) program Project Studies.
Role: Co-Investigator

R011AG080598-01A1 (Sofer, TI) 09/20/2023 – 05/31/2028
NIH/NIA Beth Israel Deaconess Medical Center
0.84 calendar months
Using polygenic risk scores and omics to study how suboptimal sleep accelerates cognitive aging in diverse populations
The major goal is to identify sleep phenotypes that are genetically associated with cognitive aging by developing polygenic risk scores in three cohort studies that include individuals from diverse U.S. populations.
Role: Consortium PI

Completed Research Support (last three years):

5R01HL141291 (Morrison, AC MPI) 02/01/2019 – 01/31/2025
NIH/NHLBI
1.20 calendar months (NCE)
Using Genomics and Functional Biology to Understand Fibrinogen and its Effect on Thrombotic and Atherosclerotic Outcomes
Through this interdisciplinary collaboration between genetic epidemiologists and functional biologists, we will investigate fibrinogen-associated loci to characterize the genomic regulation of fibrinogen, assess epigenetic association with fibrinogen levels, and translate results of genomic studies into a clear understanding of fibrinogen's role in thrombotic and atherosclerotic disease.
Role: Co-Investigator

5R01AG058921 (Allred, ND) 01/01/2021 - 12/31/2023
NIH/NIA Wake Forest School of Medicine
0.84 calendar months
Metabolomics of Neurocognitive Risk for Dementia in Diabetes
Type 2 diabetes is an established risk factor for dementia and cognitive decline. The goals of this proposal are to better understand the molecular basis of cognitive decline in the presence of diabetes by assessing the role of circulating metabolites in its pathophysiology, and to identify relevant metabolites associated with variation in cognitive function that could serve as biomarkers. A comprehensive genetic analysis of cognitive change and of metabolite levels associated with this phenotype will be performed. This project will be carried out in the setting of the Diabetes Heart Study (DHS) MIND cohort and significant findings will be replicated in the Atherosclerosis Risk in Communities (ARIC) Study.
Role: Subcontract PI

5R01AR073178 (Tin, A) 09/21/2018 - 11/30/2023
NIH/NIAMS University of Mississippi Medical Center
0.48 calendar months
Identifying Novel Biological Pathways for Gout by Integrating DNA Methylation and Genetics
The Human Genetics Center Laboratory will measure genome-wide methylation using the Illumina Infinium MethylationEPIC array on 1,300 samples in order to

characterize methylation and evaluate epigenetic patterns associated with gout.
Role: Co-Investigator

3OT2OD002751 (Gibbs, RA) 09/01/2019 - 07/31/2023
NIH/OD Baylor College of Medicine
1.20 calendar months
The Baylor-Hopkins Clinical Genomics Center for All of Us
The goal of this project is to initiate large scale genotyping and whole genome sequencing in order to meet the long-term goals of guiding lifetime genetic risk assessment for all.
Role: Co-Investigator

1R03 AG065420 (Bressler, J) 08/15/2019 – 04/30/2023
NIH/NIA
0.36 calendar months (NCE)
Metabolomic Profiles of Depression and Social Isolation in Midlife
With the long-term goal of identifying biological pathways that contribute to these phenotypes, this research will test the hypotheses that circulating serum metabolites measured in middle-aged adults are associated with depression, and measures of social isolation and social support; that common and rare genetic variants associated with these metabolites are also associated with the corresponding psychosocial factor; and that the same variants are associated with incident coronary heart disease, incident stroke, incident heart failure, and cognitive decline in the setting of the prospective biracial ARIC Study.
Role: Principal Investigator

R01HL141292 (Smith, J) 04/01/2018 - 01/21/2023
NIH/NHLBI University of Michigan
1.20 calendar months (NCE)
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, 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

1R01HL131136 (Boerwinkle, E) 12/15/2016-11/30/2022
NIH/NHLBI
0.60 calendar months (NCE)
Epigenetics of Successful Aging
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

PROFESSIONAL SOCIETIES:

American Society of Human Genetics (2018 - present)

NATIONAL COMMITTEES AND CONSORTIA:

National Committees:

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

Peer Review Committees:

2022 NIH Special Emphasis Panel/Scientific Review Group 2023/01 ZRG1 F18-L, Epidemiology and Population Sciences; Reviewer

Epidemiology Study Consortium:

2008 – present Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Neurology Working Group, representative – Atherosclerosis Risk in Communities (ARIC) Study; Chair, Cognitive Function Working Group (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

2019 – present Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, Hemostasis 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

2019 – present NHLBI Trans-Omics for Precision Medicine (TOPMed) Program Aging and Longevity 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
2019	Molecular Genetics and Genomic Medicine
	Epigenetics
2020	Journal of Alzheimer's Disease
2021	British Journal of Cancer
	Journal of Gerontology: Medical Sciences
2022	Journal of Gerontology: Biological Sciences
2023	HGG Advances
2024	Molecular Neurobiology
	Journal of Gerontology: Medical Sciences

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
2011- present	Core Curriculum Committee, Department of Epidemiology, Human Genetics and Environmental Sciences
2011-2012	Office of Academic Advising, Department of Epidemiology, Human Genetics and Environmental Sciences

SCHOOL of PUBLIC HEALTH ADVISORY COMMITTEES:

Academic Advisor, M.P.H. or M.S. Students, Department of Epidemiology, Human Genetics and Environmental Sciences:

2006 – 2009	Zubin Segal, M.P.H candidate
2006 – 2008	Priyanka Desai, M.P.H. candidate

2007 – 2010 Sukhdeep Basra, M.P.H. candidate
2007 – 2009 Joseph William, M.P.H. candidate
2007 – 2009 Jesse Dunkle, M.P.H. candidate
2007 – 2009 Colin Malone, M.P.H. candidate
2007 – 2008 Jaffar Alfardan, M.P.H. candidate, (Dallas)
2008 – 2011 Simit Doshi, M.P.H. candidate
2009 – 2012 Tejal Patel, M.P.H. candidate
2010 – 2011 Cosmina Gingaras, M.P.H. candidate
2010 – 2012 Xiang Shu, M.S. candidate
2010 – 2013 Harleen Sandhu, M.P.H. candidate
2010 – 2012 Abhijit Salaskar, M.P.H. candidate
2010 – 2012 Shishir Raman, M.P.H. candidate
2010 – 2012 Mandar Karhade, M.P.H. candidate
2010 – 2012 Ramona Barac, M.P.H. candidate
2010 – 2011 Azy Zangeneh, M.P.H. candidate
2010 – 2016 Pritul Patel, M.P.H. candidate
2011 – 2012 Puja Aggarwal, M.P.H. candidate
2011 – 2013 Rachel Atkinson, M.P.H. candidate
2011 – 2013 Jinhye Cha, M.P.H. candidate
2011 – 2013 Joanne Espinosa, M.P.H. candidate
2011 – 2012 Vaiva Gerasimaviciute, M.P.H. candidate
2011 – 2014 Swapnil Khose, M.P.H. candidate
2011 – 2014 Harshad Ladha, M.P.H. candidate
2011 – 2013 Bingjie Li, M.P.H. candidate
2011 – 2013 Jin Liu, M.P.H. candidate
2011 – 2013 Divina Oweis, M.P.H. candidate
2011 – 2012 Krunal Patel, M.P.H. candidate
2011 – 2014 Shekhar Patil, M.P.H. candidate
2011 – 2015 Seema Prasad, M.P.H. candidate
2011 – 2012 Khantil Shah, M.P.H. candidate
2011 – 2015 Maithili Shethia, M.P.H. candidate
2011 – 2013 Ashita Sinha, M.P.H. candidate
2011 – 2014 Saurabh Talathi, M.P.H. candidate
2011 – 2013 Xerxes Pundole, M.P.H. candidate
2011 – 2014 Aisha Rafiq, M.P.H. candidate
2012 – 2016 Dhaval Desai, M.P.H. candidate
2012 – 2015 Tushar Pawar, M.P.H. candidate
2012 – 2014 Amruta Atre, M.P.H. candidate
2012 – 2013 Angela Bhalla, M.P.H. candidate
2012 – 2014 Priyanka Priyanka, M.P.H. candidate
2012 – 2014 Nisarg Shah, M.P.H. candidate
2012 – 2014 Manu Sharma, M.P.H. candidate
2012 – 2014 Gaya Perera, M.P.H. candidate
2012 – 2014 Michael Strayhorn, M.P.H. candidate
2013 – 2015 Yohanna Cerna, M.P.H. candidate
2013 – 2014 Kelly Colclasure, M.P.H. candidate

2013 – 2015	Liyun Fan, M.P.H. candidate
2014 – 2016	Kankana Ghosh, M.P.H. candidate
2014 – 2015	Tahani Hamdan, M.P.H. candidate
2014 – 2016	Tehseen Iqbal, M.P.H. candidate
2015 – 2017	Aditya Wagh, M.P.H. candidate
2015 – 2017	Neha Desai, M.P.H. candidate
2015 – 2018	Rutvij Shah, M.P.H. candidate
2015 – 2016	Sanjana Srinivasan, M.P.H. candidate
2016 – 2017	Jessica Bauldry, M.P.H. candidate
2016	Viridiana Sauceda, M.P.H. candidate
2015 – 2016	Hem Desai, M.P.H. candidate
2016 – 2017	Anshu Khanna, M.P.H. candidate
2016	Awatif Albalawi, M.P.H. candidate
2017 – 2020	Chidi Okoro, M.P.H. candidate
2017 – 2019	Rachel Treistman, M.P.H. candidate
2017 – 2019	Emily Scannapieco, M.P.H. candidate
2017 – 2019	Patrick Nwachuku, M.P.H. candidate
2017 – 2019	Sherri Hong, M.P.H. candidate
2017 – 2020	Vikaash Hariharan, M.P.H. candidate
2018 – 2020	Megan Bruns, M.P.H. candidate
2018 – 2020	Amrita Patil, M.P.H. candidate
2018 – 2020	Megan Rafferty, M.P.H. candidate
2018 – 2020	Divya Prakriya, M.P.H. candidate
2019 – 2021	Noemie Demonet, M.P.H. candidate
2019 – 2021	Laura Klein, M.P.H. candidate
2019 – present	Jithin Kurian, M.P.H. candidate
2019 – 2021	Srikar Ranga, M.P.H. candidate
2019 – 2021	Niat Tekle, M.P.H. candidate
2020 – 2021	Juliana Wu, M.P.H. candidate
2020 – 2021	Jennifer Wang, M.P.H. candidate
2020 – 2021	Crystal Guo, M.P.H. candidate
2020 – 2022	Ty Jones, M.P.H. candidate
2020 – 2024	Nick Labate, M.P.H. candidate
2020 – 2021	Amna Ullah, M.P.H. candidate
2021 – 2023	Tiffany Ewere, M.P.H. candidate
2021 – present	Gabriel Mejia, M.P.H. candidate
2021 – present	Victoria Paige, M.P.H. candidate
2022 – 2023	Priyanka Bhardwaj, M.P.H. candidate
2022 – 2023	Aniyah Zaman, M.P.H. candidate
2022 – 2023	Aneesa Khan, M.P.H. candidate
2022 – 2024	Yogitha Koneru, M.P.H. candidate
2023 - present	Meghna Lama
2023 - present	Maggie-Kamholz
2023 – present	Jalaparthi, Hema Sarvani
2023 – present	Bentley, Shaila
2023 – present	Bandrey, Dhawal Sanjay

2024 – present Carreon Garcia, Melissa
2024 – present Akpan, Ndifreke
2024 – present Dandamudi, Neeharika

Advisory Committee Member, M.P.H. Students:

2006 – 2007 Karon Cassidy, M.P.H candidate, Department of Management, Policy and Community Health
2006 – 2008 Monica Clark, M.P.H. candidate, Department of Environmental Sciences
2006 – 2009 Andrea Yu Chan, M.P.H. candidate, Department of Management, Policy and Community Health
2007 Betsy Goldstein, M.P.H. candidate, Department of Management, Policy and Community Health
2007 Hatem Saqr, M.P.H. candidate, Department of Management, Policy and Community Health
2008 – 2010 Tiffany Dean, M.P.H. candidate, Department of Environmental Sciences
2008 – 2010 Tal Ben-Galim, M.P.H. candidate, Department of Health Promotion and Behavioral Sciences
2009 Melody Hernandez, M.P.H. candidate, Department of Environmental Sciences
2009 –2010 Azy Zangeneh, M.P.H. candidate, Department of Health Promotion and Behavioral Sciences
2010 Anirban Battacharyya, M.P.H. candidate, Department of Biostatistics
2012 Devsmita Das, M.P.H. candidate, Department of Epidemiology
2013 Abayomi Ogunwale, M.P.H. candidate, Department of Epidemiology
2021 - 2022 Donovan Calvert, M.P.H. candidate, Department of Epidemiology
2022 Sheikh F. Zaman, M.P.H. candidate, Department of Epidemiology

Advisory Committee Member, Ph.D. Students:
2008 Hatem Saqr, Ph.D. candidate, Department of Management, Policy and Community Health
2008 - 2009 E. Susan Amirian, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health
2009 – 2010 A.J. Agopian, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health
2009 – 2011 Yu-Jing Huang, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health
2011 – 2012 Michelle Mekky, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health
2012 – 2017 Chi Nguyen, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health
2014 – 2017 Shailesh Advani, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health
2016 Xerxes Nozer Pundole, Ph.D. candidate, Department of Epidemiology,

University of Texas School of Public Health

2019 - 2021 Hiba Zwiya, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health

2019 - 2020 Yunju Yang, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health

2020 - 2021 Sepideh Saroukhani, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health

2022 – present Julie Hahn, Ph.D. candidate, Department of Epidemiology, University of Texas School of Public Health

M.D. ANDERSON UTHealth GRADUATE SCHOOL of BIOMEDICAL SCIENCES ADVISORY COMMITTEES:

Advisory Committee Member, M.S. Students:

2010 Sarah Tudor, M.S. candidate in Biomedical Sciences, M.D. Anderson University of Texas Health Science Center at Houston Graduate School of Biomedical Sciences

Examining Committee Member, Ph.D. Students:

2007 Examining Committee Member for Catie Spellicy, Ph.D. candidate in Biomedical Sciences, M.D. Anderson University of Texas Health Science Center at Houston Graduate School of Biomedical Sciences

Advisory Committee Member, Ph.D. Students:

2008 – 2011 Qian Liu, Ph.D. candidate in Biomedical Sciences, M.D. Anderson University of Texas Health Science Center at Houston Graduate School of Biomedical 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 - 2021 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 - 2023 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)

2024 Co-Coordinator, Epidemiologic Proposal Development (Course PHD 2720)

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”

Neurepiomics 2023, San Antonio: “Studying Cognitive Function in Cohort Studies”

TEXAS MEDICAL CENTER COMMITTEES:

2010 - 2022 Baylor College of Medicine Alumni Association Executive Committee