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EDUCATION

- 2011 **Ph.D. Epidemiological Sciences**
University of Michigan
Dissertation Title: "Genetic Architecture of Leukoaraiosis and Cognitive Function"
(with Dr. Sharon L.R. Kardia)
- 2009 **M.A. Statistics**
University of Michigan
- 2005 **M.P.H. Health Management and Policy**
Interdepartmental Concentration in Public Health Genetics
University of Michigan
- 2001 **B.S. Biological Sciences**
Concentration in Genetics
Cornell University

ACADEMIC APPOINTMENTS

**Department of Epidemiology
School of Public Health, University of Michigan**

- 2016-Present Assistant Professor
2015-2016 Research Assistant Professor
2012-2015 Assistant Research Scientist
2011-2012 Research Area Specialist Lead
2004-2010 Graduate Student Research Assistant / Instructor

CENTER AND PROGRAM AFFILIATIONS

- 2015-Present **Principal Investigator**, TOPMed: Trans-Omics for Precision Medicine Program
National Heart, Lung and Blood Institute, National Institutes of Health

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2015-Present	Associated Faculty Member , Center for Midlife Science School of Public Health, University of Michigan, Ann Arbor, MI
2014-Present	Affiliated Scientist , Michigan Center on the Demography of Aging (MiCDA) Institute for Social Research, University of Michigan, Ann Arbor, MI
2014-Present	Affiliated Scientist , Population, Neurodevelopment, and Genetics (PNG) Program Institute for Social Research, University of Michigan, Ann Arbor, MI
2012-Present	Steering Committee Member , Center for Integrative Approaches to Health Disparities School of Public Health, University of Michigan, Ann Arbor, MI
2012-Present	Associated Faculty Member , Certificate Program in Public Health Genetics (CPHG) School of Public Health, University of Michigan, Ann Arbor, MI

RESEARCH GRANTS

Awarded Grants

R01 HL133221 NIH/NHLBI Epigenetics of Arteriosclerosis in African American Hypertensive Sibships	Smith (PI) \$1,636,482 (Total Direct Costs)	07/01/16 – 4/30/20
MCubed Project University of Michigan The Madeline Interface	Smith / Richards / Bohnsack (MPIs) \$60,000 (Total Direct Costs)	11/19/15 – 04/29/17
R03 AG048806 NIH/NIA Interplay of Genetic & Socioeconomic Predictors of Memory Decline in Older Adults	Smith / Faul (MPIs) \$200,000 (Total Direct Costs)	09/30/14 – 05/31/17
R01 HL119443 NIH/NHLBI Genetic Mechanisms of Arteriosclerosis in Hypertensive Sibships	Kardia (PI), Smith (Co-I) \$700,000 (Annual Direct Costs)	09/01/14 – 08/31/18
R01 HL118305 NIH/NHLBI Multi-Ethnic Study of Gene-Lifestyle Interactions in Cardiovascular Traits	Rao (PI), Smith (Co-I) \$2,061,405 (Annual Direct Costs)	12/01/13 – 11/30/18
P60 MD002249 NIH/NIMHD Michigan Center for Integrative Approaches to Health Disparities (CIAHD) Social and Biologic Predictors of Cardiovascular Risk among African Americans (Diez Roux, R01 PI)	Mendes de Leon (PI), Smith (Co-I) \$1,238,326 (Annual Direct Costs)	09/01/12 – 08/31/17
U01 AG009740 NIH/NIA Health and Retirement Study Years 23-28	Weir (PI), Smith (Co-I) \$13,173,570 (Annual Direct Costs)	01/01/11 – 12/31/17

Completed Grants

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R03 AG046389 NIH/NIA Genetic and Psychosocial Predictors of Blood Pressure and Body Mass Index	Kardia (PI), Smith (Co-I) \$200,000 (Total Direct Costs)	09/01/13 – 08/31/16
R01 HL086694 NIH/NHLBI Genome-Wide Association Analysis in Essential Hypertension	Chakravarti (PI), Smith (Co-I)	08/05/11 – 05/30/14
RC4 AG039029 NIH/NIA Expanding a National Resource for Genetic Research in Behavioral and Health Science	Weir (PI), Smith (Co-I)	09/30/10 – 08/31/14
R01 HL101161 NIH/NHLBI Stress, Gene-Environment Interaction and Cardiovascular Disease	Diez Roux/Needham (PI), Smith (Co-I)	06/15/10 – 3/31/15
RC1 HL100185 NIH/NHLBI Epigenetic Predictors of Common Chronic Diseases Role: Research Area Specialist Lead	Kardia (PI)	09/30/09 – 12/31/12
P60 MD002249 NIH/NCMHD Michigan Center for Integrative Approaches to Health Disparities (CIAHD) Genetic and Social Factors in Blood Pressure Control in Hypertensives (R01) Role: Research Area Specialist Lead	Diez Roux (PI)	09/01/07 – 08/31/12
R01 HL087660 NIH/NHLBI Genomic Predictors of Arteriosclerosis in Hypertensives Role: Research Area Specialist Lead	Kardia (PI)	04/01/07 – 03/31/12
R01 NS041558 NIH/NINDS Genetics of Microangiopathic Brain Injury Role: Graduate Student Research Assistant	Turner (PI)	08/05/09 – 07/31/13
U01 HL72524 NIH/NHLBI Genetic and Environmental Determinants of Triglycerides (GOLDN) Role: Graduate Student Research Assistant	Arnett (PI)	09/30/02 – 08/31/06
<i>Pending Grants</i>		
NIH (R25) Genomic Analysis for Social-Behavioral Scientists \$125,000 (Annual Direct Costs)	Faul/Kardia/Mitchell (MPIs)	07/01/16 – 06/30/20
NIH (U01) SWAN Repository IV \$5,759,960 (Total Direct Costs)	Harlow (PI), Smith (Co-I)	09/01/15 – 8/31/20

NIH (X01) Peyser (PI), Smith (Co-I) 09/01/16 – 08/31/17
Genomics of Coronary Artery Calcification Progression: A Multi-Ethnic Consortium
\$0 (Total Direct Costs)

COURSES TAUGHT

Fall, 2012- Present **Instructor**, Genetics in Public Health (EPID 515), Department of Epidemiology, University of Michigan, Ann Arbor, MI
This course provides an in-depth examination of major topics in public health genetics including the fundamentals of population genetics, newborn screening diseases and practices, and the genetics of common chronic diseases. It also introduces topics such as the ethnical/legal/social issues surrounding genetic testing, epigenetics, and genetic association studies.

Winter, 2009 **Graduate Student Instructor**, Genomics in Epidemiology (EPID 516), Department of Epidemiology, University of Michigan, Ann Arbor, MI

Fall, 2008 **Graduate Student Instructor**, Introduction to Epidemiology (EPID 600), Department of Epidemiology, University of Michigan, Ann Arbor, MI

Summer, 2008 **Graduate Student Instructor**, Fundamentals of Biostatistics (EPID 701), Department of Epidemiology, University of Michigan, Ann Arbor, MI

GUEST LECTURES

Mar. 14, 2016 “Overview and modern applications of human genetics, genomics, and beyond,” EPID 582: *Molecular Epidemiology*, University of Michigan, Ann Arbor, MI

Nov. 22, 2013 “Epigenetics, gene-by-environment Interactions, and social epidemiology,” EPID 514: *Social Epidemiology*, University of Michigan, Ann Arbor, MI

Jun 14, 2010 “Genetics in nursing,” Nursing 334: *Health Promotion and Risk Reduction for Individuals and Families*, University of Michigan, Ann Arbor, MI

Nov. 24, 2009 “Internet resources for genetic epidemiology,” EPID 516: *Genomics in Epidemiology*, University of Michigan, Ann Arbor, MI

Jun 24, 2008 “Genetics in nursing,” Nursing 334: *Health Promotion and Risk Reduction for Individuals and Families*, University of Michigan, Ann Arbor, MI

Nov. 28, 2007 “Epidemiology of colorectal cancer,” EPID 515: *Genetics in Public Health*, University of Michigan, Ann Arbor, MI

Oct. 24, 2007 “Neuroepidemiology of Autism Spectrum Disorders,” EPID 516: *Neuroepidemiology*, University of Michigan, Ann Arbor, MI

- Oct 3, 2007 “Genetic testing in the genomic era: Social and policy implications,” EPID 515: *Genetics in Public Health*, University of Michigan, Ann Arbor, MI
- Jun 19, 2007 “Genetics in nursing,” Nursing 334: *Health Promotion and Risk Reduction for Individuals and Families*, University of Michigan, Ann Arbor, MI
- Dec. 4, 2006 “Asthma pharmacogenomics,” EPID 515: *Genetics in Public Health*, University of Michigan, Ann Arbor, MI
- Sep. 27, 2006 “Newborn screening policies and practices,” EPID 515: *Genetics in Public Health*, University of Michigan, Ann Arbor, MI

STUDENT SUPERVISION

Doctoral Dissertation Committee Member

- 2015-Present Minjung Kho (Epidemiology)
The genetics of sodium intake and its role in blood pressure variation in multi-ethnic populations
- 2015-Present Kristen Brown (Epidemiology)
The role of the social environment in immune system related gene expression
- 2014-2015 Paul Christine (Epidemiology; Medicine)
Bridging the gap: biologic, behavioral, and environmental contribution to the development of type 2 diabetes
- 2014-2015 Min A Jhun (Epidemiology)
Gene-by-environment interaction: epidemiologic approaches to understanding mechanisms of cardiovascular disease
- 2013-2014 Neha Sheth (Epidemiology)
Investigation of the relationship of statin medication use, fasting blood glucose levels, and type 2 diabetes mellitus
- 2012-2013 Erin (Bakshis) Ware (Epidemiology)
Genes, the environment, and depressive symptom scores in the Multi-Ethnic Study of Atherosclerosis
- 2012-2013 Erin Payne (Epidemiology)
Genetic studies of salivary cortisol profiles and their influence on chronic disease risk factors
- 2012 Alicia (Lazarus) Zagel (Epidemiology)
Unraveling the role of epigenetics in aging and chronic disease
- 2012 Chun-Yi Wu (Epidemiology)
The genetics of blood pressure and body mass index: the tale of two major risk factors

Masters Thesis Advisor

- 2015-2016 Lisa Beacher (Epidemiology)
Applying ten-year cardiovascular risk scores to Clalit's patient population in Israel
- 2015-Present Timothy J. Hillman (Epidemiology)
- 2016-Present Jiaxuan Liu (Epidemiology)

AWARDS

- 2012-2014 National Institutes of Health (NIH) Health Disparities Research Loan Repayment Program Award, National Institute of Minority Health and Health Disparities (NIMHD), *"Identifying interactions among social, psychosocial, and genetic factors that influence blood pressure in multi-ethnic epidemiological cohorts"*
- 2009- 2010 Horace Rackham Predoctoral Fellowship
- 2006-2008 Genome Sciences Training Program (Predoctoral Fellowship), National Human Genome Research Institute (NHGRI) Training Grant
- 2005 Horace Rackham Recruitment Fellowship
- 2004 Myron and Isabel Wegman Tuition Scholarship (declined for alternative funding)

PROFESSIONAL SERVICE

- 2016-Present Member, *Research Committee*, University of Michigan Department of Epidemiology
- 2016-Present Chair, *Planning Committee of the 20th Anniversary Seminar Series for the Certificate Program in Public Health Genetics*, University of Michigan School of Public Health
- 2016-Present Grant Reviewer, *American Heart Association's Peer Review Committee for Genomics and Translational Biology – Observational Epidemiology (Populations)*
- 2016-Present Abstract Reviewer (*ad-hoc*), *American Public Health Association (Genomics Forum)*
- 2012-2016 Member, *Admissions Committee*, University of Michigan Department of Epidemiology
- 2009-2011 Judge for the Preliminary Stage of the *Young Epidemiology Scholars (YES) Competition*, sponsored by the Robert Wood Johnson Foundation and the College Board
- 2008-2009 Secretary, *Society for Epidemiologic Research – Student Caucus*
- 2008 Epidemiology Representative, *Symposium Planning Committee for the 2008 Doctoral Student Health Research Symposium: Multi-Disciplinary Approaches toward Improving Health*, University of Michigan School of Public Health

2007-2010	Research/Science Advisor, <i>Engaging Abilities</i> , Non-profit Organization, Ann Arbor, Michigan
2007-2008	Member, <i>Stat-Com: Statistics in the Community</i> , University of Michigan School of Public Health
2006-2009	Doctoral Student Representative, <i>Curriculum Committee</i> , University of Michigan Department of Epidemiology
2006-2008	Executive Committee Member (2006-2008) and Co-Chair (2007-2008), <i>School of Public Health Doctoral Students</i> , University of Michigan School of Public Health

PROFESSIONAL AFFILIATIONS

American Heart Association (*Council on Functional Genomics and Translational Biology*)
 American Society of Human Genetics
 International Genetic Epidemiology Society
 Society for Epidemiologic Research
 American Public Health Association (*Epidemiology Section; Aging and Public Health Section; Genomics Forum*)

AD-HOC SCIENTIFIC JOURNAL REVIEW

Age and Ageing
BMC Medical Genetics
Brain Disorders and Therapy
Cardiovascular Diabetology
Circulation: Cardiovascular Genetics
International Journal of Molecular Sciences
The Lancet
Neurology
Neuroepidemiology
PLoS One
Rubriq peer review service

PUBLICATIONS (underlined author is a student/mentee)

Full publication list:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1Bm0Z93OkAG/bibliography/40779637/public/?sort=date&direction=ascending>

Peer-Reviewed Publications

1. Joehanes R*, Just AC*, Marioni R*, Pilling LC*, Reynolds LM*, Mandaviya PR*, Guan W*, Xu T*, Elks C*, Aslibekyan S*, Moreno-Macias H*, Smith JA*, Brody JA*, Dhingra R*, ... (64 additional authors), ... Waldenberger M, Deary I, Fornage M, Levy D, London SJ. Epigenetic signatures of cigarette smoking. *Circulation: Cardiovascular Genetics* (**Accepted**).
 *Starred authors contributed equally to this work

2. Liu C*, Kraja AT*, **Smith JA***, Brody JA*, Franceschini N*, Bis JC, Rice K, Morrison AC, Lu Y, Weiss S, Guo X, (... 65 additional authors...), Ehret G, Newton-Cheh C, Levy D, Chasman DI. Meta-analysis identifies common and rare variants influencing blood pressure and overlapping with metabolic loci. *Nature Genetics* (**Accepted**).
*Starred authors contributed equally to this work
3. Ben-Avraham D, Karasik D, Verghese J, Lunetta KL, **Smith JA**, Eicher J, Vered R, Deelen J, (... 59 additional authors ...), Murabito JM, Atzmon G. The complex genetics of gait speed: genome-wide meta-analysis approach. *Aging* (**Accepted**).
4. Li ML, Li Y, Weeks O, Mijatovic V, Teumer A, Huffman JE, Tromp G, Fuchsberger CS, (...139 additional authors including **Smith JA...**), Fox CS, Franceschini NF, Goessling W, Kottgen A, Chu AY. Two loci identified through large-scale exome chip analysis, *SOS2* and *ACPI*, show evidence for altered kidney development. *Journal of the American Society of Nephrology* (**Accepted**).
5. Weiss A, Baselmans BML, Hofer E, Yang J, Okbay A, Lind PE, Miller MB, Nolte I, Zhao W, (... 23 additional authors including **Smith JA...**), Bartels M, Luciano M. Personality polygenes, positive affect, and life satisfaction. *Twin Research and Human Genetics* [E-pub ahead of print]. PMID: 27546527.
6. Scott RA, Freitag DF, Li L, Chu AY, Grarup N, Stancakova A, Chen Y, Varga T, Yaghootkar H, Burns SM, Luan J, Zhao JH, Willems SM, Wessel J, (... 121 additional authors including **Smith JA...**), Deloukas P, Danesh J, Goodarzi MO, Kathiresan S, Meigs JB, Ehm MG, Wareham NJ, Waterworth DM. A genomic approach to therapeutic target validation identifies a glucose-lowering GLP1R variant protective for coronary heart disease. *Science Translational Medicine* 8(341):341ra76. PMID: 27252175.
7. Matteini AM, Tanaka T, Karasik D, Atzmon G, Chou Wen-Chi, Eicher JD, Johnson AD, Arnold AM, Callisaya ML, Davies G, Evans DS, Holtfreter B, Lohman K, Lunetta KL, Mangino M, Smith AV, **Smith JA**, (...45 additional authors...), Newman AB, Walston JD, Kiel DP, Murabito JM. GWAS analysis of hand grip and lower body strength in older adults in the CHARGE Consortium. *Aging Cell* [E-pub ahead of print]. PMID: 27325353.
8. Ko Y-A, Mukherjee B, **Smith J**, Allison M, Kardia S, Diez Roux A. Classification and clustering methods for multiple environmental factors in gene-environment interaction analysis – application to the Multi-Ethnic Study of Atherosclerosis. *Epidemiology* [E-pub ahead of print]. PMID: 27479650.
9. Liu CT, Raghavan S, Maruthur N, Kabagambe EK, Hong J, Ng MCY, Hivert MF, Lu Y, ... (106 additional authors including **Smith JA...**), Rotter J, Morris AP, Meigs JB. Trans-ethnic meta-analysis and functional annotation illuminates the genetic architecture of fasting glucose and insulin. *American Journal of Human Genetics* 99(1):56-75. PMID: 27321945.
10. Okbay A, Beauchamp JP, Fontana MA, Lee JJ, Pers TH, Rietveld CA, Turley P, Chyen GB, Emilsson V, Meddens FW, Oskarsson S, Pickrell JK, Thom K, Timshel P, de Vlaming R, (... 222 additional authors including **Smith JA ...**), Visscher PM, Esko T, Koellinger PD, Benjamin DJ. Genome-wide association study identifies 74 loci associated with educational attainment. *Nature* 533(7804):539-42. PMID: 27225129; PMCID: PMC4883595.
11. Sung YJ, Winkler TW, Manning AK, (...48 additional authors including **Smith JA...**), Kardia SLR, Zhu X, Rice K, Borecki IB, Rau DC, Gauderman WJ, Cupples LA. An empirical comparison of joint

and stratified frameworks for studying GxE interactions: systolic blood pressure and smoking in the CHARGE Gene-Lifestyle interactions working group. *Genetic Epidemiology* 40(5):404-15. PMID: 27230302; PMCID: PMC4911246.

12. Okbay A, Baselmans BML, De Neve JE, Turley P, Nivard MG, Fontana MA, Meddens SFW, Linner RK, Rietveld CA, (...157 additional authors including **Smith, JA...**), Krueger RF, Beauchamp JP, Koellinger PD, Benjamin DJ, Bartels M, Cesarini D. (2016) Genetic variants associated with subjective well-being, depressive symptoms and neuroticism identified through genome-wide analyses. *Nature Genetics* 48(6):624-33. PMID: 27089181; PMCID: PMC4884152.
13. Faul JD, Mitchell CM, **Smith JA**, Zhao W. (2016) Estimating telomere length heritability in an unrelated sample of adults – Is heritability of telomere length modified by lifecourse socioeconomic status? *Biodemography and Social Biology* 62(1):73-86. PMID: 27050034.
14. Demirkan A, Lahti J, Direk N, Viktorin A, Lunetta KL, Terracciano A, Nalls MA, Tanaka T, Hek K, Fornage M, Wellmann J, Cornelis M, Ollila HM, Yu L, **Smith JA**, (... 41 additional authors ...), Tiemeier H, van Duijn CM, Raikonen K. (2016) Somatic, positive and negative domains of the Center for Epidemiological Studies Depression (CES-D) scale: a meta-analysis of genome-wide association studies. *Psychological Medicine* 46(8):1613-23. PMID: 26997408.
15. Dunn EC, Wiste A, Radmanesh F, Almli LM, Gogarten SM, Sofer T, Faul JD, Kardina SL, **Smith JA**, Weir DR, Zhao W, Mirza SS, Hek K, Tiemier HW, Govesas JS, Sarto GE, Snively BM, Cornelis M, Koenen K, Kraft P, Purcell S, Ressler KJ, Rosand J, Wassertheil-Smoller S, Smoller JW. (2016) Genome-wide association study (GWAS) and genome-wide by environment interaction study (GWEIS) of depressive symptoms in African American and Hispanic/Latina women. *Depression and Anxiety* 33(4):265-80. PMID: 27038408; PMCID: PMC4826276.
16. Broadaway KA, Cutler DJ, Duncan R, Moore JL, Ware EB, Jhun MA, Bielak LF, Zhao W, **Smith JA**, Peyser PA, Kardina SLR, Ghosh D, Epstein MP. (2016) A statistical approach for testing cross-phenotype effects of rare variants. *American Journal of Human Genetics* 98(3):525-40. PMID: 26942286; PMCID: PMC4800053.
17. Day FR, Ruth KS, Thompson DJ, Lunetta KL, Pervjakova N, Chasman DI, Stolk L, Finucane HK, Sulem P, Bulik-Sullivan B, Esko T, Johnson AD, Elks CE, Franceschini N, He C, Altmaier E, Brody JA, Franke LL, Huffman JE, Keller MM, McArdle PF, Nutile T, Porcu E, Robino AA, Rose LM, Schick UM, **Smith JA**, (...120 additional authors ...), Murabito JM, Perry JRB, Murray A. (2015) Large-scale genomic analyses link reproductive aging to hypothalamic signaling, breast cancer susceptibility and BRCA1-mediated DNA repair. *Nature Genetics* 47(11):1294-303. PMID: 26414677; PMCID: PMC4661791.
18. Perinpan M, Ware EB, **Smith JA**, Turner ST, Kardina SL, Lieske JC. (2016) Key influence of sex on urine volume and osmolality. *Biology of Sex Differences* 7:12. PMID: 26865949; PMCID: PMC4748596.
19. Pattaro C, Teumer A, Gorski M, Chu AY, Li M, Mijatovic V, Garnaas M, Tin A, Sorice R, Li Y, (... 238 additional authors including **Smith JA...**), Boger CA, Goessling W, Chasman DI, Kottgen A, Kao WHL, Fox CS. (2016) Genetic associations at 53 loci highlight cell types and biologic pathways for kidney function. *Nature Communications* 7:10023. PMID: 26831199; PMCID: PMC4735748.

20. Peters MM, Joehanes R, Pilling LC, Schurmann C, Conneely KN, Powell J, Reinmaa E, Sutphin G, Zhernakova A, Schramm K, (... 92 additional authors including **Smith JA** ...), Visscher PM, Korstanje R, Hanson RL, Prokisch H, Ferucci L, Esko T, Teumer A, van Meurs JBJ, Johnson AD. (2015) The transcriptional landscape of age in human peripheral blood. *Nature Communications* 6:8570. PMID: 26490707; PMCID: PMC4639797.
21. Ware EJ, Mukherjee B, Sun YV, Diez-Roux AV, Kardia SLR, **Smith JA**. (2015) Comparative genome-wide association studies of a depressive symptom phenotype in a repeated measures setting by race/ethnicity in the Multi-Ethnic Study of Atherosclerosis. *BMC Genetics* 16(1):118. PMID: 26459564; PMCID: PMC4603946.
22. Needham BL*, **Smith JA***, Zhao W, Wang S, Mukherjee B, Kardia SLR, Shively CA, Seeman TE, Liu Y, Diez Roux AV. (2015) Life course socioeconomic status and DNA methylation in genes related to stress reactivity and inflammation: The Multi-Ethnic Study of Atherosclerosis. *Epigenetics* 10(10):958-69. PMID: 26295359; PMCID: PMC4844216.
*Starred authors contributed equally to this work
23. Perinpan M, Ware EB, **Smith JA**, Turner ST, Kardia SLR, Lieske JC. (2015) Effect of demographics on excretion of key urinary factors related to kidney stone risk. *Urology* 86(4):690-6. PMID: 26206452; PMCID: PMC4592816.
24. Ware EB, **Smith JA**, Mukherjee B, Lee S, Kardia SLR, Diez-Roux AV. (2015) Applying novel methods for assessing individual- and neighborhood-level social and psychosocial environment interactions with genetic factors in the prediction of depressive symptoms in the Multi-Ethnic Study of Atherosclerosis. *Behavior Genetics* 41(1):88-99. PMID: 26254610; PMCID: PMC472063.
25. Ware EB, Riehle E, **Smith JA**, Zhao W, Turner ST, Kardia SLR, Lieske JC. (2015) The SLC2A9 genotype is associated with SLC2A9 gene expression and urinary uric acid concentration. *PLoS One* 10(7):e0128593. PMID: 26167684; PMCID: PMC4500555.
26. Joshi PK, Esko T, Mattsson H, Eklund N, Gandin I, Nutile T, Jackson AU, Schurmann C, Smith AV, Zhang W, Okada Y, Stancakova A, Faul J, Zhao W, (... 344 additional authors including **Smith JA** ...), Wilson JF, for ROHGEN. (2015) Directional dominance on stature and cognition in diverse human populations. *Nature* 523(7561):459-62. PMID: 26131930; PMCID: PMC4516141.
27. He Z, Payne E, Mukherjee B, Lee S, **Smith JA**, Ware EB, Sanchez BN, Seeman TE, Kardia SLR, Diez Roux AV. (2015) Association between stress response genes and features of diurnal cortisol curves in the Multi-Ethnic Study of Atherosclerosis: a new multi-phenotype approach for gene-based association tests. *PLoS One* 10(5):e0126637. PMID: 25993632; PMCID: PMC4439141.
28. He Z, Zhang M, Lee S, **Smith JA**, Guo X, Palmas W, Kardia SL, Diez Roux AV, Mukherjee B. (2015) Set-based tests for genetic association in longitudinal studies. *Biometrics* 71(3):606-15. PMID: 25854837; PMCID: PMC4601568.
29. Lieske JC, Turner ST, Edeh SN, Ware EB, Kardia SLR, **Smith JA**. (2015) Heritability of dietary traits that contribute to nephrolithiasis in a cohort of adult sibships. *Journal of Nephrology* 29(1):45-51. PMID: 25963767; PMCID: PMC4643420.
30. Ibrahim-Verbaas CA, Bressler J, Debette S, Schuur M, Smith A, Bis JC, Davies G, Trompet S, **Smith JA**, Wolf C, Chibnik LB, Liu Y, (... 107 additional authors ...), Bennett DA, Deary IJ, Ikram MA,

- Launer L, Fitzpatrick AL, Seshandri S, van Duijn CM, Mosley TH. (2015) GWAS for executive function and processing speed suggests involvement of the CADM2 gene. *Molecular Psychiatry* 21(2):189-97. PMID: 25869804; PMCID:PMC4722802.
31. Nead KT, Li A, Wehner MR, Neupane B, Gustafsson S, Butterworth A, Engert JC, Davis AD, Hegele RA, Miller R, den Hoed M, Khaw K-T, Kilpelainen T, Wareham N, Edwards TL, Hallmans G, Varga TV, Kardina SLR, **Smith JA**, (... 40 additional authors ...), Meyre D. (2015) Contribution of common non-synonymous variants in PCSK1 to body-mass index variation and risk of obesity: A systematic review and meta-analysis with evidence from up to 331,175 individuals. *Human Molecular Genetics* 24(12):3582-94. PMID: 25784503; PMCID: PMC4498115.
32. Zhao W, **Smith JA**, Mao G, Fornage M, Peyser PA, Turner ST, Kardina SLR. (2015) The cis and trans effects of the risk variants of coronary artery disease in the chr9p21 region. *BMC Medical Genomics* 8:21. PMID:25958224; PMCID: PMC4432789.
33. Epstein MP, Duncan R, Ware E, Jhun MA, Bielak LF, Zhao W, **Smith J**, Peyser PA, Kardina SLR, Satten G. (2015) Statistical approaches for rare-variant association testing in affected sibships. *American Journal of Human Genetics* 96(4):543-54. PMID: 25799106; PMCID: PMC4385187.
34. Locke AE, Kahali B, Berndt SI, Justice AE, Pers TH, Day FR, Powell C, Vedantam S, Buchkovich ML, Yang J, Croteau-Chonka D, Esko T, Fall T, Ferreira T, Gustafsson S, Kutalik Z, Luan J, Maji R, Randall JC, Winkler TW, Wood AR, Workalemaju T, Faul JD, **Smith JA**, (... 459 Additional authors ...), North KE, Ingelsson E, Hirschhorn JN, Loos RJF, Speliotes EK. (2015) Genetic studies of body mass index yield new insights for obesity biology. *Nature* 518(7538):197-206. PMID: 25673413; PMCID: PMC4382211.
35. Verhaaren BFJ*, Debette S*, Bis JC*, **Smith JA***, Ikram MK, Adams HH, Beecham AH, Rajan KB, Lopez LM, Barral S, (...88 additional authors...), Launder LJ*, Grabe HJ*, Seshadri SS*, Ikram MA*, Fornage M*. (2015) Multiethnic genome-wide association study of cerebral white matter hyperintensities on MRI. *Circulation: Cardiovascular Genetics* 8(2):398-409. PMID: 25663218; PMCID: PMC4427240.
*Starred authors contributed equally to this work
36. Davies G, Armstrong N, Bis JC, Bressler J, Chouraki V, Giddaluru S, Hofer E, Ibrahim-Verbaas CA, Kirin M, Lahti J, van der Lee SJ, He Hellard S, Liu T, Marioni RE, Oldmeadow C, Postmus I, Smith AV, **Smith JA**, (... 102 additional authors ...), van Duijn C, Launer L, Fitzpatrick AL, Seshadri S, Mosley Jr. 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=53 949). *Molecular Psychiatry* 20(2):183-92. PMID: 25644384; PMCID: PMC4356746.
37. Wessel J, Chu A, Willems S, Wang S, Yaghootkar H, Brody J, Dauriz M, Hivert M, Raghavan S, Lipovich L, Hidalgo B, Fox K, Huffman JE, An P, Lu Y, (...190 additional authors including **Smith JA** ...), Meigs J, Scott RA, Goodarzi MO. (2015) Low-frequency and rare exome chip variants associate with fasting glucose and type 2 diabetes susceptibility. *Nature Communications* 6:5897. PMID: 25631608; PMCID: PMC4311266.
38. Zhu X, Feng T, Tayo BO, Liang J, Young JH, Franceschini N, **Smith JA**, Yanek LR, Sun YV, Edwards TL, Chen W, Nalls M, Fox E, Sale M, Bottinger E, Rotimi C, COGENT BP consortium, Liu Y, McKnight B, Liu K, Arnett DK, Chakravarti A, Cooper RS, Redline S. (2015) Meta-analysis of

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Invited Reviews and Editorials

1. **Smith JA**, Ware EB, Middha P, Beacher L, Kardia SLR. (2015) Current applications of genetic risk scores to cardiovascular outcomes and subclinical phenotypes. *Current Epidemiology Reports* 2(3):180-90. PMID: 26269782; PMCID: PMC4527979.

Book Chapters

1. **Smith JA**, Mosley TH, Turner ST, Kardia SLR. (2012) “Shared genetic effects among measures of cognitive function and leukoaraiosis,” in *Brain Injury – Pathogenesis, Monitoring, Recovery and Management*. Editor: Amit Agrawal. InTech. ISBN 978-953-51-0265-6. Available from: <http://www.intechopen.com/books/brain-injury-pathogenesis-monitoring-recovery-and-management/shared-genetic-effects-among-measures-of-cognitive-function-and-leukoaraiosis>
2. Kelly RJ, **Smith JA**, Kardia SLR. (2010) “Providing context and interpretability to genetic association analysis results using the KGraph,” in *Computational Methods for Genetics of Complex Traits*. Editors: Dunlap JC, Moore JH. Elsevier: USA. *Advances in Genetics Book Series* (72):181-93. ISBN: 978-0-12-380862-2, PubMed PMID: 21029853.

Submitted Manuscripts

1. Canales B,* **Smith JA**,* Weiner ID, Ware EB, Zhao W, Kardia SLR, Curhan GC, Turner ST, Perinpam M, Lieske JC. Polymorphisms in renal ammonia metabolism genes correlate with 24 hour urine pH. *Submitted*.
*Starred authors contributed equally to this work
2. Jhun MA, **Smith J**, Kardia SLR, Mosley TH Jr, Turner ST, Peyser PA, Park SK. Modeling the causal role of DNA methylation in the association between smoking and inflammation in African Americans: A two-step epigenetic Mendelian randomization study. *Submitted*.
3. Direk N, Williams S, **Smith JA**, Ripke S, Amare AT, Amin N, Bennett DA, Blackwood DHR, Boomsma D, (... 77 additional authors ...), Tiemeier H, Sullivan PF. A combined analysis of two genome-wide association meta-analyses identifies a susceptibility locus for depression continuum. *Submitted*.
4. Pulit SL, McArdle PF, Wong Q, Malik R, Gwinn K, (... 182 additional authors, including **Smith JA**...), Worrall BB, de Bakker PIW, Kittner SJ, Mitchell BD, Rosand J. A genome-wide association study of ischemic stroke and its subtypes identifies a novel locus near *TSPAN2* for stroke related to atherosclerosis. *Submitted*.
5. Perinpam M, Ware EB, **Smith JA**, Turner ST, Kardia SLR, Lieske JC. Association of urinary citrate excretion, pH, and net gastrointestinal alkali absorption with diet, diuretic use, and diabetic risk factors. *Submitted*.
6. Ligthart S, Marzi C, Aslibekyan S, Mendelson MM, Conneely KN, Tanaka T, Colicino E, Waite LL, (... 69 additional authors including **Smith JA**...), Arnett D, Baccarelli A, Benjamin E, Dehghan A. DNA methylation signatures of chronic low-grade inflammation are associated with complex diseases. *Submitted*.

7. He Z, Zhang M, Lee S, Smith JA, Kardia SLR, Diez Roux AV, Mukherjee B. Set-based tests for gene-environment interaction in longitudinal studies. *Submitted.*
8. Graff M, Scott R, Justice AE, Young KL, Feitosa M, Barata L, Winkler TW, Chu A, Mahajan A, (... 267 additional authors including **Smith JA** ...), Cupples LA, Loos RJF, Kilpelainen TO. Genome-wide physical activity interactions in adiposity – a meta-analysis of 200,452 adults. *Submitted.*
9. Barban N, Jansen R, de Vlaming R, Vaez A, Mandemakers J, Tropf FC, Shen X, Wilson JF, Chasman DI, (... 246 additional authors including **Smith JA** ...), Benjamin DJ, Cesarini D, Koellinger PD, den Hoed M, Snieder H, Mills M. Large-scale genomic analysis identifies 12 loci harbouring genes for human fertility and reproductive behavior. *Submitted.*
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11. Do AN, Zhao W, Srinivasasainagendra V, Aslibekyan S, Tiwari H, Limdi N, Shas S, Zhi D, Broeckel U, Gu C, Rao DC, Schwander K, **Smith JA**, Kardia S, Arnett D, Irvin MR. Whole exome analyses for rare variant impact on left ventricular traits in African American participants from the HyperGEN and GENOA studies. *Submitted.*

Manuscripts in Preparation

1. **Smith JA**, Zhao W, Needham B, Faul JD, Seeman TE, Boerwinkle E, Chakravarti A, Gao Y, Griswold ME, Heiss G, Musani SK, North K, Rose K, Sims M, Sun YV, Tomey KT, Weir DR, Kardia SLR, Diez-Roux AV. Identifying interactions among social, psychosocial, and genetic factors that influence blood pressure in multi-ethnic epidemiologic cohorts. *In preparation.*
2. **Smith JA**, Tomey KT, Needham BL, Ware EB, Seeman T, Rapp SR, Kardia SLR, Diez Roux AV. Does the apolipoprotein E (APOE) epsilon-4 allele modify associations between social factors and cognitive functioning: A cross-sectional investigation in the Multi-Ethnic Study of Atherosclerosis.
3. **Smith JA**, Zhao W, Wang S, Mukherjee B, Kardia SLR, Seeman T, Shively C, Liu Y, Diez Roux A, Needham B. Neighborhood characteristics impact DNA methylation in genes involved in stress reactivity and inflammation: The Multi-Ethnic Study of Atherosclerosis.
4. Zhao W,* **Smith JA**,* Wang S, Mukherjee B, Kardia SLR, Seeman T, Shively C, Liu Y, Needham B, Diez Roux A. The effect of individual-level stress on DNA methylation in genes related to stress reactivity and inflammation: The Multi-Ethnic Study of Atherosclerosis.
**Starred authors contributed equally to this work*
5. **Smith JA**, Wu CY, Sun YV, Kardia SLR. Examining the complex genetic architecture of blood pressure and body mass index in Genetic Epidemiology Network of Arteriopathy (GENOA) whites and blacks. *In preparation.*
6. Christine PJ, **Smith JA**, Mukherjee B, Adar S, Bertoni A, Carnethon M, Meigs J, Rasmussen-Torvik L, Kardia SLR, Diez Roux AV. The interaction of neighborhood environments and genetic risk for type 2 diabetes: The Multi-Ethnic Study of Atherosclerosis. *In preparation.*
7. He KY, Wang H, Cade BE, Nandakumar P, Giri A, Ware EB, Haessler J, Liang J, **Smith JA**, Franceschini N, Kooperberg C, Edwards TL, Kardia SLR, Lin X, Chakravarti A, Redline S, Zhu X.

Rare variants in Fox-1 homolog A (RFX1) are protectively associated with blood pressure. *In preparation.*

8. Ng MCY, Graff M, Lu Y, Justice A, Mudgal P, Liu CT, Young K, Agler C, Yanek LR, Feitosa MF, Wojczynski MK, Rand K, (... 94 additional authors including **Smith JA**...), Haiman C, Loos RJJ, North K. Discovery and fine-mapping of adiposity loci using high density imputation of genome-wide association studies in individuals of African ancestry: African Ancestry Anthropometry Genetics Consortium. *In preparation.*
9. Marouli E, Graff M, Medina-Gomez C, Lo KS, Wood AR, Kjaer TR, Lu Y, Schurmann C, (... 362 additional authors including **Smith JA** ...), Deloukas P, Lettre G. Numerous rare and low-frequency coding variants implicate genes in human adult height variation. *In preparation.*

PRESENTATIONS

Professional Meetings

1. He KY, Wang H, Cade BE, Nandakumar P, Giri A, Ware EB, Haessler J, Liang J, **Smith JA**, Franceschini N, Kooperberg C, Edwards TL, Kardia SLR, Lin X, Chakravarti A, Redline S, Zhu X. Rare variants in Fox-1 homolog A (RFX1) are protectively associated with blood pressure. American Society of Human Genetics Annual Meeting, Vancouver, Canada, October 18-22, 2016. [*abstract submitted*]
2. **Smith JA**, Faul JD, Zhao W, Kho M, Hillman TJ, Ware EB, Mitchell C. Gene-based association and gene-by-education interaction on episodic memory in the Health and Retirement Study. Integrating Genetics and Social Sciences Conference, Boulder, CO, October 21-22, 2016. [*abstract accepted for presentation*]
3. Zhao W, Ware EB, **Smith JA**, Faul JD, Kardia SLR. Social and psychosocial factors modify the effect of genetic variants on body mass index: A gene environment interaction analysis in a longitudinal setting. Integrating Genetics and Social Sciences Conference, Boulder, CO, October 21-22, 2016. [*abstract accepted for presentation*]
4. Ware EB, Schmitz L, Faul J, **Smith JA**, Mitchell C, Zhao W, Weir D, Kardia SLR. Establishing best practices: generating polygenic scores in a population-representative cohort. Integrating Genetics and Social Sciences Conference, Boulder, CO, October 21-22, 2016. [*abstract accepted for panel discussion*]
5. Lieske JC, Perinpan M, Ware EB, **Smith JA**, Turner ST, Kardia SL. Higher blood glucose is associated with higher urine citrate excretion. 13th Annual Symposium on Urolithiasis, Makuhari, Japan, July 19-22, 2016. [*abstract accepted for poster*]
6. Brown K, Kardia S, Diez Roux A, Liu Y, **Smith J**, Needham B, Cole S, Mukherjee B, Ware E, Seeman T. Getting “Under the Skin”: Human Social Genomics in the Multi-Ethnic Study of Atherosclerosis, 2016 Epidemiology Congress of the Americas, Miami, FL, June 21-24, 2016. [*abstract accepted for poster*]
7. **Smith JA**, Ware EB, Zhao W, Faul JD, Kardia SLR. Gene-by-psychosocial factor interactions on blood pressure in older non-Hispanic whites and African Americans: A genomic region-level

analysis. *Poster presentation*. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health 2016 Scientific Sessions, Phoenix, AZ, Mar 1-4, 2016.

8. Ware EB, **Smith JA**, Faul J, Kardia SLR. Ethnic disparities in social and psychosocial factors modify the effect of genes on BMI. *Poster presentation*. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health 2016 Scientific Sessions, Phoenix, AZ, Mar 1-4, 2016.
9. Richard MA, Huan T, Ligthart S, Marioni RE, Brody JA, Sotoodehnia N, Jhun MA, Kardia SLR, **Smith JA**, Irvin MR, Arnett D, Aslibekyan S, Shen J, Baccarelli A, Just AC, Tsai PC, Bell JT, Spector TD, Boerwinkle E, Jia Y, Guo X, Rotter JI, Palmas W, Liu Y, Levy D, Fornage M. Novel genetic loci for blood pressure regulation identified by the analysis of DNA methylation. *Poster presentation*. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health 2016 Scientific Sessions, Phoenix, AZ, Mar 1-4, 2016.
10. Ng MC, Graff M, Justice A, Lu YC, Mudgal P, Liu CT, Rand K, Duan Q, Cade B, Brody J, Wojczynski MK, Feitosa MF, Yanek LR, **Smith JA**, Nalls MA, Chen G, Sha J, Lange L, Vedantam S, Guo X, Chen WM, Chesi A, Haiman C, Loos R, North K. Identification of novel loci associated with anthropometric traits in African Ancestry populations. *Poster presentation*. American Heart Association Epidemiology and Prevention / Lifestyle and Cardiometabolic Health 2016 Scientific Sessions, Phoenix, AZ, Mar 1-4, 2016.
11. Kho M, **Smith JA**, Zhao W, Ware EB, Kardia SLR. Genome-wide meta-analysis of salty taste preference in multi-ancestry cohorts. *Poster presentation*. University of Michigan School of Public Health Doctoral Day, Ann Arbor, MI, Jan 29, 2016.
12. Perinpan M, Ware EB, **Smith JA**, Turner ST, Kardia SLR, Lieske JC. Independent effect of blood glucose level on urinary citrate and pH. *Poster presentation*. Kidney Week 2015, American Society of Nephrology, San Diego, CA, November 3-8, 2015.
13. Perinpan M, Ware EB, **Smith JA**, Turner ST, Kardia SLR, Lieske JC. Key influence of sex on urine volume and osmolality. *Poster presentation*. Kidney Week 2015, American Society of Nephrology, San Diego, CA, November 3-8, 2015.
14. Mitchell C, Faul J, **Smith J**, Zhao W. Investigating social and genetic influences of cognitive decline: Insights from using population-based longitudinal data. *Platform presentation*. Society for Longitudinal and Lifecourse Studies (SLLS) Conference, Dublin, Ireland, October 19-21, 2015.
15. Epstein MP, Broadway A, Cutler D, Duncan R, Moore JL, Ware EB, Jhun MA, Bielak LF, Zhao W, **Smith JA**, Peyser PA, Kardia SLR. A statistical approach for testing pleiotropic effects of rare variants. *Poster presentation*. American Society of Human Genetics Annual Meeting, Baltimore, MD, October 6-10, 2015.
16. Liu C, Kraja AT, **Smith JA**, Brody JA, Franceschini N, Morrison AC, Lu Y, Weiss S, (...20 additional authors...), Levy D, Chasman D, on behalf of the CHARGE Plus Exome Chip Blood Pressure Consortium. Association of mitochondrial and nuclear oxidative phosphorylation variants with blood pressure traits. *Poster presentation*. Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium meeting, Jackson, MS. July 1-2, 2015.

17. Epstein MP, Ware E, Jhun MA, Bielak LF, Zhao W, **Smith J**, Peyser PA, Kardia SLR, Satten GA. Statistical approaches for rare-variant association testing in affected sibships. *Platform presentation*. American Society of Human Genetics Annual Meeting. San Diego, CA. October 18-22, 2014.
18. Ng MCY, Graff M, Justice A, Lu K, Mudgal P, Rand K, Li Y, Cade BE, Brody J, Wojczynski MK, Yanek LR, **Smith J**, (...15 additional authors...), Loos RJF, North KE, for the African Ancestry Anthropometry Genetic Consortium. Genome-wide association of 44,714 subjects of African Ancestry imputed to the 1000 Genomes reference panel identifies two novel loci influencing body mass index. *Poster presentation*. American Society of Human Genetics Annual Meeting, San Diego, CA, October 18-22, 2014.
19. Liu C, Kraja AT, **Smith JA**, Brody J, Franceschini N, Morrison AC, Lu K, Loos R, Weiss S, Auer PL, Guo X, Chu AY, Jakobsdottir J, Bis JC, Zhao W, (...13 additional authors ...), Levy D, on behalf of the CHARGE Plus Exome Chip Blood Pressure Consortium. Novel genetic determinants identified for blood pressure traits using exome arrays in the CHARGE Consortium. *Poster presentation*. American Society of Human Genetics Annual Meeting, San Diego, CA, October 18-22, 2014.
20. Satizabal CL, **Smith JA**, Bis J, Yu L, Beiser A, Zhao W, Rotter JI, Buchman AS, Au R, Turner ST, Longstreth WT, Kardia SLR, Psaty BM, Bennett DA, Fitzpatrick AL, Seshadri S, Mosley T, Neuro-CHARGE consortium. A genome wide association study on fine motor function. *Poster presentation*. American Society of Human Genetics Annual Meeting, San Diego, CA, October 18-22, 2014.
21. Schrager JH, Ware EB, **Smith JA**, Zhao W, Kardia SLR. RE-1 silencing transcription factor gene variation and gene expression in the Genetic Epidemiology Network of Arteriopathy study. *Poster presentation*. University of Michigan School of Public Health Masters Student Poster Day. Ann Arbor, MI. October 17, 2014.
22. Satizabal CL, **Smith JA**, Yu L, Bis J, Fitzpatrick A, Bennett D, Seshadri S, Mosley T. A genome wide association study on fine motor function. *Poster presentation*. 139th Annual American Neurological Association Meeting, Baltimore, MD, October 11-14, 2014.
23. Faul JD, Mitchell C, **Smith JA**. Is heritability of telomere length modified by lifecourse socioeconomic status? *Poster presentation*. 4th Annual Integrating Genetics and Social Sciences Conference, Boulder, CO, October 9-10, 2014.
24. Needham B, **Smith J**, Diez Roux A, Kardia S, Liu Y, Zhao W, Wang S, Mukherjee B, Register T, Seeman T, Shively C. Childhood SES and DNA methylation in genes related to stress reactivity and inflammation: The Multi-Ethnic Study of Atherosclerosis. *Platform presentation*. International Conference on Social Stress Research, Vancouver, BC, Canada, June 7-9, 2014.
25. Canales B, **Smith J**, Zhao W, Curhan G, Weiner D, Lieske J. Single nucleotide polymorphisms in three genes contribute to urine pH variation in the general population. *Poster presentation*. American Urological Association Annual Meeting, San Diego, CA, May 4-8, 2014.
26. Canales B, **Smith J**, Zhao W, Curhan GC, Weiner D, Lieske JC. Do single nucleotide polymorphisms contribute to urine pH variation? A genetic association study. *Poster presentation*. Kidney Week 2013, American Society of Nephrology, Atlanta, GA, November 5-10, 2013.
27. Franceschini N, Fox E, Zhang Z, Edwards TL, Nalls MA, Sung YJ, Tayo BO, Sun YV, Gottesman O, Adeyemo A, Johnson AD, Young JH, Rice K, Duan Q, Cheng F, Li Y, Tang H, Fornage M, Keene

- KL, Andrews JS, **Smith JA**, Faul JD, (... 78 additional authors ...), Chakravarti A, Reiner AP, Levy D, Keating BJ, Zhu X. Genome-wide association analysis of blood pressure traits in nearly 30,000 African Ancestry individuals reveals a common set of associated genes in African and non-African populations. *Poster presentation*. American Society of Human Genetics Annual Meeting. Boston, MA. October 22-26, 2013.
28. **Smith JA**, Zhao W, Needham B, Faul JD, Seeman TE, Boerwinkle E, Chakravarti A, Weir DR, Kardia SLR, Diez-Roux AV. Identifying interactions among social, psychosocial, and genetic factors that influence blood pressure in three multi-ethnic epidemiological cohorts: the Multi-Ethnic Study of Atherosclerosis (MESA), the Atherosclerosis Risk in Communities Study (ARIC), and the Health and Retirement Study (HRS). *Poster presentation*. American Society of Human Genetics Annual Meeting. Boston, MA. October 22-26, 2013.
29. Bomotti S, **Smith JA**, Lazarus AL, Mosley TH, Jr., Turner ST, Kardia SLR. An epigenetic intersection of age, inflammation, and kidney function. *Poster presentation*. University of Michigan School of Public Health Masters Student Poster Day. Ann Arbor, MI. October 26, 2012.
30. Gao CW, **Smith JA**, Lazarus AL, Kardia SLR. The effect of epigenetic predictors on HDL-cholesterol in African Americans. *Poster presentation*. University of Michigan School of Public Health Masters Student Poster Day. Ann Arbor, MI. October 26, 2012.
31. Lazarus AL, **Smith JA**, Mosley TH, Jr., Turner ST, Kardia SLR. The role of aging in the heritability of epigenomic markers. *Platform presentation*. Twenty-first Annual Meeting of the International Genetic Epidemiology Society (IGES), Stevenson, WA, October 18-20, 2012. *Genetic Epidemiology* 36(7): 722.
**Nominated for Williams Award*
32. Lazarus AL, **Smith JA**, Mosley TH, Jr., Turner ST, Sun YV, Kardia SLR. Epigenomic indicators of age. *Poster presentation*. Twenty-first Annual Meeting of the International Genetic Epidemiology Society (IGES), Stevenson, WA, October 18-20, 2012. *Genetic Epidemiology* 36(7):768.
33. **Smith JA**, Lazarus AL, Mosley TH, Jr., Turner ST, Kardia SLR. An epigenetic intersection of age, inflammation, and kidney function. *Poster presentation*. Twenty-first Annual Meeting of the International Genetic Epidemiology Society (IGES), Stevenson, WA, October 18-20, 2012. *Genetic Epidemiology* 36(7):769.
34. Liekse JC, Turner ST, Edeh S, Fuller T, **Smith JA**, Kardia SR. Heritability of urinary traits that contribute to nephrolithiasis. *Poster presentation*. Kidney Week 2012, American Society of Nephrology, San Diego, CA, October 30-November 4, 2012.
35. Sun YV, Lazarus A, **Smith JA**, YH Chang, Zhao W, Turner ST, Kardia SLR. Gene-specific DNA methylation association with serum levels of C-reactive protein in African Americans. *Poster presentation*. American Heart Association / American Stroke Association Basic Cardiovascular Sciences 2012 Scientific Sessions, New Orleans, LA, July 23-26, 2012.
36. Kim DS, Wu CY, **Smith JA**, Bielak LF, Peyser PA, Sun YV, Sheedy PF, Turner ST, Kardia SLR. Genetic interactions with serum homocysteine levels predicts coronary artery calcification in GENOA, with replication in the Framingham Heart Study. *Poster presentation*. American Heart Association Scientific Sessions, Orlando, FL, November 12-16, 2011.

37. Kim DS, Wu CY, **Smith JA**, Bielak LF, Peyser PA, Sun YV, Sheedy PF, Turner ST, Kardina SLR. Gene-environment interactions predicting coronary artery calcification in GENOA, with replication in the Framingham Heart Study. *Poster presentation*. NHLBI Symposium: Genomics: Gene Discovery and Clinical Applications for Cardiovascular, Lung, and Blood Diseases, Bethesda, MD, September 12-13, 2011.
38. **Smith JA**, Arnett DK, Kelly RJ, Ordovas JM, Sun Y, Hopkins PN, Hixson JE, Straka RJ, Peacock JM, Kardina SLR. SNP-risk factor interactions predict postprandial triglyceride response to Fenofibrate. *Poster presentation*. 2008 Doctoral Student Health Research Symposium: Multi-Disciplinary Approaches Toward Improving Health, University of Michigan, Ann Arbor, MI, March 24, 2008.
39. **Smith JA**, Kardina SLR. The genetic architecture of fasting plasma triglyceride response to Fenofibrate treatment. *Platform presentation*. PROGENI/NHLBI Gene-Environment Interaction Studies Annual Meetings, Baltimore, MD, December 3-4, 2007.
40. **Smith JA**, Turner ST, Sun YV, Fornage, Mosley TH, Boerwinkle E, de Andrade M, Kardina SLR. The genetic architecture of leukoaraiosis in hypertensive sibships. *Poster presentation*. Sixteenth Annual Meeting of the International Genetic Epidemiology Society (IGES), North Yorkshire, England, September 7-10, 2007. *Genetic Epidemiology* 32(7):714.
41. **Smith JA**, Arnett DK, Kelly RJ, Ordovas JM, Sun Y, Hopkins PN, Hixson JE, Straka RJ, Peacock JM, Kardina SLR. SNP-risk factor interactions predict postprandial triglyceride response to Fenofibrate. *Poster presentation*. Clinical Cardiovascular Genomics Meetings, Cold Spring Harbor Laboratory, Cold Spring, NY, October 10-13, 2007.
42. **Smith JA**, Arnett DK, Kelly RJ, Ordovas JM, Sun Y, Hopkins PN, Peacock JM, Kardina SLR. Interacting genetic factors influencing fasting VLDL response to Fenofibrate. *Poster presentation*. Fifteenth Annual Meeting of the International Genetic Epidemiology Society (IGES), St. Petersburg, FL, November 16-17, 2006. *Genetic Epidemiology* 31(5):498.
43. Kelly RJ, Jacobsen DM, Sun YV, **Smith JA**, Kardina SLR. KGraph: Visualizing and evaluating complex genetic associations. *Poster presentation*. Fifteenth Annual Meeting of the International Genetic Epidemiology Society (IGES), St. Petersburg, FL, November 16-17, 2006. *Genetic Epidemiology* 31(5):478.
44. Kelly RJ, Arnett DK, **Smith JA**, Ordovas JM, Sun YV, Hopkins PN, Peacock JM, Kardina SLR. Interacting genetic factors influencing fasting LDL and HDL response to Fenofibrate. *Poster presentation*. Fifteenth Annual Meeting of the International Genetic Epidemiology Society (IGES), St. Petersburg, FL, November 16-17, 2006. *Genetic Epidemiology* 31(5):477.
45. **Smith JA**, Arnett DK, Kelly RJ, Ordovas JM, Sun Y, Hopkins PN, Hixson JE, Straka RJ, Peacock JM, Kardina SLR. A novel apolipoprotein A-IV polymorphism is associated with lipoprotein metabolism and response to Fenofibrate. *Poster presentation*. 2nd North American Congress of Epidemiology, Society for Epidemiologic Research, Seattle, WA, June 21-24, 2006. *American Journal of Epidemiology* 163 (Suppl 11):S128.

Invited Presentations

- Apr. 26, 2016 “ ‘Omic’ epidemiology with a social twist: Applications to pathological aging of the brain.” Survey Research Center, Institute for Social Research, University of Michigan,

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Ann Arbor, MI

- Feb. 15, 2016 “ ‘Omic’ epidemiology with a social twist: Applications to pathological aging of the brain.” Department of Epidemiology, University of Michigan, Ann Arbor, MI
- Feb. 12, 2016 “ ‘Omic’ epidemiology with a social twist: Applications to pathological aging of the brain.” Population, Neurodevelopment and Genetics (PNG), Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI
- Feb. 28, 2013 “Age, epigenomic variation, and chronic disease in African Americans,” Center for Integrative Approaches to Health Disparities (CIAHD)/Jackson Heart Study (JHS) Junior Investigator Symposium, Jackson, MS
- April 30, 2012 “Investigating the genetic architecture of hypertension-related structural brain injury,” Department of Epidemiology, University of Michigan, Ann Arbor, MI