

CURRICULUM VITAE

Donna K. Arnett, Ph.D., M.S.P.H., B.S.N.**Contact Information**

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Education

1981 B.S.N. College of Nursing, University of South Florida, Tampa, FL

1987 M.S.P.H. Biostatistics and Epidemiology, College of Public Health, University of South Florida, Tampa, FL

1992 Ph.D. Epidemiology, School of Public Health, University of North Carolina, School of Public Health, Chapel Hill, NC

Professional Experience

1992 - 1994 American Heart Association Postdoctoral Fellow
Department of Epidemiology
School of Public Health
University of North Carolina

1994 - 1998 Assistant Professor of Epidemiology
Division of Epidemiology
School of Public Health
University of Minnesota

1998 - 2003 Associate Professor of Epidemiology
Division of Epidemiology
School of Public Health
University of Minnesota

2003 - 2004 Professor of Epidemiology
Division of Epidemiology
School of Public Health
University of Minnesota

2004 - 2015 Chair and Professor of Epidemiology
Department of Epidemiology
School of Public Health
University of Alabama at Birmingham

2014 - 2015	Associate Dean for Academics and Strategic Programs School of Public Health University of Alabama at Birmingham
2014 - 2015	Dean and Professor College of Public Health
2016 - Present	University of Kentucky

Societies and Organizations

1990 - Present	American Heart Association, Council on Epidemiology and Prevention
1992 - 2013	Society for Epidemiologic Research
1992 - 1994	American Public Health Association
1996 - Present	The American Society of Human Genetics
1998 - Present	International Genetic Epidemiology Society
2002 - 2008	American Society of Hypertension
2004 - 2015	Senior Scientist, UAB Comprehensive Cancer Center
2004 - 2015	Senior Scientist, UAB Clinical Nutrition Research Center
2005 - 2015	Internal Advisor, UAB Center for AIDS Research
2008 - 2015	Scientist, UAB Center for Study of Community Health

Awards and Honors

1981	Graduated magna cum laude
1987	Outstanding Student Faculty Scholarship, College of Public Health, Department of Epidemiology, University of South Florida
1988 - 1991	U.S. Public Health Service Traineeship Award, University of North Carolina, Chapel Hill
1989	Alumni Student Faculty Award for Outstanding Service, School of Public Health, University of North Carolina
1990	Biomedical Research Service Award, University of North Carolina
1992	Delta Omega, Honor Society for Public Health, Theta Chapter
1998	Fellow, American Heart Association, Council on Epidemiology and Prevention
2000	Finalist, Roger Williams Award, American Heart Association, Council on Epidemiology and Prevention
2003 - 2004	Mayo Professor of Public Health (Endowed Chair)
2004	Award of Meritorious Achievement of the American Heart Association
2006	Fellow, Executive Leadership in Academic Medicine
2008	Distinguished Faculty Investigator, UAB School of Public Health
2008	Fellow (elected), American Epidemiological Society
2009	Fellow, American College of Epidemiology
2009	Outstanding Woman Faculty Member, University of Alabama at Birmingham
2010	Delegate, Vision 2020 (a national project focused on advancing gender equality)
2010	American Heart Association Distinguished Achievement Award, Council on Functional Genomics and Translational Biology

2010	H.A. Tyroler Distinguished Alumni Award, University of North Carolina at Chapel Hill, Department of Epidemiology, School of Public Health
2014	Graduate School Dean's Award for Excellence in Mentorship, University of Alabama at Birmingham

Professional Service

Service to Local, State and Regional Committees

1992 - 1994	American Heart Association, Florida Affiliate, Community Programs Committee Chair
1993	American Heart Association, Florida Affiliate, Research Peer Review Committee
1994	Institutional Review Board, JAEB Center for Health Research, Inc.
1996	Community Blood Pressure Screening, Pillsbury House
1998	American Heart Association, Minnesota Grassroots Network
1999 - 2002	American Heart Association Affiliate Behavioral Science, Epidemiology and Prevention Research Committee
2001	The Minnesota Cardiovascular Health Initiative
2005	American Heart Association, Southeast Affiliate Board of Directors
2006 - Present	American Heart Association, Greater Southeast Board of Directors
2008 - Present	American Heart Association, Birmingham Board of Directors
2009 - 2010	American Heart Association, Vice President, Greater Southeast Affiliate
2010 - 2012	American Heart Association, President, Greater Southeast Affiliate
2012 - 2013	American Heart Association, Immediate Past President, Greater Southeast Affiliate

Service to National Committees (American Heart Association)

1996 - 1999	American Heart Association Council on Epidemiology and Prevention, Long Range Planning Committee
1997 - 1999	American Heart Association Executive Committee, Epidemiology and Prevention Council
1997 - 2001	American Heart Association Task Force on Council and Affiliate Relations
1997 - 2007	Faculty, American Heart Association's Ten-Day Seminar on the Epidemiology and Prevention of Cardiovascular Diseases, Tahoe City, CA
1998 - 2004	Member and Chair (2002-04), American Heart Association Council on Epidemiology and Prevention, Program Committee
1998 - 2001	Member and Chair (2000-01), American Heart Association Behavioral Science, Epidemiology and Prevention Research Committee
1999 - 2002	Member, American Heart Association Council on Epidemiology and Prevention, Working Group on the Council on Epidemiology and Prevention in the 21st Century
2000 - 2001	Member, American Heart Association Expert Panel on Translational

Genomics

2001	Member, American Heart Association Science Classification Task Force
2002 - 2003	Member, American Heart Association Distinguished Fellows Task Force
2002 - 2006	Chair, American Heart Association Functional Genomics Interdisciplinary Working Group
2003 - 2005	Member, American Heart Association Committee of Scientific Sessions Program (CSSP)
2003 - 2007	Member, Council on Epidemiology and Prevention Leadership Committee
2003 - 2014	Scientific Advisory Coordinating Committee (SACC)
2003 - 2004	Chair, 2nd International Conference on Women and Cardiovascular Disease Program Committee
2004 - 2005	Member, American Heart Association Council Operations Committee
2006 - 2010	Member, American Heart Association Expert Panel on Subclinical Atherosclerotic Disease and Emerging Risk Factors (EP/SAD/ERF)
2006 - 2009	Member and Chair (2007-09), American Heart Association, National Research Committee
2007 - 2014	Member, American Heart Association National Board of Directors
2008 - 2010	Member, American Heart Association, Strategic Planning Committee
2008 - 2011	Member and Chair (2009-2011), American Heart Association, Scientific Publishing Committee
2008 - 2010	Member, American Heart Association, 2020 Impact Goal Task Force
2011 - 2012	President-Elect, American Heart Association
2012 - 2013	President, American Heart Association
2012 - 2014	Chair, Mission Metrics Task Force, American Heart Association
2013- 2014	Immediate Past President, American Heart Association
2014 -present	Chair, Worksite Wellness Conference Committee, American Heart Association
2014- present	Member, International Committee, American Heart Association

Service to National Committees (Other non-government)

2007	World Congress on Heart Disease 2007 - Scientific Advisory Board of the International Academy of Cardiology and the World Congress on Heart Disease 2007
2009-2012	Board of Directors, American College of Epidemiology
2010-present	Executive Leadership in Academic Medicine Admissions Review Committee

Service to National Committees (Government)

1994 - 2004	Food and Drug Administration Special Government Employee
1995	National Institutes of Aging, Panel for Concept Clearance for Program Project on Arterial Stiffness
1995	National Institutes of Aging Special Emphasis Panel on Arterial Stiffness

1995	National Heart, Lung, and Blood Institute, Planning Committee, Conference on Electrocardiography in Epidemiologic Studies
1996 - 1997	National Heart, Lung, and Blood Institute, Planning Committee, Conference on Electrocardiography in Epidemiologic Studies
1997 - 1998	National Heart, Lung, and Blood Institute Training Grant Reviewer
1997 - 2000	National Heart, Lung, and Blood Institute, Program Project Reviewer (numerous PPGs)
1998	National Heart, Lung, and Blood Institute Workshop: Genetic Basis of Variability in the Progression and Outcome of Heart, Lung, and Blood Diseases, Special Emphasis Panel
2001 - 2002	National Heart, Lung, and Blood Institute Task Force on Research in Prevention of Cardiovascular Disease
2002 - 2008	National Institutes of Health, Cardiovascular and Sleep Epidemiology (CASE) Study Section (formerly Epidemiology & Disease Control), Chartered Member
2006 - 2008	Chair, National Institutes of Health, CASE Study Section
2005	NHLBI Strategic Planning Committee
2005 - 2010	Member, External Advisory Panel, NIGMS Pharmacogenomics Research Network
2006 - 2012	Member, NHLBI AIM HIGH, Data Safety and Monitoring Board
2007 - 2011	Chair, NHLBI Genetics Advisory Group, BARI2D Trial
2008 - 2012	Member, Evaluation of Genomic Applications in Practice and Prevention (EGAPP)
2010	Chair, CASE Study Section Member Conflicts Study Section
2010 - present	NIH Center for Scientific Review College of Reviewers
2014 - present	DHHS, Medicare Evidence Development and Coverage Advisory Committee (MEDCAC), Voting Member
2016	NHLBI, Search Committee, Director of the Division of Cardiovascular Diseases, Member
2017 - present	NHLBI, Council of Scientific Advisors, Member

Grant and Contract Support

<i>Title</i>	HyperGEN: Genetics of Left Ventricular Hypertrophy
<i>Funding source/type</i>	NIH/NHLBI 2 R01 HL55673
<i>Summary</i>	This project extends the genetic analysis of previously collected hypertension pedigrees with echocardiographic measures. We are conducting an exome sequencing study identify rare variants contributing to variation in cardiac size and structure and testing functionality of these variants in iPSC derived cardiomyocytes.
<i>Period</i>	08/01/95 - 06/30/17
<i>Role</i>	Principal Investigator
<i>Title</i>	Genomewide Association: Triglyceride Response to Fenofibrate

<i>Funding source/type</i>	Therapy and Dietary Fat NIH/NHLBI 1R01 HL091357
<i>Summary</i>	This study identifies genetic variants that influence fat and cholesterol's response to diet and drugs.
<i>Period</i>	09/05/2008 – 07/31/2012 (NCE) (Renewal pending: 3 rd percentile)
<i>Role</i>	Principal Investigator
<i>Period</i>	9/25/09 – 7/31/2019
<i>Role</i>	Co-Investigator
<i>Title</i>	Epigenetic Determinants of Lipids Response to Dietary Fat and Fenofibrate
<i>Funding source/type</i>	NIH R01 HL104135
<i>Summary</i>	Identify epigenetic loci that determine gene-environment interactions that predict TG response to two interventions, one to raise TGs (intake of a high-fat meal), and one to lower TGs (treatment with fenofibrate).
<i>Period</i>	08/15/10 – 05/31/17 (NCE)
<i>Role</i>	Principal Investigator
<i>Title</i>	Genome-Wide Association Studies: Using Integrated CNV and SNP Information
<i>Funding source/type</i>	NIH, University of Pennsylvania Consortium
<i>Summary</i>	This research aims to develop novel ways to integrate single-nucleotide polymorphism and copy number variation data in genome-wide association studies.
<i>Period</i>	04/01/2010 – 03/31/2014
<i>Role</i>	Co-Investigator
<i>Title</i>	The NINDS International Stroke Genetics Consortium Study
<i>Funding source/type</i>	NIH
<i>Summary</i>	The major goal of the GWAS is to research the genetics of stroke, identify genes that influence stroke risk and contribute to de-identified phenotype and genetic data.
<i>Period</i>	07/2010 – present
<i>Role</i>	Principal Investigator of Subcontract
<i>Title</i>	Functional Association Study for LVH Using iPS-Derived Cardiomyocytes: The HyperGEN CiPS Study
<i>Funding source/type</i>	NIH
<i>Summary</i>	This study uses a cell model to investigate the genetic basis of left ventricular hypertrophy in the HyperGEN participants
<i>Period</i>	07/2011 – 03/17
<i>Role</i>	Co-Investigator
<i>Title</i>	Study of Cardiac Mechanisms in Systematic Hypertension
<i>Funding source/type</i>	NIH-Northwestern University
<i>Summary</i>	This study is re-measuring novel diastolic echocardiographic traits

	in the HyperGEN study and assessing association with clinical and genomic data previously collected.
<i>Period</i>	04/2011 - 03/2019
<i>Role</i>	Subproject Principal Investigator (Primary PI, Sanjiv Shah, MD)
<i>Title</i>	Prospective Meta-analyses of drug-gene interactions: CHARGE GWAS Consortium
<i>Funding source/type</i>	NIH
<i>Summary</i>	The benefits of modern drug therapies can be maximized by avoiding some medications in patients who are genetically susceptible to adverse reactions or by selecting other medications for patients who are genetically likely to benefit. This broad-based discovery effort may help to illuminate biologic mechanisms, affect how some drugs are prescribed, or identify novel targets for new therapies.
<i>Period</i>	07/1/2011 - 06/30/2015 (NCE)
<i>Role</i>	Co-Investigator

Completed Research

<i>Title</i>	Multidisciplinary Clinical Research Center: Project 1, Genetic and Molecular Markers of Methotrexate Efficacy and Toxicity in Early RA
<i>Funding source/type</i>	NIH/NIAMS P60 AR48095
<i>Summary</i>	This study evaluates the genetic determinants of efficacy and toxicity of methotrexate in early, aggressive rheumatoid arthritis.
<i>Period</i>	09/01/08 - 06/30/13
<i>Role</i>	Principal Investigator, Project 1
<i>Title</i>	FHS: Molecular Genetics and Genetic Epidemiology MN
<i>Funding source/type</i>	NIH/NHLBI, 2 R01 HL56567
<i>Summary</i>	This extended the genome-wide analysis for NHLBI FHS conducted during the initial funding period.
<i>Period</i>	10/23/01 - 8/31/04
<i>Role</i>	Principal Investigator
<i>Title</i>	Training Grant in CVD Genetic Epidemiology
<i>Funding source/type</i>	NIH/NHLBI, 1 T32 HL07972
<i>Summary</i>	This proposal funded 3 pre-doctoral and 1 post-doctoral trainees in CVD genetic epidemiology at the University of Minnesota
<i>Period</i>	7/16/01 - 7/15/06
<i>Role</i>	Principal Investigator
<i>Title</i>	Community Surveillance of Cardiovascular Disease -- Risk Factor Survey (MHS)
<i>Funding source/type</i>	NIH/NHLBI 5 R01 HL23727
<i>Summary</i>	A survey of 5,000 adults, ages 25-74 years, and children ages 8-17 years was conducted using methodology identical to prior MHS surveys done in 1980-82, 1985-87, 1990-92, and 1995-97.

<i>Period</i>	3/01/00 - 2/28/04
<i>Role</i>	Principal Investigator
<i>Title</i>	FHS SCAN
<i>Funding source/type</i>	NIH/NHLBI, 1 U01 HL67901
<i>Summary</i>	As an extension of the NHLBI Family Heart Study, we re-recruited participants and characterized coronary calcification and inflammatory markers. The goal was to identify genomic regions contributing to inter-individual variation in these traits.
<i>Period</i>	7/1/01 - 6/30/08
<i>Role</i>	Co-Investigator
<i>Title</i>	MESA Family Study
<i>Funding source/type</i>	NIH/NHLBI, 1 R01 HL071251-01
<i>Summary</i>	The goal of this study was to determine the extent of genetic contribution to variation in coronary calcium (EBCT and CT scan) and carotid artery wall thickness (B-mode ultrasound) in non-majority populations.
<i>Period</i>	8/1/03 - 6/30/08
<i>Role</i>	Co-Principal Investigator (PI at UMN before locating to UAB)
<i>Title</i>	Calcineurin Gene Polymorphisms, Serum Calcineurin, and LVH
<i>Funding source/type</i>	NIH/NHLBI University of Minnesota Consortium PA-06-181
<i>Summary</i>	To evaluate the utility of serum calcineurin protein and enzymatic activity as biomarkers for LVH at the population level and to identify variants in genes involved in the calcineurin pathway that contribute to the risk of LVH.
<i>Period</i>	09/29/2008 - 05/31/10
<i>Role</i>	Co-investigator
<i>Title</i>	Genetics of Hypertension Risk Factors and Sequela in African Americans
<i>Funding source/type</i>	NIH University of Michigan Consortium 1RC1HL100245
<i>Summary</i>	To investigate the characteristics of population genetics (Single nucleotide polymorphisms and copy number variations), and conduct genome-wide association analyses of hypertension risk factors and sequela in African American populations.
<i>Period</i>	09/30/2009-07/31/2011
<i>Role</i>	Co-investigator
<i>Title</i>	Genetic and Environmental Determinants of Triglycerides
<i>Funding source/type</i>	NIH/NHLBI, U 01 HL72524
<i>Summary</i>	This study characterized the genetic basis of the variable response of triglycerides (TGs) to two environmental contexts, one that raised TGs (dietary fat), and one that lowered TGs (fenofibrate treatment).
<i>Period</i>	09/30/02 - 5/31/10
<i>Role</i>	Principal Investigator
<i>Title</i>	GenHAT - Genetics of Hypertension Associated Treatments

<i>Funding source/type</i>	NIH/NHLBI 5 R01 HL63082
<i>Summary</i>	Ancillary to the Antihypertension and Lipid Lowering Treatment to Prevent Heart Attack Trial (ALLHAT), we investigated whether common polymorphisms of several hypertension candidate genes modify the effect of antihypertensives on long-term outcomes, including mortality, coronary heart disease and stroke in the first R01, and added multiple genes in a case-only design to test drug-gene interactions with long-term outcomes.
<i>Period</i>	09/01/99 – 05/31/11
<i>Role</i>	Principal Investigator
<i>Title</i>	Genome Wide Haplotype Association Analysis
<i>Funding source/type</i>	NIH/NIGMS R01GM081488
<i>Summary</i>	We developed novel statistical and computational methods and software tools for the analysis of haplotypes in mapping of complex human disease genes.
<i>Period</i>	04/01/08 – 03/31/13
<i>Role</i>	Co-Investigator

Senior & Co-authored Articles (from 515 total)

1. Sherva R, Miller MB, Pankow JS, Hunt SC, Boerwinkle E, Mosley TH, Weder AB, Curb JD, Luke A, Morrison AC, Fornage M, **Arnett DK**. A whole-genome scan for stroke or myocardial infarction in family blood pressure program families. *Stroke*. 2008;39:1115-1120. PMID18323513.
2. Bielinski SJ, Pankow JS, Li N, Hsu FC, Adar SD, Jenny NS, Bowden DW, Wasserman BA, **Arnett D**. ICAM1 and VCAM1 polymorphisms, coronary artery calcium, and circulating levels of soluble ICAM-1: the multi-ethnic study of atherosclerosis (MESA). *Atherosclerosis*. 2008;201:339-344. PMID18420209. PMC2615541.
3. Shen J, **Arnett DK**, Perez-Martinez P, Parnell LD, Lai CQ, Peacock JM, Hixson JE, Tsai MY, Straka RJ, Hopkins PN, Ordovas JM. The effect of IL6-174C/G polymorphism on postprandial triglyceride metabolism in the GOLDN studyboxes. *J Lipid Res*. 2008;49:1839-1845. PMID18420533. PMC2444004.
4. Limdi NA, **Arnett DK**, Goldstein JA, Beasley TM, McGwin G, Adler BK, Acton RT. Influence of CYP2C9 and VKORC1 on warfarin dose, anticoagulation attainment and maintenance among European-Americans and African-Americans. *Pharmacogenomics*. 2008;9:511-526. PMID18466099. PMC2757655.
5. Liu Y, Ordovas JM, Gao G, Province M, Straka RJ, Tsai MY, Lai CQ, Zhang K, Borecki I, Hixson JE, Allison DB, **Arnett DK**. The SCARB1 gene is associated with lipid response to dietary and pharmacological interventions. *J Hum Genet*. 2008;53:709-717. PMID18542840.
6. Huang P, Kraja AT, Tang W, Hunt SC, North KE, Lewis CE, Devereux RB, de Simone G, **Arnett DK**, Rice T, Rao DC. Factor relationships of metabolic syndrome and echocardiographic phenotypes in the HyperGEN study. *J Hypertens*. 2008;26:1360-1366. PMID18551011. PMC2663576.

7. Maitland-van der Zee AH, Lynch A, Boerwinkle E, **Arnett DK**, Davis BR, Leiendecker-Foster C, Ford CE, Eckfeldt JH. Interactions between the single nucleotide polymorphisms in the homocysteine pathway (MTHFR 677C>T, MTHFR 1298 A>C, and CBSins) and the efficacy of HMG-CoA reductase inhibitors in preventing cardiovascular disease in high-risk patients of hypertension: the GenHAT study. *Pharmacogenet Genomics*. 2008;18:651-656. PMID18622257. PMC2729516.
8. Kabagambe EK, Ordovas JM, Tsai MY, Borecki IB, Hopkins PN, Glasser SP, **Arnett DK**. Smoking, inflammatory patterns and postprandial hypertriglyceridemia. *Atherosclerosis*. 2009;203:633-639. PMID18804210. PMC2663015.
9. Limdi NA, Beasley TM, Crowley MR, Goldstein JA, Rieder MJ, Flockhart DA, **Arnett DK**, Acton RT, Liu N. VKORC1 polymorphisms, haplotypes and haplotype groups on warfarin dose among African-Americans and European-Americans. *Pharmacogenomics*. 2008;9:1445-1458. PMID18855533. PMC2586955.
10. Kraja AT, Huang P, Tang W, Hunt SC, North KE, Lewis CE, Devereux RB, de Simone G, **Arnett DK**, Rice T, Rao DC. QTLs of factors of the metabolic syndrome and echocardiographic phenotypes: the hypertension genetic epidemiology network study. *BMC Med Genet*. 2008;9:103. PMID19038053. PMC2626585.
11. Perez-Martinez P, Corella D, Shen J, **Arnett DK**, Yiannakouris N, Tai ES, Orho-Melander M, Tucker KL, Tsai M, Straka RJ, Province M, Kai CS, Perez-Jimenez F, Lai CQ, Lopez-Miranda J, Guillen M, Parnell LD, Borecki I, Kathiresan S, Ordovas JM. Association between glucokinase regulatory protein (GCKR) and apolipoprotein A5 (APOA5) gene polymorphisms and triacylglycerol concentrations in fasting, postprandial, and fenofibrate-treated states. *Am J Clin Nutr*. 2009;89:391-399. PMID19056598. PMC2647710.
12. Liu Y, Ordovas JM, Gao G, Province M, Straka RJ, Tsai MY, Lai CQ, Zhang K, Borecki I, Hixson JE, Allison DB, **Arnett DK**. Pharmacogenetic association of the APOA1/C3/A4/A5 gene cluster and lipid responses to fenofibrate: the genetics of lipid-lowering drugs and diet network study. *Pharmacogenet Genomics*. 2009;19:161-169. PMID19057464. PMC2733171.
13. Lynch AI, Claas SA, **Arnett DK**. A review of the role of atrial natriuretic peptide gene polymorphisms in hypertension and its sequelae. *Curr Hypertens Rep*. 2009;11:35-42. PMID19146799.
14. Junyent M, **Arnett DK**, Tsai MY, Kabagambe EK, Straka RJ, Province M, An P, Lai CQ, Parnell LD, Shen J, Lee YC, Borecki I, Ordovas JM. Genetic variants at the PDZ-interacting domain of the scavenger receptor class B type I interact with diet to influence the risk of metabolic syndrome in obese men and women. *J Nutr*. 2009;139:842-848. PMID19321583. PMC2714388.
15. Lynch AI, Boerwinkle E, Davis BR, Ford CE, Eckfeldt JH, Leiendecker-Foster C, **Arnett DK**. Antihypertensive pharmacogenetic effect of fibrinogen-beta variant -455G>A on cardiovascular disease, end-stage renal disease, and mortality: the GenHAT study. *Pharmacogenet Genomics*. 2009;19:415-421. PMID19352213. PMC2764310.
16. Junyent M, Lee YC, Smith CE, **Arnett DK**, Tsai MY, Kabagambe EK, Straka RJ, Province
17. Rasmussen-Torvik LJ, Pankow JS, Peacock JM, Borecki IB, Hixson JE, Tsai MY, Kabagambe EK, **Arnett DK**. Suggestion for linkage of chromosome 1p35.2 and 3q28 to plasma adiponectin concentrations in the GOLDN Study. *BMC Med Genet*. 2009;10:39. PMID19426517. PMC2691741.
18. Tang W, Devereux RB, Li N, Oberman A, Kitzman DW, Rao DC, Hopkins PN, Claas SA, **Arnett DK**. Identification of a pleiotropic locus on chromosome 7q for a composite left

- ventricular wall thickness factor and body mass index: the HyperGEN Study. *BMC Med Genet.* 2009;10:40. PMID19426520. PMC2692848.
19. **Arnett DK**, Li N, Tang W, Rao DC, Devereux RB, Claas SA, Kraemer R, Broeckel U. Genome-wide association study identifies single-nucleotide polymorphism in KCNB1 associated with left ventricular mass in humans: the HyperGEN Study. *BMC Med Genet.* 2009;10:43. PMID19454037. PMC2692849.
 20. **Arnett DK**, Claas SA, Lynch AI. Has pharmacogenetics brought us closer to 'personalized medicine' for initial drug treatment of hypertension? *Curr Opin Cardiol.* 2009;24:333-339. PMID19509486.
 21. Ekundayo OJ, Howard VJ, Safford MM, McClure LA, **Arnett D**, Allman RM, Howard G, Ahmed A. Value of orthopnea, paroxysmal nocturnal dyspnea, and medications in prospective population studies of incident heart failure. *Am J Cardiol.* 2009;104:259-264. PMID19576357. PMC2787196.
 22. Vasan RS, Glazer NL, Felix JF, Lieb W, Wild PS, Felix SB, Watzinger N, Larson MG, Smith NL, Dehghan A, Grosshennig A, Schillert A, Teumer A, Schmidt R, Kathiresan S, Lumley T, Aulchenko YS, Konig IR, Zeller T, Homuth G, Struchalin M, Aragam J, Bis JC, Rivadeneira F, Erdmann J, Schnabel RB, Dorr M, Zweiker R, Lind L, Rodeheffer RJ, Greiser KH, Levy D, Haritunians T, Deckers JW, Stritzke J, Lackner KJ, Volker U, Ingelsson E, Kullo I, Haerting J, O'Donnell CJ, Heckbert SR, Stricker BH, Ziegler A, Reffellmann T, Redfield MM, Werdan K, Mitchell GF, Rice K, **Arnett DK**, Hofman A, Gottdiener JS, Uitterlinden AG, Meitinger T, Blettner M, Friedrich N, Wang TJ, Psaty BM, van Duijn CM, Wichmann HE, Munzel TF, Kroemer HK, Benjamin EJ, Rotter JI, Witteman JC, Schunkert H, Schmidt H, Volzke H, Blankenberg S. Genetic variants associated with cardiac structure and function: a meta-analysis and replication of genome-wide association data. *JAMA.* 2009;302:168-178. PMID19584346. PMC2975567.
 23. **Arnett DK**, Devereux RB, Rao DC, Li N, Tang W, Kraemer R, Claas SA, Leon JM, Broeckel U. Novel genetic variants contributing to left ventricular hypertrophy: the HyperGEN study. *J Hypertens.* 2009;27:1585-1593. PMID19593212. PMC2868312.
 24. **Arnett DK**, Claas SA. Pharmacogenetics of antihypertensive treatment: detailing disciplinary dissonance. *Pharmacogenomics.* 2009;10:1295-1307. PMID19663674.
 25. Kabagambe EK, Glasser SP, Ordovas JM, Warodomwicht D, Tsai MY, Hopkins PN, Borecki IB, Wojczynski M, **Arnett DK**. TCF7L2 polymorphisms and inflammatory markers before and after treatment with fenofibrate. *Diabetol Metab Syndr.* 2009;1:16. PMID19825152. PMC2766367.
 26. Glasser SP, Wojczynski MK, Oberman AI, Kabagambe EK, Tsai MY, Ordovas JM, Straka RJ, **Arnett DK**. Comparison of postprandial responses to a high-fat meal in hypertriglyceridemic men and women before and after treatment with fenofibrate in the Genetics of Lipid Lowering Drugs and Diet Network (GOLDN) Study. *SRX Pharmacol.* 2010:Article ID 485146. PMID Not assigned.
 27. Shrestha S, Irvin MR, Taylor KD, Wiener HW, Pajewski NM, Haritunians T, Delaney JA, Schambelan M, Polak JF, **Arnett DK**, Chen YD, Grunfeld C. A genome-wide association study of carotid atherosclerosis in HIV-infected men. *AIDS.* 2010;24:583-592. PMID20009918. PMC3072760.
 28. **Arnett DK**. Preparing effective grant applications. *Circulation.* 2009;120:2607-2612. PMID20026793.
 29. Wassel CL, Pankow JS, Peralta CA, Choudhry S, Seldin MF, **Arnett DK**. Genetic ancestry is associated with subclinical cardiovascular disease in African-Americans and

- Hispanics from the multi-ethnic study of atherosclerosis. *Circ Cardiovasc Genet*. 2009;2:629-636. PMID20031644. PMC2795643.
30. Lloyd-Jones DM, Hong Y, Labarthe D, Mozaffarian D, Appel LJ, Van Horn L, Greenlund K, Daniels S, Nichol G, Tomaselli GF, **Arnett DK**, Fonarow GC, Ho PM, Lauer MS, Masoudi FA, Robertson RM, Roger V, Schwamm LH, Sorlie P, Yancy CW, Rosamond WD. Defining and setting national goals for cardiovascular health promotion and disease reduction: the American Heart Association's strategic Impact Goal through 2020 and beyond. *Circulation*. 2010;121:586-613. PMID20089546.
 31. Tsai MY, Ordovas JM, Li N, Straka RJ, Hanson NQ, Arends VL, **Arnett D**. Effect of fenofibrate therapy and ABCA1 polymorphisms on high-density lipoprotein subclasses in the Genetics of Lipid Lowering Drugs and Diet Network. *Mol Genet Metab*. 2010;100:118-122. PMID20346718.
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Edited Volumes

1. *Prevention of Cardiovascular Diseases: From current evidence to clinical practice*. Andrade J, Pinto F, Arnett DK (eds.) Springer, English Edition In Press.
2. *Cardiovascular Genetics and Genomics in Clinical Practice*. Shah SJ, **Arnett DK** (eds.) Demos Medical, 2015.

Pre- and Post-Doctoral Trainees

Trainee	Training Period	Current Position of Trainee
<i>Pre-doctoral</i>		
Peacock, J	1998-03	Epidemiologist, MN Department of Health
Tang, W	1997-02	Assistant Professor, University of MN
Bielinski, S	2003-05	Assistant Professor, Mayo Clinic
Lynch, A	2002-05	Research Associate, University of Alabama at Birmingham
Sherva, R	2003-06	Assistant Professor, Boston University
Potter, D	2002-05	Centre for Infectious Diseases in Zambia
Meggazini, K	2006-07	Scientist, Westat
Sahasrabudde, V	2003-06	Assistant Professor, Institute for Global Health, Vanderbilt University
Xiao, Y	2005-06	CDC of China
Cantrell, R	2004-08	Research Scientist, Epidemiology Center of Excellence within Global Health Outcomes within Lilly Research Laboratories
Jenkins, T	2004-08	Assistant Professor, Division of Pediatric General and Thoracic Surgery, Cincinnati Children's Hospital Medical Center
Limdi, N	2005-07	Associate Professor, University of Alabama at Birmingham
<i>Post-doctoral</i>		
Nunez, E	1999-03	CUORE International, Director of Epidemiology and Statistical Services
Liu, Y	2003-05	Associate Professor, Tulane University
Wojczynski, M	2006-09	Instructor, Washington University in St Louis
Dickson, M	2008-11	Assistant Professor, University of Alabama at Birmingham
Wood, A	2009-13	Assistant Professor, University of Texas
Aslibekyan, S	2011-13	Assistant Professor, University of Alabama at Birmingham
Hidalgo, B	2013-14	Assistant, University of Alabama at Birmingham

Selected Invited Lectures & Presentations

2013	American Stroke Association Presidential Address, Honolulu. "Transforming cardiovascular and brain health through genes and environment."
2013	"Evolving Guidelines and Renal Sympathetic Denervation: From Population Salt Reduction to Personalized Treatment Targets." American College of Cardiology, San Francisco
2013	"Health Policy and Lifestyle Change." American College of Cardiology, San Francisco
2013	"The Epidemiology of Heart Failure." Japanese Circulation Society
2013	"Genomic and Environmental Determinants of Hypertension and Left Ventricular Hypertrophy." Medical College of Wisconsin, Grand Rounds

- 2013 "Cultivating Leadership Excellence Through Ideal Health and Well-being." Medical College of Wisconsin, 5th Annual Kathy Sheehan Lectureship
- 2013 "The American Heart Association Perspective on Prevention of Cardiovascular Disease." ESC Euro-Prevent, Rome
- 2013 "Pharmacogenetic Factors in Blood Pressure Control" American Society of Hypertension, San Francisco
- 2013 "Pharmacogenetics of Cardiovascular Disease." Centro Nacional de Investigaciones Cardiovasculares, Madrid
- 2013 Congress of the Society of Cardiology of Sao Paulo. "Are there new and different strategies for CVD prevention for the individual and the population?"
- 2013 Congress of the Society of Cardiology of Sao Paulo. "The Guideline Advantage Program."
- 2013 Toronto-Ottawa Heart Summit, Toronto. "Transforming cardiovascular and brain health through genes and environment."
- 2013 "Cardiovascular Pharmacogenomics." Cicerone Workshop for Medical Residents, Madrid, Spain
- 2013 "Genomic and Environmental Determinants of Hypertension and Left Ventricular Hypertrophy" Lois Ellison Lectureship, Georgia Regents University, Augusta, GA
- 2013 "The Genetic Epidemiology of Left Ventricular Hypertrophy: From Population Genetics to Functional Relevance" Tisdale Visiting Professor, University of Vermont School of Medicine, Medical Grand Rounds
- 2013 "Current Status and Challenges to Achieving Goals." American Heart Association, Scientific Sessions, Dallas, TX
- 2013 "Challenges and future of cardiovascular prevention in the world. What is happening after the 'Letter of Rio'?" IV Brasil Prevent & II Latin American Prevent
- 2013 "The American Heart Association's Efforts to Create a Culture of Health." IV Brasil Prevent & II Latin American Prevent
- 2013 "Evolving Guidelines on Hypertension and New Approaches: From Population Salt Reduction to Personalized Treatment Targets?" 45th Annual New York Cardiovascular Symposium, New York, NY
- 2014 "The Genetic Epidemiology of Left Ventricular Hypertrophy: From Population Genetics to Functional Relevance", Wake Forest University School of Medicine, Neurology Grand Rounds
- 2014 "The Future of Pharmacogenetics in Evidenced-Based Cardiovascular Risk Management." NIH Pharmacogenomics Research Network Scientific & Steering Committee Meeting, Orlando, FL
- 2014 "Evolving Guidelines on Hypertension: From Population Salt Reduction to Renal Sympathetic Denervation." American College of Cardiology Annual Scientific Session, Washington DC
- 2014 "Genetics of Antihypertensive Treatment." American Heart Association, Scientific Sessions, Chicago, IL.
- 2014 "Discovering Disease Variation from Genomic Studies in Diverse Populations." American Heart Association, Scientific Sessions, Chicago, IL.
- 2014 "Implications of Pharmacogenomics in Management of Hypertension" American Heart Association, Scientific Sessions, Chicago, IL.
- 2015 "Epigenome-Wide Association Scans of Cardiometabolic Traits" Third Institute of Cardiometabolism and Nutrition Conference Series on Omics, Paris, France

- 2016 “Genomic and Environmental Determinants of Hypertension and Left Ventricular Hypertrophy” University of Kentucky, Medical School Grand Rounds
- 2016 “Precision Medicine, Genomics, and Public Health” Department of Biostatistics Golden Jubilee Seminar Series, Washington University, St Louis.
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