

## CURRICULUM VITAE

### PERSONAL DATA

Name: **Sharon Lee Reilly Kardia** E-mail:skardia@umich.edu  
Address: School of Public Health Phone: 734-764-4221  
Department of Epidemiology Fax: 734-764-8563  
1415 Washington Heights  
Ann Arbor, MI 48109-2029

### EDUCATION

1981-1985 Carnegie-Mellon University, B.S. Biological Sciences  
1987-1990 University of Michigan, M.A. Statistics  
1985-1991 University of Michigan, Ph.D. Human Genetics  
(Ph.D. Thesis: "Systems Analysis of the Hormonal Control of Renal Hemodynamics and Sodium Excretion")

### POSTDOCTORAL TRAINING

1991 Santa Fe Institute for the Study of Complexity  
1991-1992 Department of Microbiology and Immunology Postdoctoral Fellow (Dr. Michael Savageau, University of Michigan)  
1992-1993 Department of Human Genetics Postdoctoral Fellow (Dr. Charles F. Sing, University of Michigan)  
1993-1994 Department of Human Genetics Research Associate II (Dr. Charles F. Sing, University of Michigan)

### ACADEMIC APPOINTMENTS

1994-1998 Assistant Research Scientist, Department of Human Genetics, Medical School, University of Michigan  
1998-2003 Assistant Professor, Department of Epidemiology, School of Public Health, University of Michigan  
2003-2008 Associate Professor, Department of Epidemiology, School of Public Health, University of Michigan  
2008-present Professor, Department of Epidemiology, School of Public Health, University of Michigan  
2008-2012 Chair, Department of Epidemiology, School of Public Health, University of

Michigan

2012-present Senior Associate Dean for Administration, School of Public Health, University of Michigan

2019-2022 Associate Dean of Education, School of Public Health, University of Michigan

2022- present Senior Associate Dean of Education, School of Public Health, University of Michigan

## **CENTER AND PROGRAM AFFILIATIONS**

1998-present Member, Center for Research on Ethnicity, Culture, and Health, University of Michigan

2000-present Member, Center for Statistical Genetics, University of Michigan

2001-present Member, Bioinformatics Program, University of Michigan

2003-present Member, Center for Social Epidemiology and Population Health, University of Michigan

2003-2011 Director, Public Health Genetics Program, School of Public Health, University of Michigan

2003-2011 Co-Director, Michigan Center for Genomics and Public Health, University of Michigan

2007-present Member, Center for Integrative Approaches to Health Disparities (CIAHD), University of Michigan

2015-present Associated Faculty Member, Center for Midlife Science, University of Michigan

## **GRANT SUPPORT**

*Current*

National Institutes of Health (U01 AG009740), D. Weir, P.I., S. Kardia, P.I. of subcontract "Health and Retirement Study (YRS 29-34)," 01/01/18-12/31/23

National Institutes of Health, A. Stern, P.I., S. Kardia, Co-I, "Demographic Patterns of Eugenic Sterilization in Five U.S. States: Mixed Methods Investigation of Reproductive Control of the 'Unfit,'" 07/01/21-06/30/24

National Institutes of Health, J. Platt, P.I., S. Kardia, Co-I, "Public trust of artificial intelligence in

the precision CDS health ecosystem,” 07/01/21-06/30/25

Bright Focus Foundation, J. Lee, P.I., S. Kardia, Co-I, “Expanding and Enhancing LASI-DAD for Better Understanding of AD and Dementia,” 10/01/20-09/30/2026

*Previous*

National Institutes of Health (R01 AG05540601), K. Bakulski, M.P.I, E. Ware, M.P.I., S. Kardia, Co-I., “Characterizing Disparities in Late-onset Alzheimer’s Disease Risk through Polygenic Risk and Epidemiologic Factors in the Health Retirement Study,” 09/15/17-05/31/21

National Institutes of Health, J. Lee, P.I., S. Kardia, Co-I, “Harmonized Diagnostic Assessment of Dementia (DAD) for Longitudinal Aging Study of India (LASI),” 09/15/15-05/31/21

National Institutes of Health (R25 AG053227), J. Faul, M.P.I., S. Kardia, M.P.I., “Genomic Analysis for Social-Behavioral Scientists,” 09/15/16-05/31/21

National Institutes of Health (U01 AG017719), S. Harlow, P.I., S. Kardia, Co-I., “SWAN Repository IV,” 09/15/16-05/31/21

National Institutes of Health (RF1 AG05565401), J. Faul, P.I., S. Kardia, Co-I., “Identifying Modifiable Aspects of Gene-by-environment Interplay in Later-life Cognitive Decline,” 09/15/17-06/30/22

State of Michigan Department of Health and Human Services (MA 20200032-007 – E20204709-00 – Project CY), “MI Safe Start Map Enhancements,” 9/1/20-12/31/20

State of Michigan Department of Labor and Economic Opportunity (#LEO-UM Covid Alert), S. Kardia, P.I., “COVID-19 Early Detection and Regional Epidemic Alert System: MI Symptoms App & MI Safe Start Map,” 07/01/20-12/31/20

National Institutes of Health (R01 CA214829), S. Kardia, P.I., “The Lifecycle of Health Data: Policies and Practices,” 02/01/18-1/31/22

National Institutes of Health (R01 HL122684), S. Ganesh, P.I., S. Kardia, Co-I., “Genetic studies of the impact of hematologic traits on cardiovascular disease,” 08/10/15-04/30/20

National Institutes of Health (R21 HG009205), A. Stern, P.I., S. Kardia, Co-I., “Demographic Patterns of Eugenic Sterilization in Three U.S. States: Mixed Methods Investigation of Reproductive Control of the ‘Unfit’,” 09/21/18-06/30/21

National Institutes of Health (R01 HL133221), J. Smith, P.I., S. Kardia, Co-I., “Epigenetics of Arteriosclerosis in African American Hypertensive Sibships,” 07/01/16-04/30/20

National Institutes of Health, J. Smith, P.I.; S. Kardia, Co-I., “A Social Epigenomic Approach to

Health Disparities in Cardiovascular Risk Factors," 04/01/18-01/31/22

National Institutes of Health (P60 MD002249), C. Mendes de Leon, P.I., P.I.; S. Kardia, Co-I., "Michigan Center for Integrative Approaches to Health Disparities (CIAHD)," 09/01/07-08/31/17

National Institutes of Health (R03 AG048806), J. Faul / J. Smith, P.I., S. Kardia Co-I., "Interplay of Genetic & Socioeconomic Predictors of Memory Decline in Older Adults," 09/30/14-05/31/17

National Institutes of Health (R01 HD067264), S. Kardia, P.I., "Linking Community Engagement Research to Public Health Biobank Practice," 12/20/10-11/30/16

National Institutes of Health (R03 AG046389) S. Kardia, P.I., "Genetic and Psychosocial Predictors of Blood Pressure and Body Mass Index," 09/30/13-06/30/16

National Institutes of Health (R01 HL101161), A. Diez-Roux, P.I.; S. Kardia Co-I, "Stress, Gene-Environment Interaction and Cardiovascular Disease, 06/15/10-06/30/15

National Institutes of Health (R01 HL086694), A. Chakravarti, P.I.; S. Kardia, P.I., University of Michigan subcontract, "Genome-wide Association Analysis in Essential Hypertension," 06/01/14-05/31/15

National Institutes of Health (RC4 AG039029), D. Weir P.I.; S. Kardia, P.I., subcontract "Expanding a National Resource for Genetic Research in Behavioral and Health Science," 09/30/10-08/31/14

National Institutes of Health (R01 DK077950) J. Lieske P.I., S. Kardia, P.I., University of Michigan subcontract, "Genetic Determinants of Urine Lithogenicity" 06/01/11-2/28/14

National Institutes of Health (R01 NS041558), S. Turner, P.I.; S. Kardia, P.I., University of Michigan subcontract, "Genetics of Microangiopathic Brain Injury," 08/05/09-07/31/13

National Institutes of Health (RC1 HG005439), S. Kardia, P.I., "Informed Consent and Data Access Issues in State-based Biobanks," 09/26/09-01/31/12

National Institutes of Health (R01 HL087660), S. Kardia, P.I., "Genomic Predictors of Arteriosclerosis in Hypertensives," 04/01/07-03/31/12

University of Michigan, George M. O'Brien Renal Core Center (P30 DK081943) "Genomic and Transcriptomic Predictors of Albuminuria in Hypertensives," 8/1/09-2/29/12

National Institutes of Health (RC1 HL100185), S. Kardia, P.I., "Epigenetics Predictors of Common Chronic Diseases," 09/30/09-07/31/12

National Institutes of Health/NCRR (R25 RR022703), T. Citrin, P.I.; S. Kardia, Co-P.I., “Education for Community Genomic Awareness,” (Science Education Partnership Award), 04/01/06-03/31/11

National Institutes of Health (R01 HL085571), P. Peyser, P.I.; S. Kardia, Co-Investigator, “Predictors of Coronary Artery Calcification in African-American Cohorts,” 09/01/07-06/30/11

National Institutes of Health (RC2 AG036495), D. Weir P.I.; S. Kardia, subcontract, “Creating a National Resource for Genetic Research in Behavioral and Health Sciences,” 09/30/09-08/31/11

University of Michigan, Ethics in Public Life Research Grants, “Ethical Deliberations on the Michigan Neonatal Biobank” S. Kardia P.I., 5/1/09 -4/30/10

University of Michigan, Center for Local, State, and Urban Policy (CLOSUP) Gerald R. Ford School of Public Policy. Kardia P.I., “Informing the Michigan Neonatal Biotrust: Policy Analysis for a Public, Population-based Biobank” 5/1/09 -4/30/10

Pan American Health Organization (PAHO), S. Kardia, P.I., “Translating ‘Measuring Health Disparities’ into Spanish and Portuguese,” 07/01/08-04/30/10

National Institutes of Health (R24 HD047861), G. Kaplan, P.I.; S. Kardia, P.I. Gene-Environment Core, “Michigan Interdisciplinary Center on Social Inequality, Mind & Body,” 09/27/04-08/31/10

National Institutes of Health (U01 HL077101), G. Dorn, P.I.; S. Kardia, P.I., Biostatistics Core, “Genetic and Molecular Signaling in Heart Failure, SCCOR” 02/22/05-12/31/09

Associations of the School of Public Health/CDC (S1957-21/23), T. Citrin, P.I.; S. Kardia, Co-P.I., “Center for Public Health and Community Genomics,” 09/01/05-08/31/09

National Institutes of Health (R01 HL075794), I. Kullo, P.I.; S. Kardia, P.I. of subcontract, “Biomarkers for Peripheral Arterial Disease,” 09/22/03-08/31/08

National Institutes of Health (U01 HL054481), E. Boerwinkle, P.I.; S. Kardia, P.I. of subcontract, “The Family Blood Pressure Program (GENOA Network),” 09/30/05-8/31/08

National Institutes of Health (R01 HL68737), S. Kardia, P.I., “Genetic Predictors of Incident CVD,” 03/05/02-12/31/07

National Institute of Health/NHLBI, C. Sing, P.I.; S. Kardia, Co-Investigator., “Modeling DNA Diversity in Reverse Cholesterol Transport,” 06/01/03-05/31/07

National Institute of Health (AG12975), M. Haan, P.I.; S. Kardia, Co-Investigator, “Epidemiology of Functional Status in Elderly Hispanics,” 09/01/03-03/31/07

National Science Foundation (BCS 0525011), T. Citrin, P.I.; S. Kardia, Co-P.I., "Building a Research Community on Genetics and Racial/Ethnic Identity," 09/01/05-03/31/07

University of Michigan President's Ethics in Public Life Initiative, S. Kardia, P.I., "When Faith Meets Science: An Evolving Dialogue on New Choices and New Technologies," 09/01/06-12/31/06

Associations of the School of Public Health/CDC (S3204-23/23), S. Kardia, P.I., "Predictors of Blood Pressure in Hypertensives," 10/01/03-09/30/06

National Institutes of Health (U01 HL72524), D. Arnett, P.I.; S. Kardia, P.I. of U of M subcontract, "Genetic and Environmental Determinants of Triglycerides," 09/30/02-08/31/06

National Institutes of Health (R01 HL46292), P. Peyser, P.I.; S. Kardia, Co-Investigator, "Epidemiology of Coronary Artery Calcification," 04/16/91-02/28/06

National Institute of Health (R01 HL65234), J. Moore, P.I.; S. Kardia, P.I., U of M subcontract, "Genetic Architecture of Plasma T-PA and PAI-1," 09/30/00-07/31/05

National Institute of Health (U01 HL54457) S. Kardia, P.I., "Genetic Determinants of High BP in Three Racial Groups (NETWORK)," 09/01/00-06/30/05

American Heart Association (0130567Z) S. Kardia, P.I., "New Methods for Understanding the Genetic Architecture of Reverse Cholesterol Transport," 07/01/01-06/30/04

National Institute of Health (U19 CA84953) S. Hanash, P.I.; S. Kardia, Co-P.I., Biostatistics Core, "Toward a Molecular Classification of Tumors," 09/30/99-03/29/04

National Institute of Health (R01 CA84982) S. Hanash, P.I.; S. Kardia, Co-Investigator, "Proteomic Biomarker Laboratory," 09/30/99-03/29/04

University of Michigan, Institute of Gerontology Pilot Grant, S. Kardia P.I., "Genetic Epidemiology of Type 2 Diabetes and Vascular Complications in Elderly Mexican-Americans," 07/01/02-06/30/03

National Institute of Health (R01 HG01881) T. Jayaratne, P.I.; S. Kardia, Co-Investigator, "Beliefs among Whites and African-Americans about genetic causes for gender, class, and race differences: Socio-political and educational implications," 07/01/99-06/30/02

University of Michigan Life Sciences and Human Values Pilot Grant, S. Kardia, P.I., "Avenues and obstacles to translating upstream genetic knowledge into downstream public health practice," 03/01/01-02/18/02

University of Michigan Rackham Faculty Grant, S. Kardia, P.I., "Genomic Sharing in Affected and Unaffected Sibs," 11/01/99-10/31/00

*Consultant for*

C. McBride, P.I., "Multiplex Genetic Susceptibility Test," NHGRI, 05/01/06-04/30/07

S. Turner, P.I., "Genetics of Chronic Kidney Disease," Mayo Clinic 02/22/06-01/31/11

A. Shields, P.I., "Genetics, Vulnerable Population and Health Disparities," Harvard University, 09/01/04-07/31/07

O. Pomerleau, P.I., "Candidate Genes for Smoking in Related and Unrelated Individuals," University of Michigan, 08/15/03-04/30/08.

## **HONORS AND AWARDS**

1985-1988 National Institutes of Health Genetics Training Grant Fellowship

1985-1988 Thorneau Molecular Genetics Award

1989-1990 Horace Rackham Predoctoral Fellowship, University of Michigan

1990 Horace Rackham Thesis Grant, University of Michigan

2001 American Heart Association, Scientist Development Award Grant

2017 Millicent W. Higgins Collegiate Professorship, University of Michigan

## **TEACHING ACTIVITIES**

*University of Michigan*

1988-1989 Medical School, Lecturer in Human Genetics for the Office of Minority Affairs Pre-Matriculations Program

1994 College of Literature, Science, and the Arts, Psychology/Women's Studies 401(481) "Genes and Gender"

1997-1998 School of Public Health Summer School Program, "Introduction to Public Health Genetics" (Epidemiology 758)

1999-2003 School of Public Health "Strategies and Uses of Epidemiology" (Epidemiology 503, ~175 students/term)

2001 School of Public Health, "Genetics in Epidemiology" (Epidemiology 516, ~30 students/term)

2001-2006	School of Public Health Summer School Program, “Introduction to Genetics in Epidemiology” (Epidemiology 773)
2003-2009	School of Public Health, “Applications in Public Health Genetics” (Epidemiology 513, ~30 students/term)
2005	“Public Health at the Crossroad of Science and Social Values,” Telluride Association Summer Program (TASS 102)
2005-2009	School of Public Health, “Advanced Genomic Epidemiology” (Epidemiology 817)
2010-2011	School of Public Health, “Introduction to Genetics in Public Health” (Epidemiology 515, ~50 students/term)
2010-2012	School of Public Health, “Critical Appraisal of Epidemiologic Studies” (Epidemiology 811)
2012-2015	School of Public Health, online offering of “Strategies and Uses of Epidemiology” (Epidemiology 503-881, ~40 students/term online)
2015	School of Public Health, “Readings in PharmacoEpidemiology” (Epidemiology 624, ~17 students/term)
2011-2018	School of Public Health, “Strategies and Uses of Epidemiology” (Epidemiology 503, ~250 students/term)
2019-present	School of Public Health, ‘Population Health’ (PubHlth 515, ~40 students/term)

## **STUDENTS MENTORED**

### *Doctoral Students (Current)*

Crowe, Christopher (Epidemiology)

### *Doctoral Students (Previous)*

Fingerlin, Tasha (Epidemiology) Ph.D. Thesis Title: “Applications of Association and Linkage Methods in Complex Traits,” defended June 2003. Current position: Associate Professor at University of Colorado

Brandt, Mary Grace (Epidemiology) Ph.D. Thesis Title: “Public Health Genetics Challenges – Scientific and Social,” defended February 2004. Current position: State of Michigan, Department of Community Health

Cote, Michele (Epidemiology) Ph.D. Thesis Title: "Early Onset Lung Cancer: Racial Differences in Familial Aggregation, Genetic Polymorphisms and Survival," defended February 2004. Current position: Associate Professor at Karmanos Cancer Institute

Levin, Albert (Epidemiology) Ph.D. Thesis Title: "Detecting Chromosomal Regions of Aberrant Gene Expression," defended November 2004. Current position: The Henry Ford Health System

Meyers, Kristen (Epidemiology) Ph.D. Thesis Title: "Genetic Architecture of Echocardiographically Determined Measures of Left Ventricular Remodeling in African-Americans of the Genetic Epidemiology Network of Arteriopathy (GENOA) Study," defended April 2009. Current position: Global Patient Safety Research Scientist - Pharmacoepidemiology at Eli Lilly and Company

Kelly, Reagan (Bioinformatics) Ph.D. Thesis Title: "The Development and Application of a Risk Index to Predict the Individualized Chronic Disease Risk," defended October 2009. Current position: Bioinformatician, ICF International

Greene, Michael Todd (Epidemiology) Ph.D. Thesis Title: "Social and Biological Predictors of Blood Pressure in Hypertensives," defended September 2009. Current position: Research Investigator, University of Michigan Health Systems

Smith, Jennifer (Epidemiology) Ph.D. Thesis Title: "The Genetic Architecture of Leukoaraiosis and Cognitive Function" defended December 2010. Current position: Assistant Professor, University of Michigan School of Public Health, Department of Epidemiology

Wu, Chun-Yi (Epidemiology) Ph.D. Thesis Title: "The Genetics of Blood Pressure and Body Mass Index: The Tale of two Major Risk Factors," defended November 2012. Current position: Research Analyst, University of Michigan, Department of Internal Medicine

Zagel Lazarus, Alicia (Epidemiology) Ph.D. Thesis Title: "Unraveling the Role of Epigenetics in Aging and Chronic Disease," defended February 2013. Current position: Biostatistician, Department of Orthopedic Surgery, Stanford University

Bragg-Gresham, Jennifer (Epidemiology) Ph.D. Thesis Title: "Genetic Insights into Aging and Age-Related Diseases among Varied Pedigree Structures," defended March 2013. Current position: Assistant Research Scientist, Nephrology/Internal Medicine, Kidney Epidemiology and Cost Center (KECC) University of Michigan School of Public Health

Payne, Erin (Epidemiology) Ph.D. Thesis Title: "Genetic studies of salivary cortisol profiles and their influence on chronic disease risk factors," defended March 2013. Current position: Healthcare Data Analyst, Northrop Grumman

Stenzel, Stephanie (Epidemiology) Ph.D. Thesis Title: "Genome-wide approaches to identifying the etiologies of complex diseases: applications in colorectal cancer and congenital heart disease," defended June 2013. Current position: Assistant Member of Cancer

## Epidemiology at Moffitt Cancer Center

Platt, Jodyn (Health Services Organization and Policy) Ph.D. Thesis Title: "Public Trust in Health Information Systems: A Strong Fabric or the Emperor's New Clothes?," defended October 2014. Current position: Assistant Professor, Department of Learning Health Sciences, School of Medicine, University of Michigan

Sheth, Neha (Epidemiology) Ph.D. Thesis Title: "Investigation of the Relationship of Statins Medication Use, Fasting Blood Glucose Levels and Type 2 Diabetes Mellitus," defended October 2014. Current position: Executive Director, Benefit/Risk and Risk Management Global Head, Risk Management, Global Pharmacovigilance, Astellas Pharma US, Inc.

Brown, Kristen (Epidemiology) Ph.D. Thesis Title: "Getting 'Under the Skin': Human Social Genomics in the Multi-Ethnic Study of Atherosclerosis," defended April 2017. Current Position: Post Doctoral Fellow, Emory University

Kho, Minjung (Epidemiology) Ph.D. Thesis Title: "The Genetics of Sodium and its influence on Blood Pressure" defended March 2018. Current Position: Research Area Specialist, Department of Epidemiology.

Li, Wenchao (Epidemiology) Ph.D. Thesis Title:

## INVITED PRESENTATIONS

"Apolipoprotein E Genotype and Gender Influence the Regression of Lipid and Apolipoprotein Levels on Concomitants in the Population at Large," The American Society of Human Genetics, 40<sup>th</sup> Annual Meeting, Baltimore, MD, November 11-15, 1989

"Systems Analysis of Sodium Excretion and Renal Hemodynamics," The Second Systems Science Symposium, Tampa, FL, August, 1992

"Linkage Analysis, Short Course on Molecular Diagnostics, Counseling, and the Human Genome Project," University of Michigan, August, 1992

"Genetics of Common Diseases," The Medical University of South Carolina, Department of Biostatistics, Epidemiology, and Systems Science, March, 1993

"Apolipoprotein E Genotype as a Predictor of Presence of Coronary Artery Calcification," The American Society of Human Genetics 45<sup>th</sup> Annual Meeting, Minneapolis, MN, October 24-28, 1995

"Beyond the Baconian, Mendelian, Cartesian Paradigm: Genetics after the Human Genome Project," The European Research Conference on Inherited Disorders and their Genes in Different European Populations, San Feliu de Guixols, Spain, November 9-10, 1995

“Genetic Architecture of Common Complex Diseases: Lessons from the Studies of the Apolipoprotein E Polymorphism,” The Medical University of South Carolina, Department of Medicine, January, 1996

“A Search for Functional Mutations in the Lipoprotein Lipase Gene Region that Influence Quantitative Intermediate Risk Factors for Coronary Artery Disease,” The American Society of Human Genetics 46th Annual Meeting, San Francisco, CA, October 30-November 3, 1996

“Contributions of an Evolutionary Perspective to Studying the Genetic Architecture of Susceptibility to Cardiovascular Disease,” Conference on the Evolution of Health and Disease, Sion, Switzerland, April, 6-12, 1997

“Genetic Epistemologies: A Window into the Complexity of Gene-Gender Studies,” Symposium on Genes and Gender, Ann Arbor, MI, September 30, 1999

“Where Have We been and Where are We Going,” Conference on Complexity Research and Biotechnology in Agriculture and Medicine, Bozeman, MT, October 5-10, 1999

“An Application of the Combinatorial Partitioning Method to Identify Genes that Predict Blood Pressure Levels,” The American Society of Human Genetics Meetings, San Francisco, CA, October, 1999

“Candidate Gene Studies in Cardiovascular Disease,” Banbury Conference, Genetic Epidemiology of Common Diseases, Cold Spring Harbor, NY, June 11, 2000

“The Combinatorial Partitioning Method,” The 11th Annual Symposium on Combinatorial Pattern Matching, Montreal, Canada, June 21-23, 2000

“Identifying Combinations of Genes and Environments that Influence Risk of Hypertension,” Department of Human Genetics, University of Pittsburgh, July 6, 2000

“An Application of the Combinatorial Partitioning Method to Identify Gene-Gene and Gene-Environment Combinations that Predict Blood Pressure Levels,” The Genetics of Experimental and Human Hypertension Symposium, Medical College of Ohio, August 17-18, 2000

“Untangling the Complex Genetic Architecture of Coronary Artery Disease,” Public Health Genetics Symposium, University of Michigan, September 22, 2000

“Neural Networks, Regression Trees, and Other Crazy Approaches,” The Modeling and Analysis of Genome-Quantitative Phenotype Relationships Conference, University of Michigan, November 3-4, 2000

“Genetics in Public Health and Medicine in the Community,” Christiana Care, Delaware, December 7, 2000

“The Human Genome Project,” University of Michigan Alumni Association of Delaware, Wilmington, DE, May 14-15, 2001

“Gene Expression Profiles of Lung Adenocarcinoma,” The Vanderbilt Neurogenomics Conference, Vanderbilt University, Nashville, TN, May 22, 2001

“What is Inherited?” Joint Congress of Epidemiology, Toronto, Ontario, Canada, June 13-16, 2001

“Lessons from the Genetic Architecture of CVD,” American Diabetes Association’s 61<sup>st</sup> Scientific Sessions, Philadelphia, PA, June 22-26, 2001

“Understanding the Genetic Architecture of Cardiovascular Disease,” McDermott Center for Human Growth & Development Human Genetics Seminar, Dallas, TX, November 5, 2001

“Gene Expression Profiling of Human Lung Adenocarcinoma,” Center for Statistical Genetics, University of Michigan, December 5, 2001

“What is Public Health Genetics?,” University of Michigan, School of Public Health, April 11, 2002

“Family-Centered Approaches to Understanding and Intervening in Coronary Heart Disease,” Family History for Public Health and Preventative Medicine Workshop, CDC Genomics and Disease Prevention, Decatur, GA, April 30-May 2, 2002

“The Old and New Pharmacogenetics and its Applications to Populations,” Michigan Statewide Genetics Symposium, Population Screening Across the Lifespan, Lansing, MI, June 7, 2002

“Analysis Strategies for Tumor Gene Expression Profiles,” Complex Disease Genetics Visiting Scholars Series, University of Pennsylvania, Philadelphia, PA, September 19, 2002

“Where has Genetic Determinism been and Where is it Going?” Biotechnology and Complexity in Agriculture and Medicine, Bozeman, MT, October 6-10, 2002

“Family-Centered Approaches to Understanding and Intervening on Coronary Heart Disease,” American Public Health Association 130<sup>th</sup> Annual Meeting and Exposition, Philadelphia, PA, November 9-13, 2002

“Gene-Gene and Gene-Environment Interactions in Cardiovascular Disease,” Michigan Department of Community Health, Lansing, MI, January 16, 2003

“Gene-Environment Interactions in Cardiovascular Disease,” Center for Human Growth and Development, University of Michigan, Ann Arbor, MI, March 19, 2003

“Genetics of Hypertension,” University of Michigan Life Sciences, Values, & Society Program,

Ann Arbor, MI, March 30, 2003

“Chromosomal Patterns of Gene Expression,” Bioinformatics Seminar Series, Bioinformatics Department, University of Michigan, Ann Arbor, MI, April 17, 2003

“The Human Genome & Heredity,” Six Weeks to Genomic Awareness for Public Health Professionals, Michigan Department of Community Health, Lansing, MI, May 13, 2003

“Genes in Populations,” Six Weeks to Genomic Awareness for Public Health Professionals, Michigan Department of Community Health, Lansing, MI, May 19, 2003

“Gene-Environment Interactions,” Six Weeks to Genomic Awareness for Public Health Professionals, Michigan Department of Community Health, Lansing, MI, June 9, 2003

“Integrating Biology into Epidemiology of Cardiovascular Disease,” 36<sup>th</sup> Annual Meeting of the Society for Epidemiologic Research, Atlanta, GA, June 11-14, 2003

“The Human Genome: A Review of Genetic Concepts,” Center for Human Growth & Development, University of Michigan, Ann Arbor, MI, September 16, 2003

“Antihypertensive Pharmacogenetics,” 57<sup>th</sup> Annual Fall Conference of the Council for High Blood Pressure Research in Association with the Council on Kidney in Cardiovascular Disease, Washington, DC, September 24, 2003

“Genetics: How Family History Fits with Early Identification or Risk and the Need of Preventative Action,” 16<sup>th</sup> Great Lakes Regional Cardiovascular Health Conference, Chicago, IL, December 7-9, 2003

“Genetics and Public Health,” University of Michigan Executive Masters Program in Health Management and Policy, Ann Arbor, MI, February 6, 2004

“What Would You Do with a 400,000 SNP Case-Control Study?,” Keynote Speaker, 22<sup>nd</sup> Annual Epidemiologic Research Exchange, University of Colorado Health Sciences Center, Colorado State University, Denver, CO, March 12, 2004

“Genetics of Cardiovascular Disease,” 2004 Annual Michigan Genetics Symposium, Department of Medical Genetics, Henry Ford Health System, Detroit, MI, May 7, 2004

“Exploring the Role of Genomics in Chronic Disease Prevention,” 2004 Chronic Disease Prevention and Management Conference, Steps to a Healthier Michigan, Lansing, MI, May 11, 2004

“Introduction to Genomics and Public Health,” Genomics and Chronic Disease: Project Officer and Program Consultant Workshop, Centers for Disease Control, Atlanta, GA, June 4, 2004

“Genetic Testing,” Genomics and Chronic Disease: Project Officer and Program Consultant

Workshop, Centers for Disease Control, Atlanta, GA, June 4, 2004

“Cardiovascular Health and Genomics,” Genomics and Chronic Disease: Project Officer and Program Consultant Workshop, Centers for Disease Control, Atlanta, GA, June 4, 2004

“Cardiovascular Disease Genetics,” Medical Resident Lecture Series, Oakwood Hospital and Medical Center, Dearborn, MI, September 1, 2004

“The Human Genome Project and the African American Community,” 2004 Zeta Phi Beta Sorority, Michigan State Meeting, Ann Arbor, MI, September 18, 2004

“Bridging Genomics and Population Health,” Conference on Implications of Genomics for Public Health, Institute of Medicine, National Academy of Sciences, Washington, DC, October 7-8, 2004

“Unprecedented Choices,” Evidence Based, Opinion Based and Real World Agriculture & Medicine Workshop, Bozeman, MT, October 10-13, 2004

“What is the Role of Health Behavior and Health Education in Public Health Genetics?” The Challenge Ahead: Implications of Genomics for Health Behavior and Health Education Symposium, Public Health Genetics Program, University of Michigan, October 14-15, 2004

“Our Genetic Future: Dream or Nightmare?” Undergraduate Research Opportunity Program, Biotechnology Education on Campus (BEC), University of Michigan, Ann Arbor, MI, October 27, 2004

“Bridging Genomics and Population Health,” Centers for Disease Control Public Health Genomics Day, Atlanta, GA, January 27, 2005

“The Ins and Outs of Genetics and Ethnicity,” Building Interdisciplinary Research Careers in Women’s Health (BIRCH) K12 Career Development Seminar, University of Michigan, Ann Arbor, MI, April 5, 2005

“The Human Genome Project,” The 2005 Rho Delta Zeta Sorority Incorporated Michigan State Meeting, Ann Arbor, MI, April 17, 2005

“Genomics and the Public’s Health in the 21<sup>st</sup> Century: Overview of IOM Committee Report,” University of Washington, Public Health Genetics Institute, Seattle, WA, June 1, 2005

“Genomic Priorities for Improving the Public’s Health,” University of Michigan, Tobacco Research Network Conference on Genetic Research on Smoking, Ann Arbor, MI, June 9, 2005

“Measuring Genetic Variations in Population Studies,” Institute of Medicine Workshop on Assessing Interactions between Social, Behavioral, and Genetic Factors, Washington, DC, June 16-17, 2005

“The Genetics of Race and Ethnicity,” Institute of Medicine Workshop on Assessing Interactions between Social, Behavioral, and Genetic Factors, Washington, DC, June 16-17, 2005

“Future of Genomics in Cancer,” Practical Application of Cancer Genetics in Public Health Round Table, Michigan Department of Community Health and Michigan Cancer Genetics Alliance, June 24, 2005

“Reflections on the Social and Regulatory Implications of a Large Genetic Cohort Study,” Secretary's Advisory Committee on Genetics Health and Society, Washington, DC, October 19, 2005

“Gene-Diet Interactions in Cardiovascular Disease,” Diet & DNA; The Promises and Challenges of Nutrigenomics, Michigan State University, East Lansing, MI, November 4, 2005

“Genetics, Race and Ethnicity,” Towards a Synthesis of Genetic, Social and Political Perspectives, Institute for Mind and Biology, University of Chicago, Chicago, IL, November 29, 2005

“What Does Genetics Tell Us About Race?” Towards a Synthesis of Genetic, Social and Political Perspectives, Rainbow/PUSH Headquarters, Chicago, IL, November 29, 2005

“Common Ground at the Intersection of Science and Spirituality,” Science and Spirituality: Searching for Common Ground, University of Michigan Program in Creativity and Consciousness Studies, University of Michigan, Ann Arbor, MI, December 1, 2005

“Sources of Heterogeneity,” Predictive Models of Cancer Susceptibility: Integrated Strategies, National Cancer Institute, Newport Beach, CA, December 6, 2005

“What Do Scientists Do? The Nuts and Bolts of the Scientific Process,” The Ann Arbor Reads Program, Ann Arbor District Library, Ann Arbor, MI, January 23, 2006

“Outside-In and Inside-Out from the Genetics Perspective,” NSF Building a Research Community on Genomics and Racial/Ethnic Identity Seminar, University of Michigan, Ann Arbor, MI, February 7, 2006

“Genetics of Cardiovascular Disease,” Surveyor of Molecular Epidemiology, Michigan State University, East Lansing, MI, March 28, 2006

“Genetic Epidemiology of Cardiovascular Disease,” 5<sup>th</sup> Annual Michigan Epidemiology Conference, University of Michigan, Ann Arbor, MI, March 31, 2006

“Leaping the Chasm Between Science and Public Engagement,” Genetic Diversity and Science Communication Workshop, Toronto, ON, April 28, 2006

“Gene-Diet Interactions in Cardiovascular Disease,” Michigan Dietetic Association, 2006 Annual Conference, Livonia, MI, May 18-20, 2006

“Applications of Genomics to Public Health Challenges,” National Human Genome Research Institute, Bethesda, MD, May 22, 2006

“Genomics and Public Health: Opportunities and Challenges,” Connecticut Genomics Action Plan Advisory Committee, Connecticut Department of Public Health, Hartford, CT, May 31-June 2, 2006

“Gene-Environment Interactions and Cardiovascular Disease,” Enhancing Capacity to Study Gene-Environment Interactions in Complex Traits: Implications for Health Disparities, Harvard University, Cambridge, MA, June 21, 2006

“Academic-Practice Collaborations in Public Health Genomics,” University of Michigan, School of Public Health Summit between Governmental Public Health and Academia, Ann Arbor, MI, September 25, 2006

“Genetics and Disparities,” Achieving Equity in Genetic Policy Through Diversity in Decision Making, Genetics Equity Network Workshop, Howard University, Washington, DC, October 5, 2006

“Equity in Genetics Overview,” CDC Prevention Research Centers NCC Annual Business Meeting, Flint, MI, October 19, 2006

Genomics at the University of Michigan School of Public Health,” Michigan Public Health Institute Board of Directors Meeting, University of Michigan School of Public Health, Ann Arbor, MI, February 6, 2007

“GEMINI; Genetics, Ethics and Meaning Initiative,” Urban Research Council Board Meeting, Detroit, MI, March 14, 2007

“The Pain and the Joy of Genomics – Can We See Humans as Both Scientific and Spiritual?” Interfaith Round Table of Washtenaw County, Ann Arbor Public Library, Ann Arbor, MI, March 14, 2007

“New Visions in Public Health Genetics,” NHGRI DIV Seminar Series, Bethesda, MD, April 11-12, 2007

“Encountering GEMINI – Genetics, Ethics and Meaning Initiative,” National Conference for Community Justice Professionals Dialogue Group on Genetic Frontiers, Beaumont Hospital, Royal Oak, MI, April 23, 2007

“From Gene Discovery to Individual and Population Health Practice,” Robert Wood Johnson Health Society Scholars Annual Meeting, Chicago, IL, May 2, 2007

“Gene Environment Interactions and Health Disparities,” WEACT Conference: Genetics and Justice Symposium. New York, NY, September 23-24, 2007

“What is Genomics?” Midwest Community Genomics Forum, Flint, MI, October 12, 2007

“The Human Genome Project and its Implications,” Mount Nittany Medical Center Family Medicine Seminar Series, State College, PA, November 15-16, 2007

“We’re not in Kansas Anymore,” Translating “ELSI”: Global Perspectives in Research on the Ethical, Legal and Social Implications of Human Genome Research, Cleveland, OH, May 1-2, 2008

“Population Stratification and Screening,” NHGRI Seminar Series, Applications of Genomics to Public Health Challenges, Bethesda, MD, May 21-22, 2008

“Evidence Issues and Standards in Genomics,” Institute of Medicine Roundtable on Translating Genomic-Based Research for Health, Washington, DC, October 6-7, 2008

“Early ARIC analysis: The Michigan experience,” FBPP-FEHGAS Meeting, University of Texas, Huston, TX. January, 26-27, 2009

“Epidemiology in the 21<sup>st</sup> Century,” 2008-2009 Young Epidemiology Scholars (YES), The Keck Center of the National Academies, Washington, DC, April 17-19, 2009

“Concepts of Personal and Collective Identity: Patterns of Pain or Cycles of Gain,” Discovering Openness in Health Systems, Genetic Alliance Annual Conference in Metro Washington DC, July 17-18, 2009

“Epidemiology in the 21<sup>st</sup> Century,” 44<sup>th</sup> Graduate Summer Session in Epidemiology, University of Michigan School of Public Health in Ann Arbor, MI, July 12-31, 2009

“The Public’s Perceptions Related to Uses of Newborn Screening Dried Blood Spots,” 12<sup>th</sup> Annual Meeting of National Coalition for Health Professional Education in Genetics (NCHPEG), Bethesda, MD, September 23-24, 2009

“Risk Prediction of Chronic Disease Outcome using Ensemble Modeling Methods”, University of Washington, St Louis, MO, November 11-12, 2009

“GWAS Studies: Behind the Scenes,” National Institute on Aging (NIA), National Institute of Health (NIH), Meeting of the Health and Retirement Study Data Monitoring Committee (DMC) Washington, DC, 2009

"Genome-wide Association Study of the Health and Retirement Cohort," Cambridge, MA, December 3-4, 2009

"Newborn Screening: Public Health, Private Health, Population Health," NBS Summit: Envisioning the Future of Newborn Screening, Bethesda, MD, December 7-8, 2009

"Genetic Epidemiology Network of Arteriopathy GWAS," NHLBI STAMPEED Steering Committee Meeting, Houston TX, December, 8-10, 2009

"Opportunities for broader research," Challenges and Opportunities in Using Newborn Screening Samples for Translational Research: A Workshop," Institute of Medicine, Washington, DC, May 24, 2010

"Genome-wide Association Studies - Opportunities and Challenges," RAND Summer Institute, Santa Monica, CA, July 12-13, 2010

"Panel on Community Engagement in Policy: The Why, What, When and How," GenoCommunity Think Tank: First National Meeting, St. Louis, MO, September 20-21, 2010

"What Can Understanding of Genetics and Biology Bring to the Study and Elimination of Health Disparities?," Center for Integrative Approaches to Heath Disparities 2<sup>nd</sup> Annual Symposium for Junior Investigators, Jackson, MS, September 22, 2010

"Opt-In/Opt-Out," 4<sup>th</sup> National Conference on Genomics and Public Health, Bethesda, MD, December 8-10, 2010

"The Value of a Population-based Tissue Repository," Methods for Promoting Public Dialogue on the Use of Residual Newborn Screening Samples for Research, University of Utah, Salt Lake City, UT, January 20, 2011

"Beyond GWAS," Graduate Institute of Clinical Medical Science, China Medical University, Taiwan, February 2011

"Gene-Environment Interaction in Common Diseases," Graduate Institute of Clinical Medical Science, China Medical University, Taiwan, February 2011

"Genome-Wide Association Studies of Cardiovascular Disease," Graduate Institute of Clinical Medical Science, China Medical University, Taiwan, February 2011

"Epigenetics in Epidemiology Studies," Graduate Institute of Clinical Medical Science, China Medical University, Taiwan, February 2011

"Genetic Influences on Women's Health," The 45<sup>th</sup> Donald W. Gudakunst Memorial Lecture, Dr. MaryFran Sowers Memorial Symposium, University of Michigan, Ann Arbor, MI, October 2011

"Public Health Genetics in the 21<sup>st</sup> Century," Deadly Medicine: Creating the Master Race, Reflections on Deadly Medicine Symposium, University of Michigan, Ann Arbor, MI, March 29, 2011

“Update on the Genomics Data in the Health and Retirement Study,” Trinity College of Dublin, TILDA Scientific Advisory Board, Dublin, Ireland, May 11, 2012

“Building a Biomedical Research Career: Strategy, Sanity and Success,” The Elliot Newman Society Mater of Science in Clinical Investigation and Master of Public Health Programs, The 13<sup>th</sup> Annual Visiting Scholars Day Dinner Keynote Address, Vanderbilt University, Nashville, TN, June 6-7, 2012

“Genotyping of the Health and Retirement Study Update,” National Institute on Aging, Summer (staff) Retreat, Bethesda, MD, June 25-26, 2012

“Importance of Teaching in the Health Sciences,” Center for Research on Learning and Teaching (CRLT), The University of Michigan, Ann Arbor, MI, August 24, 2012

“Genomics Data in the Health and Retirement Study,” National Institute on Aging, Health Retirement Study Data Monitoring Committee Meeting, Washington, DC, September 5-7, 2012

“Unraveling the role of epigenetics in aging and chronic disease,” Interdisciplinary Group Seminar (IGS), University of Michigan, Ann Arbor, MI, October 15, 2012

“Exploring the Michigan BioTrust for Health,” Bio-banking: Uses and Dilemmas, 2012 Common Read Event, University of Michigan, Flint, MI, October 9, 2012

“Genomics Data in the Health and Retirement Study,” HRS Co-Investigators Seminar, University of Michigan, Ann Arbor, MI, October 25, 2012

“Genomic Analysis of Complex Traits,” Population Association of American Annual Meeting, Biomarker Network Meeting, New Orleans, LA, April 10-11, 2013

“Epigenetics and the HRS,” National Institute on Aging HRS Data Monitoring Committee Meeting, Bethesda, MD, April 17-19, 2013

“Genomics in the Health and Retirement Study,” Population Studies Center Speaker Series, Institute for Social Research, University of Michigan, Ann Arbor, Michigan, December 9, 2013

“Public Health in the 21<sup>st</sup> Century,” Center for HealthCare Research and Transformation Policy Fellowship Session, University of Michigan, Ann Arbor, Michigan, February 7, 2014

“Genomics in NHANES,” Guidelines for Returning Individual Results from Genome Research Using Population-Based Banked Specimens, National Academies of Science, Washington, DC, February 10-11, 2014

“Communicating about Genetics with Communities and the Public,” Symposium for Young Investigators sponsored by the Michigan Center for Integrative Approaches to Health Disparities (CIAHD) and the Jackson Heart Study, Detroit, Michigan, May 15, 2014

“Genetic Association Studies,” Expert Meeting on Assessing and Encouraging Interaction between Genetic and Social-Behavioral Models, Institute of Medicine, Washington, DC, August 12-13, 2014

“Flipping the Classroom,” Faculty Learning Community on Flipped Classrooms, Center for Research on Learning and Teaching, University of Michigan, Ann Arbor, MI, October 20, 2014

“The Role of Public Health in Newborn Screening,” Newborn Screening Panel Symposium Livingston Awards, Ann Arbor, MI, March 31, 2015

“Genomics Data in the Health and Retirement Study,” National Institute on Aging, Health Retirement Study Data Monitoring Committee Meeting, Washington, DC, July 30-31, 2015

“Informatics and the Research Enterprise,” University of Michigan, Health Management and Policy Department, Introduction to Health Informatics, Ann Arbor, MI, October 7, 2015

“Epidemiology of High Blood Pressure,” University of Miami, Jamacain Hypertension Research Group, Miami, FL, Nov 19, 2015

“Health Sciences in the 21<sup>st</sup> Century,” Northeastern University, Speaker Series, Boston, MA, April 20, 2016

“Innovation in the Academy,” University of Michigan, Fellows of Future Generations, Emigrant, MT, October 11-16, 2016

“Ethical, Legal, and Social Implications in the Learning Health Systems, University of Michigan, ELSI-LHS Symposium, Ann Arbor, MI, November 18, 2016

“Journeys in Genetics: Epigenomics in Human Health and Disease,” University of Michigan, Certificate Program in Public Health Genetics 20<sup>th</sup> Anniversary Seminar Series, Ann Arbor, MI, January 31, 2017

“Precision Health: Epigenetics and Population Health,” University of Michigan, Florida Seminars, Manalapan, FL, February 6, 2017

“Precision Health: Epigenetics and Population Health,” University of Michigan, Provost’s Advisory Committee: Precision Health Initiative, Ann Arbor, MI, September 8, 2017

“Precision Health: Epigenetics and Population Health,” University of Michigan, Health Sciences Bicentennial Luncheon, Ann Arbor, MI, October 27, 2017

## **COMMITTEE AND ADMINISTRATIVE SERVICE**

### *U-M School of Public Health*

- 1998-2010 Member, Executive Committee for the Interdepartmental Concentration in Public Health Genetics
- 1998-2010 Member, Executive Committee of the Genomic Sciences Training Grant
- 1998-2004 Member, Department of Epidemiology Curriculum Committee
- 1999-2002 Member, Search Committee for Statistical Genetics Positions, Department of Biostatistics
- 2000-2001 Member, School of Public Health Website Executive Committee
- 2000-2006 Member, Executive Committee of the Center for Statistical Genetics
- 2000-2002 Member, Search Committee for Director of the Interdepartmental Concentration in Public Health Genetics
- 2001 Member, Task Force on Academic Conduct
- 2001 Member, Search Committee for Social Epidemiology Faculty
- 2001-present Member, Toxicology Training Grant Program
- 2001-2009 Member, Steering and Planning Committee, Robert Wood Johnson Health and Society Scholars Program
- 2003-2007 Member, Research Council
- 2004-2005 Member, Dean Search Committee
- 2004-2008 Member, Admissions Committee, Department of Epidemiology
- 2004-present Director, Life Sciences and Society Program
- 2005-2007 Member, Informatics and Information Technology Committee
- 2005-2006 Member, Faculty Search Committee, Department of Health Behavior and Health Education
- 2008-2009 Member, Community-Based Public Health Committee

- 2010-2011 Member, Health Informatics Committee
- 2016-present Implementation Lead, Diversity, Equity, and Inclusion Strategic Planning
- 2017-present Member, Digital Measures Implementation Group

*University of Michigan*

- 1999-present Member, Medical Genetics Residency Program, Medical School
- 2001-2004 Member, Cancer Research Committee, Comprehensive Cancer Center
- 2002-2004 Member, Search Committee for Bioinformatics faculty, Institute of Gerontology, Medical School
- 2002-2008 Member, Steering Committee, Center for the Advancement of the Social and Behavioral Sciences, Institute for Social Research
- 2003-2004 Member, Life Sciences, Values and Society Program Advisory Board, Law School
- 2003-2005 Member, Bioinformatics Graduate Affairs Admission Committee, Medical School
- 2004-2005 Member, President's Task Force on Ethics in Public Life
- 2006 Member, Small Grant Proposal Review Committee, Center on Social Inequalities, Mind and Body (MICSIMB)
- 2011- 2014 Member, Conflict of Interest Policy Group
- 2011- 2014 Member, Conflict of Interest Unit Implementation Group
- 2015-2016 Member, Digital Education and Innovation Planning Group
- 2015-present Member, Henry Russel Award and Henry Russel Lectureship Review Committee, Rackham Graduate School
- 2015-present Faculty Liaison, Faculty Professional Development Program on Inclusive Teaching
- 2015-present Member, Learning Health Systems Steering Committee
- 2016-2017 Member, Graduate Employees' Organization (GEO) Advisory Committee
- 2016-present Member, Diversity, Equity, and Inclusion Implementation Leads Group
- 2016-present Member, Poverty Solutions Deans' Advisory Board

- 2016-present Co-Chair, Ethical, Legal and Social Issues Subcommittee, Learning Health Systems Steering Committee
- 2017 Reviewer, School of Information External Review
- 2017-present Member, University Human Resources Advisory Group
- 2017-present Member, Lecturers' Employee Organization (LEO) Advisory Committee
- 2017-present Member, Precision Health Executive Deans' Group
- 2017-present Member, Precision Medicine World Conference 2018 Planning Committee
- 2018-present Member, Interprofessional Education (IPE) Associate Dean's Committee

*State and National*

- 1999 Member, Special Emphasis Panel, Abdominal Aortic Aneurysm Pathogenesis, National Heart, Lung, and Blood Institute
- 1999-present Member, Advisory Board, The Land Institute, Salina, KS
- 2000-2008 Chair, Family Blood Pressure Program, Analysis and Publications Subcommittee, National Heart, Lung, and Blood Institute
- 2001 Member, Special Emphasis Panel, SCORs for Ischemic Heart Disease in Blacks, National Heart, Lung, and Blood Institute
- 2001 Member, Special Review Committee, Program Project Review, National Heart, Lung, and Blood Institute
- 2001 Member, Cancer Research Review Committee, University of Pennsylvania
- 2001-2003 Member, Gene-Environment Interaction Committee, Genetic Disorders Program, Michigan Department of Community Health
- 2001-2004 Member, Gene-Environment Interaction Working Group, National Childhood Study, National Center for Environmental Health, Centers for Disease Control and Prevention
- 2002-2005 Member, Cancer Genetics Network Advisory Committee, State of Michigan Cancer Consortium

- 2002-2006      Grant Reviewer, Framingham DNA Committee, National Heart, Lung, and Blood Institute
- 2002-2007      Member, Family History Group, Centers for Disease Control and Prevention  
2003              Co-Chair, Primary Care Committee for Cardiovascular Health Task Force, Michigan Department of Community Health
- 2003              Reviewer for Pilot and Feasibility Project for Diabetes Research and Training Center, Vanderbilt University
- 2003              Member, Cardiovascular Clinical Research Center Peer Review Committee, Donald W. Reynolds Foundation
- 2003              Member, Winter Vascular Grant Review Board, National Heart, Lung, and Blood Institute
- 2004              Member, Winter Hypertension Program Project Review Board, National Heart, Lung, and Blood Institute
- 2004-2005        Member, Working Group on Future of Genotyping, National Heart, Lung, and Blood Institute
- 2004-2006        Member, Committee on Genomics and the Public's Health in the 21<sup>st</sup> Century, Institute of Medicine of the National Academies
- 2004-2007        Member, Committee on Applications of Toxicogenomics Technologies to Predictive Toxicology, National Research Council, Institute of Medicine of the National Academies
- 2005              Grant Reviewer, International Research Fellowship Program Review Board, National Science Foundation
- 2005-2006        Member, Committee on Assessing Social, Behavioral, and Genetic Interactions, Institute of Medicine of the National Academies
- 2005-2008        Member, Resequencing and Genotyping Review Board, National Heart, Lung, and Blood Institute
- 2005-2008        Member, Multiplex Initiative on Social and Behavioral Research Advisory Board, NHGRI
- 2005-2006        Grant Reviewer, L'Oreal USA Fellowship Program
- 2006              Grant Reviewer, Center for Ecogenetics and Environmental Health Pilot Project, University of Washington

- 2007-2008 Member, Committee to Review the National Childhood Study, Institute of Medicine of the National Academies
- 2007-2008 Member, Michigan Neonatal BioTrust Community Engagement Committee, Michigan Department of Community Health
- 2007-2013 Member, Roundtable on Translating Genomic-Based Research for Health, Institute of Medicine of the National Academies
- 2008-2009 Member, Planning Committee for Workshop on Developing Systems of Evidence Generation, Institute of Medicine of the National Academies
- 2008-2010 Member, Board of Scientific Counselors, Coordinating Center for Health Promotion, Center for Disease Control and Prevention
- 2008-2010 Member, Genetic Alliance Board of Directors, Washington, DC
- 2009 Member, Special Review Panel on Medical Sequencing, NHGRI
- 2009 Member, Special Review Panel on RC1 Challenge Grants, National Heart, Lung, and Blood Institute
- 2009-2010 Editorial Board Member, Genomic Applications in Practice and Prevention Reviews, Centers for Disease Control and Prevention
- 2010 Member, Challenges and Opportunities in Using Newborn Screening Samples for Translational Research, Institute of Medicine of the National Academies
- 2010-2011 Member, New Opportunities for Advancing Behavioral and Social Research on Aging: Adding Information on Single Nucleotides to the Health and Retirement Study Expert Meeting, National Academy of Sciences
- 2010-2012 Member, Roundtable on Translating Genomic-Based Research for Health, Institute of Medicine of the National Academies
- 2011 Member, Special Review Panel on Electronic Medical Records and Genomics (eMERGE), National Human Genome Research Institute
- 2011 Member, Future of Public Health Genomics – Stakeholder Consultation Planning Committee, Office of Public Health Genomics, Centers for Disease Control and Prevention
- 2011 Member, Developing Priorities for Public Health Genomics 2012-2017, Office of Public Health Genomics, Centers for Disease Control and Prevention

- 2012 Member, Special Emphasis Review Panel for Vascular and Hematology, National Institutes of Health
- 2012-2013 Member, Clinical Research Institute Expert Panel for Review of Universal Newborn Screening for Pompe Disease, Duke University
- 2012-2013 Member, Board of Scientific Counselors Site Review: Framingham Heart Study, National Heart, Lung, and Blood Institute
- 2012-2013 Member, Oak Ridge Associated Universities, Pennsylvania Department of Health Performance Reviews
- 2012-2013 Member, Cutting Edge Basic Research Awards (CEBRA) Review, National Institute on Drug Abuse
- 2013 Member Advisory Committee, Genetics and Public Policy Center, Johns Hopkins University
- 2013-2015 Member, National Advisory Council on Aging, Division of Behavioral and Social Research Council, National Institute on Aging
- 2013-2015 Member, Behavior and Social Science of Aging Standing Review Committee, National Institute on Aging
- 2013-present Member, Advisory Committee, Center on Biodemography and Population Health, Andrus Gerontology Center, University of Southern California/University of Los Angeles
- 2014 Member, Issues in Returning Individual Results from Genome Research Using Population-Based Banked Specimens, with a Focus on the National Health and Nutrition Examination Survey, National Research Council, Institute of Medicine of the National Academies
- 2014 Member, Grant Review panel “Empirical Research on Ethical Issues Related to Central IRBs and Consent for Research using Clinical Records and Data”, National Institutes of Health
- 2014 Member, Institute of Medicine, Interaction of Genetic Techniques and Social-Behavioral Models, Committee on Population and the Committee on Behavioral, Cognitive and Sensory Sciences of the National Research Council of the National Academies
- 2015 Member, eMERGE Special Emphasis Grant Review Panel, National Human Genome Research Institute

2015	Grant Reviewer, Pilot Project Review for MiCDA, Michigan Center on The Demography of Aging
2015	Grant Reviewer, Alzheimer's Disease Sequencing Project (ADSP) Replication Phase Analysis Studies (U01), National Institute on Aging
2015	Grant Reviewer, Precision Medicine Coordinating Center Review, National Institutes of Health
2016	Program Reviewer, Department of Epidemiology, University of Washington
2017	Grant Reviewer, Limited Competition: Additional Sequencing for the Alzheimer's Disease Sequencing Project (U01), National Institute on Aging
2017	Grant Reviewer, Limited Competition: Analysis of Data from NIA's Alzheimer's Disease Sequencing Project (U01), National Institute on Aging

## BIBLIOGRAPHY

(Name changed from Reilly to Kardia in 1994)

### *Peer-Reviewed Publications*

1. **Reilly SL**, Kottke BA, Sing CF (1990) The effects of generation and gender on the joint distributions of lipid and apolipoprotein phenotypes in the population at large. *J Clinical Epidemiology* 43(9):921-940. PMID:2213081
2. **Reilly SL**, Ferrell RE, Kottke BA, Kamboh MI, Sing CF (1991) The gender-specific apolipoprotein E genotype influence on the distribution of lipids and apolipoproteins in the population of Rochester, MN. I. Pleiotropic effects on means and variances. *American Journal of Human Genetics* 49(6):1155-1166. PMID:1842218. PMCID: PMC1686446
3. **Reilly SL**, Ferrell RE, Kottke BA, Sing CF (1992) The gender-specific apolipoprotein E genotype influence on the distribution of plasma lipids and apolipoproteins in the population of Rochester, Minnesota. II. Regression relationships with concomitants. *American Journal of Human Genetics* 51(6):1311-1324. PMID:1463013. PMCID: PMC1682931
4. Sing CF, Haviland MB, Templeton AR, Zerba KE, **Reilly SL** (1992) Biological complexity and strategies for finding DNA variations responsible for inter-individual variation in risk of a common chronic disease, coronary artery disease. *Annals of Medicine* 24(6):539-547. PMID:1485951
5. Turner ST, **Reilly SL** (1993) Renal sodium excretion in sons of hypertensive parents. *Hypertension* 22(3):323-330. PMID:8349325

6. Congdon CB, Sing CF, **Reilly SL** (1993) Genetic algorithms for identifying combinations of genes and other risk-factors associated with coronary artery disease. *13<sup>th</sup> International Joint Conference on Artificial Intelligence: AI and the Genome Workshop*, pp 107-117.
7. **Reilly SL**, Sing CF, Savageau MA, Turner ST (1994) Analysis of systems influencing renal hemodynamics and sodium excretion. I. Biochemical Systems Theory. *Integr Physiol Behav Sci* 29(1):55-73. PMID:8018552
8. Sing CF, Zerba KE, **Reilly SL** (1994) Traversing the biological complexity in the hierarchy between genome and CAD endpoints in the population at large. *Clinical Genetics* 46(1):6-14. PMID:7988080
9. **Reilly SL**, Ferrell RE, Sing CF (1994) The gender-specific apolipoprotein E genotype influence on the distribution of plasma lipids and apolipoproteins in the population of Rochester, MN. III. Correlations and covariances. *American Journal of Human Genetics* 55(5):1001-1018. PMID:7977338 PMCID: PMC1918313
10. Turner ST, **Reilly SL** (1995) Fallacy of indexing renal and systemic hemodynamic measurements for body surface area. *Am J Physiol Regul Integr Comp Physiol* 268(4 pt 2):978-988. PMID:7733408
11. Sing CF, Haviland MB, **Reilly SL** (1996) Genetic architecture of common multifactorial diseases. In: *Variation in the Human Genome. Ciba Foundation Symposium No. 197*, London: John Wiley & Sons, pp 211-232. PMID:8827376
12. Moore JH, **Reilly SL**, Ferrell RE, Sing CF (1997) The role of the apolipoprotein E polymorphism in the prediction of coronary artery disease age of onset. *Clinical Genetics* 51(1):22-25. PMID:9084929
13. **Kardia SLR**, Sing CF, Turner ST (1997) The response of renal plasma flow to angiotensin II infusion in a population-based sample and its association with the parental history of essential hypertension. *J Hypertension* 15(5):483-493. PMID:9170000
14. Turner ST, **Kardia SLR** (1997) Relationship between renal plasma flow response to angiotensin II and blood pressure in a population-based sample. *J Hypertension* 15(5):495-502. PMID:9170001
15. Neel JV, Julius S, Weder A, Yamada M, **Kardia SLR**, Haviland MB (1998) Syndrome X: Is it for real? *Genetic Epidemiology* 15(1):19-32. PMID:9523208
16. Fornage M, Amos CI, **Kardia S**, Sing CF, Turner ST, Boerwinkle E (1998) Variation in the region of the angiotensin-converting enzyme gene influences interindividual differences in blood pressure levels in young white males. *Circulation* 97(18):1773-1779. PMID:9603530
17. **Kardia SLR**, Haviland MB, Sing CF (1998) Correlates of family history of coronary artery

disease in children. *J Clinical Epidemiology* 51(6):473-486. PMID:9635996

18. **Kardia SLR**, Haviland MB, Ferrell RE, Sing CF (1999) The relationship between risk factor levels and presence of coronary artery calcification is dependent on *Apolipoprotein E* genotype. *Arteriosclerosis Thrombosis Vascular Biology* 19(2):427-435. PMID:9974428
19. Stengård JH, **Kardia SL**, Tervahauta M, Ehnholm C, Nissinen A, Sing CF (1999) Utility of the predictors of coronary heart disease mortality in a longitudinal study of elderly Finnish men aged 65 to 84 years is dependent on context defined by *Apo E* genotype and area of residence. *Clinical Genetics* 56(5):367-377. PMID:10668927
20. Nelson MR, **Kardia SLR**, Ferrell RE, Sing CF (1999) Influence of apolipoprotein E genotype variation on the means, variances, and correlations of plasma lipids and apolipoproteins in children. *Annals of Human Genetics* 63(4):311-328. PMID:10738543
21. Pomerleau OF, **Kardia SLR** (1999) Introduction to the featured section: Genetic research on smoking. *Health Psychology* 18(1):3-6. PMID:9925039
22. Bray MS, Krushkal J, Li L, Ferrell R, **Kardia S**, Sing CF, Turner ST, Boerwinkle E (2000) Positional genomic analysis identifies the  $\beta_2$ -adrenergic receptor gene as a susceptibility locus for human hypertension. *Circulation* 101(25):2877-2882. PMID:10869257
23. Nelson M, **Kardia SLR**, Sing CF (2000) The combinatorial partitioning method. In: Giancarlo R, Sankoff D (eds): *Combinatorial Pattern Matching, Lecture Notes in Computer Science*. Springer-Verlag Berlin, pp 293-304.
24. Bray MS, Li L, Turner ST, **Kardia SLR**, Boerwinkle E (2000) Association and linkage analysis of the  $\alpha$ -adducin gene and blood pressure. *American Journal of Hypertension* 13(6 pt 1):699-703. PMID:10912756
25. Kelada SN, **Kardia SLR**, Walker AH, Wein AJ, Malkowicz SB, Rebbeck TR (2000) The glutathione S-transferase-mu and -theta genotypes in the etiology of prostate cancer: Genotype-environment interactions with smoking. *Cancer Epidemiology Biomarkers Prevention* 9(12):1329-1334. PMID:11142418
26. **Kardia SLR** (2000) Context-dependent genetic effects in hypertension. *Current Hypertension Reports* 2(1):32-38. PMID:10981124
27. Nelson MR, **Kardia SLR**, Ferrell RE, Sing CF (2001) A combinatorial partitioning method to identify multi-locus genotypic partitions that predict quantitative trait variation. *Genome Research* 11(3):458-470. PMID:11230170. PMCID: PMC311041
28. Margulies EH, **Kardia SLR**, Innis JW (2001) Identification and prevention of a GC content bias in SAGE libraries. *Nucleic Acid Research* 29(12):e60. PMID:11410683. PMCID: PMC55759

29. Klos KL, **Kardia SLR**, Ferrell RE, Turner ST, Boerwinkle E, Sing CF (2001) Genome-wide linkage analysis reveals evidence of multiple regions that influence variation in plasma lipid and apolipoprotein levels associated with risk of coronary heart disease. *Arteriosclerosis Thrombosis Vascular Biology* 21(6):971-978. PMID:11397706
30. Margulies EH, **Kardia SLR**, Innis JW (2001) A comparative molecular analysis of developing mouse forelimbs and hindlimbs using serial analysis of gene expression (SAGE). *Genome Research* 11(10):1686-1698. PMID:11591645. PMCID: PMC311149
31. Giordano TJ, Shedden KA, Schwartz DR, Kuick R, Taylor JMG, Lee N, Misek DE, Greenson JK, **Kardia SLR**, Beer DG, Rennert G, Cho KR, Gruber SB, Fearon ER, Hanash S (2001) Organ-specific molecular classification of primary lung, colon, and ovarian adenocarcinomas using gene expression profiles. *American Journal of Pathology* 159(4):1231-1238. PMID:11583950; PMCID: PMC1850519
32. Oh JMC, Brichory F, Puravs E, Kuick R, Wood C, Rouillard JM, Tra J, **Kardia S**, Beer D, Hanash S (2001) A database of protein expression in lung cancer. *Proteomics* 1(10):1303-1319. PMID:11721642
33. Lange LA, Lange EM, Bielak LF, Langefeld CD, **Kardia SL**, Royston P, Turner ST, Sheedy II PF, Boerwinkle E, Peyser PA (2002) Autosomal genome-wide scan for coronary artery calcification loci in sibships at high risk for hypertension. *Arteriosclerosis Thrombosis Vascular Biology* 22(3):418-423. PMID:11884284
34. Chen G, Gharib TG, Huang CC, Taylor JMG, Misek DE, **Kardia SLR**, Giordano TJ, Iannettoni MD, Orringer MB, Hanash SM, Beer DG (2002) Discordant protein and mRNA expression in lung adenocarcinomas. *Molecular Cellular Proteomics* 1(4):304-313. PMID:12096112
36. Stengård JH, Clark AG, Weiss KM, **Kardia S**, Nickerson DA, Salomaa V, Ehnholm C, Boerwinkle E, Sing CF (2002) Contributions of 18 additional DNA sequence variations in the gene encoding apolipoprotein E to explaining variation in quantitative measures of lipid metabolism. *American Journal of Human Genetics* 71(3):501-517. PMID:12165926. PMCID: PMC449695
37. Schwartz DR, **Kardia SLR**, Shedden KA, Kuick R, Michailidis G, Taylor JMG, Misek DE, Wu R, Zhai Y, Darrah DM, Reed H, Ellenson LH, Giordano TJ, Fearon ER, Hanash SM, Cho KR (2002) Gene expression in ovarian cancer reflects both morphology and biological behavior, distinguishing clear cell from other poor-prognosis ovarian carcinomas. *Cancer Research* 62(16):4722-4729. PMID:12183431
38. Beer DG, **Kardia SLR**, Huang CC, Giordano TJ, Levin AM, Misek DE, Lin L, Chen G, Gharib TG, Thomas DG, Lizyness ML, Kuick R, Hayasaka S, Taylor JMG, Iannettoni MD, Orringer MB, Hanash S (2002) Gene-expression profiles predict survival of patients with lung adenocarcinoma. *Nature Medicine* 8(8):816-824. PMID:12118244

39. Small KM, Wagoner LE, Levin AM, **Kardia SLR**, Liggett SB (2002) Synergistic polymorphisms of  $\beta_1$ - and  $\alpha_{2C}$ -adrenergic receptors and the risk of congestive heart failure. *New England Journal Medicine* 347(15):1135-1142. PMID:12374873
40. Innis JW, Margulies EH, **Kardia S** (2002) Integrative biology and the developing limb bud. *Evolutionary Development* 4(5):378-389. PMID:12356268
41. Chen G, Gharib TG, Huang CC, Thomas DG, Shedden KA, Taylor JMG, **Kardia SLR**, Misek DE, Giordano TJ, Iannettoni MD, Orringer MB, Hanash SM, Beer DG (2002) Proteomic analysis of lung adenocarcinoma: Identification of a highly expressed set of proteins in tumors. *Clinical Cancer Research* 8(7):2298-2305. PMID:12114434. PMCID: PMC263849
42. Gharib TG, Chen G, Wang H, Huang CC, Prescott MS, Shedden K, Misek DE, Thomas DG, Giordano TJ, Taylor JMG, **Kardia S**, Yee J, Orringer MB, Hanash S, Beer DG (2002) Proteomic analysis of cytokeratin isoforms uncovers association with survival in lung adenocarcinoma. *Neoplasia* 4(5):440-448 PMID:12192603. PMCID: PMC1661678
43. **Kardia SLR**, Rozek LS, Krushkal J, Ferrell RE, Turner ST, Hutchinson R, Brown A, Sing CF, Boerwinkle E (2003) Genome-wide linkage analyses for hypertension genes in two ethnically and geographically diverse populations. *American Journal of Hypertension* 16(2):154-157. PMID:12559685
44. Province MA, **Kardia SLR**, Ranade K, Rao DC, Theil BA, Cooper RS, Risch N, Turner ST, Cox DR, Hunt SC, Weder AB, Boerwinkle E (2003) A Meta-analysis of genome-wide linkage scans for hypertension: The National Heart, Lung and Blood Institute Family Blood Pressure Program. *American Journal of Hypertension* 16(2):144-147. PMID:12559682
45. **Kardia SLR**, Modell SM, Peyser PA (2003) Family-centered approaches to understanding and preventing coronary heart disease. *American Journal of Preventive Medicine* 24(2):143-151. PMID:12568820
46. Sing CF, Stengård JH, **Kardia SLR** (2003) Genes, environment, and cardiovascular disease. *Arteriosclerosis Thrombosis Vascular Biology* 23(7):1190-1196. PMID:12730090
47. Kullo IJ, McConnell JP, Bailey KR, **Kardia SL**, Bielak LF, Peyser PA, Sheedy II PF, Boerwinkle E, Turner ST (2003) Relation of C-reactive protein and fibrinogen to coronary artery calcium in subjects with systemic hypertension. *American Journal of Cardiology* 92(1):56-58. PMID:12842247
48. Barkley RA, Brown AC, Hanis CL, **Kardia SL**, Turner ST, Boerwinkle E (2003) Lack of genetic linkage evidence for a *trans*-acting factor having a large effect on plasma lipoprotein[a] levels in African Americans. *Journal of Lipid Research* 44(7):1301-1305. PMID:12730294
49. Morrison AC, Brown A, **Kardia SLR**, Turner ST, Boerwinkle E (2003) Evaluating the context-dependent effect of family history of stroke in a genome scan for hypertension.

*Stroke* 34(5):1170-1175. PMID:12714704

50. **Kardia SLR**, Pomerleau CS, Rozek LS, Marks JL (2003) Association of parental smoking history with nicotine dependence, smoking rate, and psychological cofactors in adult smokers. *Addictive Behavior* 28(8):1447-1452. PMID:14512067
51. Chen G, Gharib TG, Wang H, Huang CC, Kuick R, Thomas DG, Shedden KA, Misek DE, Taylor JMG, Giordano TJ, **Kardia SLR**, Iannettoni MD, Yee J, Hogg PJ, Orringer MB, Hanash SM, Beer DG (2003) Protein profiles associated with survival in lung adenocarcinoma. *Proceedings of the National Academy of Science* 100(23):13537-13542. PMID:14573703. PMCID: PMC263849
52. Schwartz DR, Wu R, **Kardia SLR**, Levin AM, Huang CC, Shedden KA, Kuick R, Misek DE, Hanash SM, Taylor JMG, Reed H, Hendrix N, Zhai Y, Fearon ER, Cho KR (2003) Novel candidate targets of  $\beta$ -catenin/T-cell factor signaling identified by gene expression profiling of ovarian endometrioid adenocarcinomas. *Cancer Research* 63(11):2913-2922. PMID:12782598
53. Shedden KA, Taylor JMG, Giordano TJ, Kuick R, Misek DE, Rennert G, Schwartz DR, Gruber SB, Logsdon C, Simeone D, **Kardia SLR**, Greenson JK, Cho KR, Beer DG, Fearon ER, Hanash S (2003) Accurate molecular classification of human cancers based on gene expression using a simple classifier with a pathological tree-based framework. *American Journal of Pathology* 163(5):1985-1995. PMID:14578198. PMCID: PMC1892445
54. Kullo IJ, Bailey KR, **Kardia SLR**, Moseley Jr TH, Boerwinkle E, Turner ST (2003) Ethnic differences in peripheral arterial disease in the NHLBI Genetic Epidemiology Network of Arteriopathy (GENOA) study. *Vascular Medicine* 8(4):237-242. PMID:15125483
55. Chen G, Wang H, Gharib TG, Huang CC, Thomas DG, Shedden KA, Kuick R, Taylor JMG, **Kardia SLR**, Misek DE, Giordano TJ, Iannettoni MD, Orringer MB, Hanash SM, Beer DG (2003) Overexpression of oncoprotein 18 correlates with poor differentiation in lung adenocarcinomas. *Molecular Cellular Proteomics* 2(2):107-116. PMID:12644570
57. Daniels PR, **Kardia SLR**, Hanis CL, Brown CA, Hutchinson R, Boerwinkle E, Turner ST (2004) Familial aggregation of hypertension treatment and control in the Genetic Epidemiology Network of Arteriopathy (GENOA) study. *American Journal of Medicine* 116(10):676-681. PMID:15121494
58. O'Meara JG, **Kardia SLR**, Armon JJ, Brown CA, Boerwinkle E, Turner ST (2004) Ethnic and sex differences in the prevalence, treatment, and control of dyslipidemia among hypertensive adults in the GENOA study. *Archives of Internal Medicine* 164(12):1313-1318. PMID:15226165
59. Turner ST, **Kardia SLR**, Boerwinkle E, de Andrade M (2004) Multivariate linkage analysis of blood pressure and body mass index. *Genetic Epidemiology* 27(1):64-73. PMID:15185404
60. Lanie AD, Jayaratne TE, Sheldon JP, **Kardia SLR**, Anderson ES, Feldbaum M, Petty EM

- (2004) Exploring the public understanding of basic genetic concepts. *Journal of Genetic Counseling* 13(4):305-320. PMID:15460613
61. Koivukoski L, Fisher SA, Kanninen T, Lewis CM, von Wowern F, Hunt S, **Kardia SLR**, Levy D, Perola M, Rankinen T, Rao DC, Rice T, Thiel BA, Melander O (2004) Meta-analysis of genome-wide scans for hypertension and blood pressure in Caucasians shows evidence of susceptibility regions on chromosomes 2 and 3. *Human Molecular Genetics* 13(19):2325-2332. PMID:15294874
  62. **Kardia SLR**, Turner ST, Schwartz GL, Moore JH (2004) Linear dynamic features of ambulatory blood pressure in a population-based study. *Blood Pressure Monitoring* 9(5):259-267. PMID:15472499
  63. Kullo IJ, Bailey KR, McConnell JP, Peyser PA, Bielak LF, **Kardia SLR**, Sheedy II PF, Boerwinkle E, Turner ST (2004) Low-density lipoprotein particle size and coronary atherosclerosis in subjects belonging to hypertensive sibships. *American Journal of Hypertension* 17(9):845-851. PMID:15363830
  64. Kullo IJ, Bailey KR, Bielak LF, Sheedy II PF, Klee GG, **Kardia SL**, Peyser PA, Boerwinkle E, Turner ST (2004) Lack of association between lipoprotein(a) and coronary artery calcification in the Genetic Epidemiology Network of Arteriopathy (GENOA) study. *Mayo Clinic Proceedings* 79(10):1258-1263. PMID:15473406
  65. Pomerleau CS, Pomerleau OF, Snedecor SM, Gaulrapp S, **Kardia SLR** (2004) Heterogeneity in phenotypes based on smoking status in the Great Lakes Smoker Sibling Registry. *Addictive Behavior* 29(9):1851-1855. PMID:15530728
  66. Sing CF, Stengård JH, **Kardia SLR** (2004) Dynamic relationships between the genome and exposures to environments as causes of common human diseases. In: Simopoulos AP, Ordovas JM (eds) Nutrigenetics and Nutrigenomics. *World Review Nutrition and Diet* 93:77-91. PMID:15496802
  67. Tang H, Quertermous T, Rodriguez B, **Kardia SLR**, Zhu X, Brown A, Pankow JS, Province MA, Hunt SC, Boerwinkle E, Schork NJ, Risch NJ (2005) Genetic structure, self-identified race/ethnicity, and confounding in case-control association studies. *American Journal of Human Genetics* 76(2):268-275. PMID:15625622. PMCID: PMC1196372
  68. Lisabeth LD, **Kardia SLR**, Smith MA, Fornage M, Morgenstern LB (2005) Family history of stroke among Mexican-American and non-Hispanic white patients with stroke and TIA: Implications for the feasibility and design of stroke genetics research. *Neuroepidemiology* 24(1-2):96-102. PMID:15459516
  69. Cote ML, **Kardia SLR**, Wenzlaff AS, Land SJ, Schwartz AG (2005) Combinations of glutathione S-transferase genotypes and risk of early-onset lung cancer in Caucasians and African Americans: A population-based study. *Carcinogenesis* 26(4):811-819. PMID:15661806
  70. Jorgenson E, Tang H, Gadde M, Province M, Leppert M, **Kardia S**, Schork N, Cooper R,

- Rao DC, Boerwinkle E, Risch N (2005) Ethnicity and human genetic linkage maps. *American Journal of Human Genetics* 76(2):276-290. PMID:15627237. PMCID: PMC1196373
71. Theisen V, Duquette D, **Kardia SLR**, Wang C, Beene-Harris R, Bach J (2005) Blood pressure Sunday: Introducing genomics to the community through family history. *Prevention of Chronic Diseases* 2(2):A23. PMID:15888234. PMCID: PMC1327717
72. Bodzin J, **Kardia SLR**, Goldenberg A, Raup SF, Bach JV, Citrin T (2005) Genomics and public health: Development of Web-based training tools for increasing genomic awareness. *Prevention of Chronic Diseases* 2(2):A25. PMID:15888236. PMCID: PMC1327719
73. Pomerleau CS, Snedecor S, Ninowski R, Gaulrapp S, Pomerleau OF, **Kardia SLR** (2005) Differences in accuracy of offspring assessment based on parental smoking status. *Addictive Behavior* 30(3):437-441. PMID:15718061
74. Klos KLE, **Kardia SLR**, Hixson JE, Turner ST, Hanis C, Boerwinkle E, Sing CF (2005) Linkage analysis of plasma ApoE in three ethnic groups: Multiple genes with context-dependent effects. *Annals of Human Genetics* 69(pt2):157-167. PMID:15720297
75. Kullo IJ, de Andrade M, Boerwinkle E, McConnell JP, **Kardia SLR**, Turner ST (2005) Pleiotropic genetic effects contribute to the correlation between HDL cholesterol, triglycerides, and LDL particle size in hypertensive sibships. *American Journal of Hypertension* 18(1):99-103. PMID:15691623
76. Turner ST, Fornage M, Jack Jr CR, Mosely TH, **Kardia SLR**, Boerwinkle E, de Andrade M (2005) Genomic susceptibility loci for brain atrophy in hypertensive sibships from the GENOA study. *Hypertension* 45(4):793-798. PMID:15699467
77. Cote ML, **Kardia SLR**, Wenzlaff AS, Ruckdeschel JC, Schwartz AG (2005) Risk of lung cancer among white and black relatives of individuals with early-onset lung cancer. *JAMA* 293(24):3036-3042. PMID:15972566
78. **Kardia SLR** and Wang C (2005) The role of health education and behavior in public health genetics. *Health Education and Behavior* 32(5):583-588. PMID:16252432
79. Wang C, Bowen DJ, **Kardia SLR** (2005) Research and practice opportunities at the intersection of health education, health behavior, and genomics. *Health Education and Behavior* 32(5):686-701. PMID:16148214
80. Levin AM, Ghosh D, Cho KR, **Kardia SLR** (2005) A model-based scan statistic for identifying extreme chromosomal regions of gene expression in human tumors. *Bioinformatics* 21(12):2867-2874. PMID:15814559
81. Kullo IJ, Turner ST, Boerwinkle E, **Kardia SLR**, de Andrade M (2005) A novel quantitative trait locus on chromosome 1 with pleiotropic effects on HDL-cholesterol and LDL particle size in hypertensive sibships. *American Journal of Hypertension* 18(8):1084-1090. PMID:16109322

82. Stengård JH, **Kardia SLR**, Hamon SC, Frikke-Schmidt R, Tybjærg-Hansen A, Salomaa V, Boerwinkle E, Sing CF (2006) Contribution of regulatory and structural variations in *APOE* to predicting dyslipidemia. *Journal of Lipid Research* 47(2):318-328. PMID:16317171. PMCID: PMC1361586
83. Kullo IJ, Li G, Bielak LF, Bailey KR, Sheedy II PF, Peyser PA, Turner ST, **Kardia SLR** (2006) Association of plasma homocysteine with coronary artery calcification in different categories of coronary heart disease risk. *Mayo Clinic Proceedings* 81(2):177-182. PMID:16471071
84. Turner ST, Peyser PA, **Kardia SLR**, Bielak LF, Sheedy III PF, Boerwinkle E, de Andrade M (2006) Genomic loci with pleiotropic effects on coronary artery calcification. *Atherosclerosis* 185(2):340-346. PMID:16054150
85. Chang YC, Kim JD, Schwander K, Rao DC, Miller MB, Weder AB, Cooper RS, Schork NJ, Province MA, Morrison AC, **Kardia SLR**, Quertermous T, Chakravarti A (2006) The impact of data quality on the identification of complex disease genes: Experience from the Family Blood Pressure Program. *European Journal of Human Genetics* 14(4):469-477. PMID:16493446
86. **Kardia SLR**, Bielak LF, Lange LA, Cheverud JM, Boerwinkle E, Turner ST, Sheedy II PF, Peyser PA (2006) Epistatic effects between two genes in the renin-angiotensin system and systolic blood pressure and coronary artery calcification. *Medical Science Monitor* 12(4):CR150-158. PMID:16572049
87. Rule AD, Jacobsen SJ, Schwartz GL, Mosley TH, Scott CG, **Kardia SLR**, Boerwinkle E, Turner ST (2006) A comparison of serum creatinine-based methods for identifying chronic kidney disease in hypertensive individuals and their siblings. *American Journal of Hypertension* 19(6):608-614. PMID:16733233
88. Tang H, Jorgenson E, Gadde M, **Kardia SLR**, Rao DC, Zhu X, Schork NJ, Hanis CL, Risch N (2006) Racial admixture and its impact on BMI and blood pressure in African and Mexican Americans. *Human Genetics* 119(6):624-633. PMID:16738946
89. Hamon SC, **Kardia SLR**, Boerwinkle E, Liu K, Klos KLE, Clark AG, Sing CF (2006) Evidence for consistent intragenic and intergenic interactions between SNP effects in the APOA1/C3/A4/A5 gene cluster. *Human Heredity* 61(2):87-96. PMID:16710093. PMCID: PMC1698960
90. Turner ST, **Kardia SLR**, Mosely TH, Rule AD, Boerwinkle E, de Andrade M (2006) Influence of genomic loci on measures of chronic kidney disease in hypertensive sibships. *Journal of American Society of Nephrology* 17(7):2048-2055. PMID:16775034
91. Kullo IJ, Ding K, Boerwinkle E, Turner ST, Mosley Jr. TH, **Kardia SLR**, de Andrade M (2006) Novel genomic loci influencing plasma homocysteine levels. *Stroke* 37(7):1703-1709. PMID:16741189

92. Kullo IJ, Turner ST, **Kardia SLR**, Mosley Jr. TH, Boerwinkle E, de Andrade M (2006) A genome-wide linkage scan for ankle-brachial index in African American and non-Hispanic white subjects participating in the GENOA study. *Atherosclerosis* 187(2):433-438. PMID:16280126
93. Sowers MR, Wilson AL, Karvonen-Gutierrez CA, **Kardia SR** (2006) Sex steroid hormone pathway genes and health-related measures in women of 4 races/ethnicities: The Study of Women's Health Across the Nation (SWAN). *American Journal of Medicine* 119(9 Suppl 1):S103-S110. PMID:16949383
94. Sowers MR, Jannausch ML, McConnell DS, **Kardia SR**, Randolph JF Jr. (2006) Endogenous estradiol and its association with estrogen receptor gene polymorphisms. *American Journal of Medicine* 119(9 Suppl 1):S16-S22. PMID:16949384
95. Sowers MR, Wilson AL, **Kardia SR**, Chu J, Ferrell R (2006) Aromatase gene (CYP 19) polymorphisms and endogenous androgen concentrations in a multiracial/multiethnic, multisite study of women at midlife. *American Journal of Medicine* 119(9 Suppl 1):S23-S30. PMID:16949385
96. **Kardia SR**, Chu J, Sowers MR (2006) Characterizing variation in sex steroid hormone pathway genes in women of 4 races/ethnicities: The Study of Women's Health Across the Nation (SWAN). *American Journal of Medicine* 119(9 Suppl 1):S3-S15. PMID:16949386
97. Sowers MR, Jannausch ML, McConnell DS, **Kardia SR**, Randolph JF Jr. (2006) Menstrual cycle markers of ovarian aging and sex steroid hormone genotypes. *American Journal of Medicine* 119(9 Suppl 1):S31-S43. PMID:16949387
98. Sowers MR, Wilson AL, **Kardia SR**, Chu J, McConnell DS (2006) CYP1A1 and CYP1B1 polymorphisms and their association with estradiol and estrogen metabolites in women who are premenopausal and perimenopausal. *American Journal of Medicine* 119(9 Suppl 1):S44-S51. PMID:16949388
99. Sowers MR, Symons JP, Jannausch ML, Chu J, **Kardia SR** (2006) Sex steroid hormone polymorphisms, high-density lipoprotein cholesterol, and apolipoprotein A-1 from the Study of Women's Health Across the Nation (SWAN). *American Journal of Medicine* 119(9 Suppl 1):S61-S68. PMID:16949390
100. Kelada SNP, Checkoway H, **Kardia SLR**, Carlson CS, Costa-Mallen P, Eaton DL, Firestone J, Powers KM, Swanson PD, Franklin GM, Longstreth WT Jr., Weller T, Afsharinejad Z, Costa LG (2006) 5' and 3' region variability in the dopamine transporter gene (*SLC6A3*), pesticide exposure and Parkinson's disease risk: A hypothesis-generating study. *Human Molecular Genetics* 15(20):3055-3062. PMID:16963468
101. Sun YV, Levin AM, Boerwinkle E, Robertson H, **Kardia SLR** (2006) A scan statistic for identifying chromosomal patterns of SNP association. *Genetic Epidemiology* 30(7):627-635. PMID:16858698

102. Huang CC, Taylor JMG, Beer DG, **Kardia SLR** (2006) Hidden Markov model for defining genomic changes in lung cancer using gene expression data. *OMICS* 10(3):276-288. PMID:17069508
103. Sun YV, Jacobsen DM, **Kardia SLR** (2006) ChromoScan: A scan statistic application for identifying chromosomal regions in genomic studies. *Bioinformatics* 22(23):2945-2947. PMID:17032677
104. Fornage M, Mosley TH, Jack CR, de Andrade M, **Kardia SLR**, Boerwinkle E, Turner ST (2007) Family-based association study of matrix metalloproteinase-3 and -9 haplotypes with susceptibility to ischemic white matter injury. *Human Genetics* 120(5):671-680. PMID:17024375
105. Kelly RJ, Jacobsen DM, Sun YV, Smith JA, **Kardia SLR** (2007) KGraph: A system for visualizing and evaluating complex genetic associations *Bioinformatics* 23(2):249-251. PMID:17032675
106. Chang Y-P C, Liu X, Kim JDO, Ikeda MA, Layton MR, Weder AB, Cooper RS, **Kardia SLR**, Rao DC, Hunt SC, Luke A, Boerwinkle E, Chakravarti A (2007) Multiple genes for essential-hypertension susceptibility on Chromosome 1q. *American Journal of Human Genetics* 80(2):253-264. PMID:17236131. PMCID: PMC1785356
107. Meyers KJ, Mosley TH, Fox E, Boerwinkle E, Arnett DK, Devereux RB, **Kardia SLR** (2007) Genetic variations associated with echocardiographic left ventricular traits in hypertensive blacks. *Hypertension* 49(5):992-999. PMID:17339538
108. Greenwood TA, Libiger O, **Kardia S**, Hanis C, Morrison AC, Gu CC, Rice T, Miller M, Turner ST, Myers RH, Grove J, Hsiao CF, Weder AB, Schork NJ (2007) Comprehensive linkage and linkage heterogeneity analysis of 4344 sibling pairs affected with hypertension from the Family Blood Pressure Program. *Genetic Epidemiology* 31(3):195-210. PMID:17266112
109. Gu CC, Hunt SC, **Kardia S**, Turner ST, Chakravarti A, Schork N, Olshen R, Curb D, Jaquish C, Boerwinkle E, Rao DC (2007) An investigation of genome-wide associations of hypertension with microsatellite markers in the Family Blood Pressure Program (FBPP). *Human Genetics* 121(5):577-590. PMID:17372766
110. Khawaja FJ, Bailey KR, Turner ST, **Kardia SL**, Mosley TH, Kullo IJ (2007) Association of novel risk factors with the ankle brachial index in African American and non-Hispanic white populations. *Mayo Clinic Proceedings* 82(6):709-716. PMID:17550751
111. Pomerleau OF, Burmeister M, Madden P, Long JC, Swan GE, **Kardia SLR** (2007) Genetic research on complex behaviors: An examination of attempts to identify genes for smoking. *Nicotine Tobacco Research* 9(8):883-901. PMID:17654301
112. Pomerleau OF, Pomerleau CS, Chu J, **Kardia SLR** (2007) Genome-wide linkage analysis

for smoking-related regions, with replication in two ethnically diverse populations. *Nicotine Tobacco Research* 9(9):955-958. PMID:17763112

113. **Kardia SLR**, Sun YV, Hamon SC, Barkley RA, Boerwinkle E, Turner ST (2007) Interactions between the adducin 2 gene and antihypertensive drug therapies in determining blood pressure in people with hypertension. *BMC Medical Genetics* 8(1):61. PMID:17854487. PMCID: PMC2065870
114. Payne PW, Royal C, **Kardia SLR** (2007) Genetic and social environment interactions and their impact on health policy. *Journal of American Academy of Orthop Surgery* 15(suppl 1):S95-S98. PMID:17766800
115. Liggett SB, Kelly RJ, Parekh RR, Matkovich SJ, Benner BJ, Hahn HS, Syed FM, Galvez AS, Case KL, McGuire N, Odley AM, Sparks L, **Kardia SLR**, Dorn II GW (2007) A functional polymorphism of the Gαq (*GNAQ*) gene is associated with accelerated mortality in African-American heart failure. *Human Molecular Genetics* 16(22):2740-2750. PMID:17720980
116. Sun YV, Cai Z, Desai K, Lawrence R, Leff R, Jawaid A, **Kardia SLR**, Yang H (2007) Classification of rheumatoid arthritis status with candidate gene and genome-wide single-nucleotide polymorphisms using random forests. *BMC Proceedings* 1(Suppl 1):S62. PMID:18466563. PMCID: PMC2367463
117. Kullo IJ, Greene MT, Boerwinkle E, Chu J, Turner ST, **Kardia SLR** (2008) Association of polymorphisms in NOS3 with the ankle-brachial index in hypertensive adults. *Atherosclerosis* 196(2):905-912. PMID:17367796. PMCID: PMC2858046
118. Sun YV and **Kardia SLR** (2008) Imputing missing genotypic data of single-nucleotide polymorphisms using neural networks. *European Journal of Human Genetics* 16(4):487-495. PMID:18197192
119. Sun YV, Bielak LF, Peyser PA, Turner ST, Sheedy PF II, Boerwinkle E, **Kardia SLR** (2008) Application of machine learning algorithms to predict coronary artery calcification with a sibship-based design. *Genetic Epidemiology* 32(4):350-360. PMID:18271057. PMCID: PMC2828904
120. Smith JA, Arnett DK, Kelly RJ, Ordovas JM, Sun YV, Hopkins PN, Hixson JE, Straka RJ, Peacock JM, **Kardia SLR** (2008) The genetic architecture of fasting plasma triglyceride response to fenofibrate treatment. *European Journal of Human Genetics* 16(5):603-613. PMID:18212815. PMCID: PMC2546577
121. Liggett SB, Cresci S, Kelly RJ, Syed FM, Matkovich SJ, Hahn HS, Diwan A, Martini JS, Sparks L, Parekh RR, Spertus JA, Koch WJ, **Kardia SLR**, Dorn II GW (2008) A GRK5 polymorphism that inhibits β-adrenergic receptor signaling is protective in heart failure. *Nature Medicine* 14(5):510-517. PMID:18425130. PMCID: PMC2596476

122. **Kardia SLR**, Greene MT, Boerwinkle E, Turner ST, Kullo IJ (2008) Investigating the complex genetic architecture of ankle-brachial index, a measure of peripheral arterial disease, in non-Hispanic whites. *BMC Medical Genomics* 1:16. PMID:18482449. PMCID: PMC2412898
123. **Kardia SLR**, Kelly RJ, Keddache MA, Aronow BJ, Grabowski GA, Hahn HS, Case KL, Wagoner LE, Dorn II GW, Liggett SB (2008) Multiple interactions between the alpha<sub>2C</sub>- and beta<sub>1</sub>-adrenergic receptors influence heart failure survival. *BMC Medical Genetics* 9(1):93. PMID:18947427. PMCID: PMC2588439
124. Taylor J, Sun YV, Chu J, Mosley TH, **Kardia SL** (2008) Interactions between metallopeptidase 3 polymorphism rs679620 and BMI in predicting blood pressure in African-American women with hypertension. *Journal of Hypertension* 26(12):2312-2318. PMID:19008710. PMCID: PMC3005718
125. Sammalisto S, Hiekkalinna T, Schwander K, **Kardia S**, Weder AB, Rodriguez BL, Doria A, Kelly JA, Bruner GR, Harley JB, Redline S, Larkin EK, Patel SR, Ewan AJH, Weber JL, Perola M, Peltonen L (2009) Genome-wide linkage screen for stature and body mass index in 3,032 families: Evidence for sex- and population-specific genetic effects. *European Journal of Human Genetics* 17(2):258-266. PMID:18781184. PMCID: PMC2628452
126. Khoury MJ, McBride CM, Schully SD, Ioannidis JP, Feero WG, Janssens AC, Gwinn M, Simons-Morton DG, Bernhardt JM, Cargill M, Chanock SJ, Church GM, Coates RJ, Collins FS, Croyle RT, Davis BR, Downing GJ, Duross A, Friedman S, Gail MH, Ginsburg GS, Green RC, Greene MH, Greenland P, Gulcher JR, Hsu A, Hudson KL, **Kardia SL**, Kimmel PL, Lauer MS, Miller AM, Offit K, Ransohoff DF, Roberts JS, Rasooly RS, Stefansson K, Terry SF, Teutsch SM, Trepanier A, Wanke KL, Witte JS, Xu J (2009) The Scientific Foundation for personal genomics: recommendations from a National Institutes of Health-Centers for Disease Control and Prevention multidisciplinary workshop. *Genetics in Medicine* (8):559-67. PMID: 19617843. PMCID: PMC2936269
127. Basu A, Tang H, Arnett D, Gu CC, Mosley T, **Kardia S**, Luke A, Tayo B, Cooper R, Zhu X, Risch N (2009) Admixture mapping of quantitative trait loci for BMI in African Americans: evidence for loci on chromosomes 3q, 5q, and 15q. *Obesity* 17(6):12226-1231. PMID: 19584881. PMCID: PMC2722229
128. Smith JA, Turner ST, Sun YV, Fornage M, Kelly RJ, Mosley TH, Jack CR, Kullo IJ, **Kardia SL** (2009) Complexity in the genetic architecture of leukoaraiosis in hypertensive sibships from the GENOA Study. *BMC Medical Genomics* 2:16. PMID: 19351393. PMCID: PMC2679055
129. Khoury MJ, Feero WG, Reyes M, Citrin T, Freedman A, Leonard D, Burke W, Coates R, Croyle RT, Edwards K, **Kardia S**, McBride C, Manolio T, Randhawa G, Rasooly R, St Pierre J, Terry S (2009) GAPPNet Planning Group. The genomic applications in practice and prevention network. *Genetics in Medicine* 11(7):488-94. PMID: 19471162. PMCID:

PMC2743616

130. Turner ST, Fornage M, Jack CR Jr, Mosley TH, Knopman DS, **Kardia SL**, Boerwinkle E, de Andrade M (2009) Genomic susceptibility Loci for brain atrophy, ventricular volume, and leukoaraiosis in hypertensive sibships. *Archives of Neurology* 66(7):847-57. PMID:19597086. PMCID: PMC2828902
131. Cresci S, Kelly RJ, Cappola TP, Diwan A, Dries D, **Kardia SL**, Dorn GW 2nd (2009) Clinical and genetic modifiers of long-term survival in heart failure. *Journal of American College of Cardiology* 54(5):432-44. PMID: 19628119. PMCID: PMC2749467
132. Sun YV, Sheden KA, Zhu J, Choi NH, **Kardia SL** (2009) Identification of correlated genetic variants jointly associated with rheumatoid arthritis using ridge regression. *BMC Proceedings* 3 Suppl 7:S67. PMID: 20018061. PMCID: PMC2795968
133. Sun YV, Peyser PA, **Kardia SL** (2009) A common copy number variation on chromosome 6 association with the gene expression level of endothelin 1 in transformed B lymphocytes from three racial groups. *Circulation Cardiovascular Genetics* 2(5):483-8. PMID: 20031624. PMCID: PMC2790827
134. Jayaratne TE, Gelman SA, Feldbaum M, Sheldon JP, Petty EM, **Kardia SL** (2009) The perennial debate: nature, nurture, or choice? Black and white Americans' explanations for individual differences. *Review of General Psychology* 13(1):24-33. PMID: 20072661. PMCID: PMC2805246
135. Sun YV, Jacobsen DM, Turner ST, Boerwinkle E, **Kardia SL** (2009) A fast implementation of a scan statistic for identifying chromosomal patterns of genome wide association studies. *Computational and Statistical Data Analysis* 53(5):1794-1801. PMID: 20161066. PMCID: PMC2747781
136. Wade CH, McBride CM, **Kardia SL**, Brody LC (2010) Considerations for designing a prototype genetic test for use in translational research. *Public Health Genomics*. *Public Health Genomics* 13(3):155-165. PMID: 19729884. PMCID: PMC2837884
137. Wade CH, McBride CM, **Kardia SL**, Brody LC (2010) A response to 'Why realistic test scenarios in translational research remain hypothetical'. *Public Health Genomics* 13(3):169-170. PMID: 19729886. PMCID: PMC2837885
138. Christensen KD, Jayaratne TE, Roberts JS, **Kardia SL**, Petty EM (2010) Understandings of basic genetics in the United States: Results from a national survey of black and white men and women. *Public Health Genomics* 13(7-8):467-476. PMID: 20203477. PMCID: PMC3025896
139. Sun YV, Turner ST, Smith JA, Hammond PI, Lazarus A, Van De Rostyne JL, Cunningham JM, **Kardia SL** (2010) Comparison of the DNA methylation profiles of human peripheral blood cells and transformed B-lymphocytes. *Human Genetics* 127(6):651-658. PMID:

20238126. PMCID: PMC2873107

140. Lai MM, Li CI, **Kardia SL**, Liu CS, Lin WY, Lee YD, Chang PC, Lin CC, Li TC (2010) Sex difference in the associate of metabolic syndrome with high sensitivity C-reactive protein in a Taiwanese population. *BMC Public Health* 10(1):429. PMID: 20663138. PMCID: PMC2920887
141. Taylor JY, Sun YV, Hunt SC, **Kardia SL** (2010) Gene-environment interaction for hypertension among African American Women across generations. *Biological Research in Nursing* 12(2): 149-155. PMID: 20591971. PMCID: PMC3005771
142. Köttgen A, Pattaro C, Böger CA, Fuchsberger C, Olden M, Glazer NL, Parsa A, Gao X, Yang Q, Smith AV, O'Connell JR, Li M, Schmidt H, Tanaka T, Isaacs A, Ketkar S, Hwang SJ, Johnson AD, Dehghan A, Teumer A, Paré G, Atkinson EJ, Zeller T, Lohman K, Cornelis MC, Probst-Hensch NM, Kronenberg F, Tönjes A, Hayward C, Aspelund T, Eiriksdottir G, Launer LJ, Harris TB, Rampersaud E, Mitchell BD, Arking DE, Boerwinkle E, Struchalin M, Cavalieri M, Singleton A, Giallauria F, Metter J, de Boer IH, Haritunians T, Lumley T, Siscovick D, Psaty BM, Zillikens MC, Oostra BA, Feitosa M, Province M, de Andrade M, Turner ST, Schillert A, Ziegler A, Wild PS, Schnabel RB, Wilde S, Munzel TF, Leak TS, Illig T, Klopp N, Meisinger C, Wichmann HE, Koenig W, Zgaga L, Zemunik T, Kolcic I, Minelli C, Hu FB, Johansson A, Igl W, Zaboli G, Wild SH, Wright AF, Campbell H, Ellinghaus D, Schreiber S, Aulchenko YS, Felix JF, Rivadeneira F, Uitterlinden AG, Hofman A, Imboden M, Nitsch D, Brandstätter A, Kollerits B, Kedenko L, Mägi R, Stumvoll M, Kovacs P, Boban M, Campbell S, Endlich K, Völzke H, Kroemer HK, Nauck M, Völker U, Polasek O, Vitart V, Badola S, Parker AN, Ridker PM, **Kardia SL**, Blankenberg S, Liu Y, Curhan GC, Franke A, Rochat T, Paulweber B, Prokopenko I, Wang W, Gudnason V, Shuldiner AR, Coresh J, Schmidt R, Ferrucci L, Shlipak MG, van Duijn CM, Borecki I, Krämer BK, Rudan I, Gyllensten U, Wilson JF, Witteman JC, Pramstaller PP, Rettig R, Hastie N, Chasman DI, Kao WH, Heid IM, Fox CS (2010) New loci associated with kidney function and chronic kidney disease. *Nature Genetics* 42(5):376-384. PMID: 20383146. PMCID: PMC2997674
143. Shen H, Bielak LF, Ferguson JF, Streeten EA, Yerges-Armstrong LM, Liu J, Post W, O'Connell JR, Hixson JE, **Kardia SL**, Sun YV, Jhun MA, Wang X, Mehta NN, Li M, Koller DL, Hakonarson H, Keating BJ, Rader DJ, Shuldiner AR, Peyser PA, Reilly MP, Mitchell BD (2010) Association of the vitamin D metabolism gene CYP24A1 with coronary artery calcification. *Arteriosclerosis Thrombosis Vascular Biology* 30(12):2329-30. PMID: 20847308. PMCID: PMC2988112
144. Meyers KJ, Chu J, Mosley TH, **Kardia SL** (2010) SNP-SNP interactions dominate the genetic architecture of candidate genes associated with left ventricular mass in African-Americans of the GENOA study. *BMC Medical Genetics* 11:160. PMID: 21067599. PMCID: PMC2991303
145. Lin CC, **Kardia SL**, Li CI, Liu CS, Lai MM, Lin WY, Chang PC, Lee YD, Chen CC, Lin CH, Yang CW, Hsiao CY, Chen W, Li TC (2010) The relationship of high sensitivity C-

reactive protein to percent body fat mass, body mass index, waist-to-hip ratio, and waist circumference in a Taiwanese population. *BMC Public Health* 10:579. PMID: 20875142. PMCID: PMC2956725

146. Kelly RJ, Smith JA, **Kardia SL** (2010) Providing context and interpretability to genetic association analysis results using the KGraph. *Advances in Genetics* 72:181-93. PMID: 21029853
147. Sun, Y, and **Kardia SLR** (2010) Identification of epistatic effects using a protein-protein interaction database. *Human Molecular Genetics* 19(22):4345-4352. PMID: 20736252. PMCID: PMC2957319
148. Simino, J, Shi G, Kume R, Schwander K, Province MA, Gu CC, **Kardia S**, Chakravarti A, Ehret G, Olshen RA, Turner ST, Ho LT, Zhu X, Jaquish C, Paltoo D, Cooper RS, Weder A, Curb JD, Boerwinkle E, Hunt SC, Rao DC (2010) Five blood pressure loci identified by an updated genome-wide linkage scan: Meta-analysis of the family blood pressure program. *American Journal of Hypertension* 24(3): 347-354. PMID: 21151011. PMCID: PMC3405908
149. Sowers, M, Randolph JF, Jr, Zheng H, Jannausch M, McConnell D, **Kardia SR**, Crandall CJ, Nan B (2010) Genetic polymorphisms and obesity influence estradiol decline during the menopause. *Clinical Endocrinology (Oxf)* 74(5):618-623. PMID: 21198743. PMCID: PMC3357071
150. Rule, AD, de Andrade M, Matsumoto M, Mosley TH, **Kardia S**, Turner ST (2011) Association between SLC2A9 transporter gene variants and uric acid phenotypes in African American and white families. *Rheumatology (Oxf)* 50(5):871-878. PMID: 21186168. PMCID: PMC3077913.
151. Arnett, DK, Meyers KJ, Devereux RB, Tiwari HK, Gu CC, Vaughan LK, Perry RT, Patki A, Claas SA, Sun YV, Broeckel U, **Kardia SL** (2011) Genetic variation in NCAM1 contributes to left ventricular wall thickness in hypertensive families. *Circulation Research* 108(3):279-283. PMID: 21212386. PMCID: PMC3328104
152. Parsa, A, Chang YP, Kelly RJ, Corretti MC, Ryan KA, Robinson SW, Gottlieb SS, **Kardia SL**, Shuldiner AR, Liggett SB (2011) Hypertrophy-associated polymorphisms ascertained in a founder cohort applied to heart failure risk and mortality. *Clinical Translational Science* 1(4):17-23. PMID: 21348951. PMCID: PMC4373555
153. Zhu, X, Young JH, Fox E, Keating BJ, Franceschini N, Kang S, Tayo B, Adeyemo A, Sun YV, Li Y, Morrison A, Newton-Cheh C, Liu K, Ganesh SK, Kutlar A, Vasan RS, Dreisbach A, Wyatt S, Polak J, Palmas W, Musani S, Taylor H, Fabsitz R, Townsend RR, Dries D, Glessner J, Chiang CW, Mosley T, **Kardia S**, Curb D, Hirschhorn JN, Rotimi C, Reiner A, Eaton C, Rotter JI, Cooper RS, Redline S, Chakravarti A, Levy D (2011) Combined admixture mapping and association analysis identifies a novel blood pressure

genetic locus on 5p13: Contributions from the CARe consortium. *Human Molecular Genetics* 20(11):2285-2295. PMID: 21422096. PMCID: PMC3091098

154. Kraja, AT, Vaidya D, Pankow JS, Goodarzi MO, Assimes TL, Kullo IJ, Sovio U, Mathias RA, Sun YV, Franceschini N, Absher D, Li G, Zhang Q, Feitosa MF, Glazer NL, Haritunians T, Hartikainen AL, Knowles JW, North KE, Iribarren C, Kral B, Yanek L, O'Reilly PF, McCarthy MI, Jaquish C, Couper DJ, Chakravarti A, Psaty BM, Becker LC, Province MA, Boerwinkle E, Quertermous T, Palotie L, Jarvelin MR, Becker DM, **Kardia SL**, Rotter JI, Chen YD, Borecki IB (2011) A bivariate genome-wide approach to metabolic syndrome: STAMPEED consortium. *Diabetes* 60(4):1329-1339. PMID: 21386085. PMCID: PMC3064107.
155. Fox, ER, Young JH, Li Y, Dreisbach AW, Keating BJ, Musani SK, Liu K, Morrison AC, Ganesh S, Kutlar A, Ramachandran VS, Polak JF, Fabsitz RR, Dries DL, Farlow DN, Redline S, Adeyemo A, Hirschorn JN, Sun YV, Wyatt SB, Penman AD, Palmas W, Rotter JI, Townsend RR, Doumatey AP, Tayo BO, Mosley TH,Jr, Lyon HN, Kang SJ, Rotimi CN, Cooper RS, Franceschini N, Curb JD, Martin LW, Eaton CB, **Kardia SL**, Taylor HA, Caulfield MJ, Ehret GB, Johnson T, Chakravarti A, Zhu X, Levy D, The International Consortium for Blood Pressure Genome-wide Association Studies (ICBP-GWAS), et al. (2011) Association of genetic variation with systolic and diastolic blood pressure among African Americans: The candidate gene association resource study. *Human Molecular Genetics* 20(11):2273-2284. PMID: 21378095. PMCID: PMC3090190
156. Boger, CA, Chen MH, Tin A, Olden M, Kottgen A, Deboer IH, Fuchsberger C, O'Seaghdha CM, Pattaro C, Teumer A, Liu CT, Glazer NL, Li M, O'Connell JR, Tanaka T, Peralta CA, Kutalik Z, Luan J, Zhao JH, Hwang SJ, Akylbekova E, Kramer H, van der Harst P, Smith AV, Lohman K, de Andrade M, Hayward C, Kollerits B, Tonjes A, Aspelund T, Ingelsson E, Eiriksdottir G, Launer LJ, Harris TB, Shuldiner AR, Mitchell BD, Arking DE, Franceschini N, Boerwinkle E, Egan J, Hernandez D, Reilly M, Townsend RR, Lumley T, Siscovick DS, Psaty BM, Kestenbaum B, Haritunians T, Bergmann S, Vollenweider P, Waeber G, Mooser V, Waterworth D, Johnson AD, Florez JC, Meigs JB, Lu X, Turner ST, Atkinson EJ, Leak TS, Aasarod K, Skorpen F, Syvanen AC, Illig T, Baumert J, Koenig W, Kramer BK, Devuyst O, Mychaleckyj JC, Minelli C, Bakker SJ, Kedenko L, Paulweber B, Coassin S, Endlich K, Kroemer HK, Biffar R, Stracke S, Volzke H, Stumvoll M, Magi R, Campbell H, Vitart V, Hastie ND, Gudnason V, **Kardia SL**, Liu Y, Polasek O, Curhan G, Kronenberg F, Prokopenko I, Rudan I, Arnlov J, Hallan S, Navis G, the CKDGen Consortium, Parsa A, Ferrucci L, Coresh J, Shlipak MG, Bull SB, Paterson AD, Paterson on behalf of DCCT/EDIC, Wichmann HE, Wareham NJ, Loos RJ, Rotter JI, Pramstaller PP, Cupples LA, Beckmann JS, Yang Q, Heid IM, Rettig R, Dreisbach AW, Bochud M, Fox CS, Kao WH (2011) CUBN is a gene locus for albuminuria. *Journal of American Society of Nephrologists* 22(3):555-570. PMID: 21355061. PMCID: PMC3060449
157. Eckel-Passow JE, Atkinson EJ, Maharjan S, **Kardia SLR**, de Andrade M. (2011) Software comparison for evaluating genomic copy number variation for Affymetrix 6.0 SNP array platform. *BMC Bioinformatics* 12(1):220. PMID: 21627824. PMCID: PMC3146450

158. de Andrade M, Atkinson EJ, Bamlet WR, Matsumo ME, Maharjan S, Slager SL, Vachon CM, Cunningham JM, **Kardia SLR** (2011) Evaluating the influence of quality control decisions and software algorithms on SNP calling for the Affymetrix 6.0 SNP array platform. *Human Heredity* 71(4):221-223. PMID: 21734406. PMCID: PMC3136375
159. Turner ST, Rule AD, Schwartz GL, Kullo IJ, Mosley TH, Jack CR, **Kardia SLR**, Boerwinkle E, Bailey KR (2011) Risk factor profile for chronic kidney disease is similar to risk factor profile for small artery disease. *Journal of Hypertension* 29(9):1786-1801. PMID: 21720267. PMCID: PMC3651813
160. Wegmann D, Kessner DE, Veeramah KR, Mathias RA, Nicolae DL, Yanek LR, Sun YV, Torgerson DG, Rafaels N, Mosley T, Becker LC, Ruczinski I, Beaty TH, **Kardia SL**, Meyers DA, Barnes KC, Becker DM, Freimer NB, Novembre J (2011) Recombination rates in admixed individuals identified by ancestry-based inference. *Nature Genetics* 43(9):847-853. PMID: 21775992
161. Li C-I, **Kardia SLR**, Liu C-S, Lin W-Y, Lin C-H, Lee Y-D, Sung F-C, Li T-S, Lin C-C (2011) Metabolic syndrome is associated with change in subclinical arterial stiffness - A community-based Taichung Community Health Study. *BMC Public Health* 11(1): 808. PMID: 21999611. PMCID: PMC3213226
162. Liu C-T, Garnaas MK, Tin A, Kottgen A, Franceschini N, Peralta CA, Boer IH, Lu X, Atkinson E, Ding J, Nalls M, Shriner D, Coresh J, Kutlar A, Bibbins-Domingo K, Siscovick D, Akylbekova E, Wyatt S, Astor B, Mychaleckyj J, Li M, Reilly MP, Townsend R, Adeyemo A, Zonderman AB, de Andrade M, Turner ST, Mosley TH, Harris TB, the CKDGen Consortium, Rotimi CN, Liu Y, **Kardia SLR**, Evans MK, Shlipak MG, Kramer H, Flessner MF, Dreisbach AW, Goessling W, Cupples LA, Kao WL, Fox CS (2011) Genetic association for renal traits among participants of African ancestry reveals new loci for renal function. *PLoS Genetics* 7(9): e1002264. PMID: 21931561. PMCID: PMC3169523
163. O'Donnell CJ, Kavousi M, Smith AV, **Kardia SLR**, Province MA, Hwang S, Sun Y, Feitosa MF, Aspelund T, Dehghan A, Hoffmann U, Bielak LF, Zhang Q, Eiriksdottir G, van Duijn CM, Fox CS, de Andrade M, Kraja AT, Sigurdsson S, Elian-Smale SE, Murabito J, Launer L, van der Lugt A, Kathiresan S, Blankenberg S, Zeller T, Wild P, Schnabel RB, Schillert A, Uitterlinden AD, Massaro JM, Cunningham J, Harris TB, Hofman A, Peyser PA, Borecki IB, Cupples LA, Gudnason V, Witteman JC (2011) Genome-wide association study for coronary artery calcification with follow-up in myocardial infarction. *Circulation* 124(25):2855-2864. PMID: 22144573. PMCID: PMC3397173
164. Sun YV, Zhao W, Shedden KA, **Kardia SLR** (2012) Identification of genes associated with complex traits by testing the genetic dissimilarity between individuals. *BMC Proceedings* 5(9):S120. PMID: 22373401. PMCID: PMC3287845
165. Stolk L, Perry JR, Chasman DI, He C, Mangino M, Sulem P, Barbalic M, Broer L, Byrne EM, Ernst F, Esko T, Franceschini N, Gudbjartsson DF, Hottenga JJ, Kraft P, McArdle PF,

Porcu E, Shin SY, Smith AV, van Wingerden S, Zhai G, Zhuang WV, Albrecht E, Alizadeh BZ, Aspelund T, Bandinelli S, Lauc LB, Beckmann JS, Boban M, Boerwinkle E, Broekmans FJ, Burri A, Campbell H, Chanock SJ, Chen C, Cornelis MC, Corre T, Covello AD, d'Adamo P, Davies G, de Faire U, de Geus EJ, Deary IJ, Dedoussis GV, Deloukas P, Ebrahim S, Eiriksdottir G, Emilsson V, Eriksson JG, Fauser BC, Ferrelli L, Ferrucci L, Fischer K, Folsom AR, Garcia ME, Gasparini P, Gieger C, Glazer N, Grobbee DE, Hall P, Haller T, Hankinson SE, Hass M, Hayward C, Heath AC, Hofman A, Ingelsson E, Janssens AC, Johnson AD, Karasik D, **Kardia SL**, Keyzer J, Kiel DP, Kolcic I, Katalik Z, Lahti J, Lai S, Laisk T, Laven JS, Lawlor DA, Liu J, Lopez LM, Louwers YV, Magnusson PK, Marongiu M, Martin NG, Klaric IM, Masciullo C, McKnight B, Medland SE, Melzer D, Mooser V, Navarro P, Newman AB, Nyholt DR, Onland-Moret NC, Palotie A, Paré G, Parker AN, Pedersen NL, Peeters PH, Pistis G, Plump AS, Polasek O, Pop VJ, Psaty BM, Räikkönen K, Rehnberg E, Rotter JI, Rudan I, Sala C, Salumets A, Scuteri A, Singleton A, Smith JA, Snieder H, Soranzo N, Stacey SN, Starr JM, Stathopoulou MG, Stirrups K, Stolk RP, Styrkarsdottir U, Sun YV, Tenesa A, Thorand B, Toniolo D, Tryggvadottir L, Tsui K, Ulivi S, van Dam RM, van der Schouw YT, van Gils CH, van Nierop P, Vink JM, Visscher PM, Voorhuis M, Waeber G, Wallaschofski H, Wichmann HE, Widen E, Wijnands-van Gent CJ, Willemse G, Wilson JF, Wolffenduttel BH, Wright AF, Yerges-Armstrong LM, Zemunik T, Zgaga L, Zillikens MC, Zygmunt M, Study TL, Arnold AM, Boomsma DI, Buring JE, Crisponi L, Demerath EW, Gudnason V, Harris TB, Hu FB, Hunter DJ, Launer LJ, Metspalu A, Montgomery GW, Oostra BA, Ridker PM, Sanna S, Schlessinger D, Spector TD, Stefansson K, Streeten EA, Thorsteinsdottir U, Uda M, Uitterlinden AG, van Duijn CM, Völzke H, Murray A, Murabito JM, Visser JA, Lunetta KL (2012) Meta-analyses identify 13 loci associated with age at menopause and highlight DNA repair and immune pathways. *Nature Genetics* 44(3):260-268. PMID: 22267201. PMCID: PMC3288642

166. Murabito JM, White C, Kavousi M, Sun YV, Feitosa MF, Nambi V, Lamina C, Schillert A, Coassini S, Bis J, Broer L, Crawford DC, Franceschini N, Frikke-Schmidt R, Haun M, Holewijn S, Huffman JE, Hwang SJ, Kiechl S, Kollerits B, Montasser ME, Nolte IM, Ruddock ME, Senft A, Teumer A, van der Harst P, Vitart V, Waite LL, Wood AR, Wassel CL, Absher DM, Allison MA, Amin N, Arnold A, Asselbergs FW, Aulchenko Y, Bandinelli S, Barbalic M, Boban M, Brown-Gentry K, Criqui MH, Dehghan A, den Heijer M, Dieplinger B, Ding J, Dorr M, Espinola-Klein C, Felix SB, Ferrucci L, Fraedrich G, Gibson Q, Goodloe R, Gunjaca G, Halmayer M, Heiss G, Hofman A, Kieback A, Kiemeney LA, Kolcic I, Kullo IJ, Krtschovsky SB, Lackner KJ, Li X, Lieb W, Lohman K, Meisinger C, Melzer D, Mohler ER 3rd, Mudnic I, Mueller T, Navis G, Oberholzer F, Olin JW, O'Connell J, O'Donnell CJ, Palmas W, Penninx BW, Petersmann A, Polasek O, Psaty BM, Rantner B, Rice K, Rivadeneira F, Rotter JI, Seldenrijk A, Stadler M, Summerer M, Tanaka T, Tybjaerg-Hansen A, Uitterlinden AG, van Gilst WH, Vermeulen SH, Wild SH, Wild PS, Willeit J, Zeller T, Zemunik T, Zgaga L, Assimes TL, Blankenberg S, Boerwinkle E, Campbell H, Cooke JP, de Graaf J, Herrington D, **Kardia SL**, Mitchell BD, Murray A, Münzel T, Newman AB, Oostra BA, Rudan I, Shuldiner AR, Snieder H, van Duijn CM, Völker U, Wright AF, Wichmann HE, Wilson JF, Witteman JC, Liu Y, Hayward C, Borecki IB, Ziegler A, North KE, Cupples LA, Kronenberg F (2012) Association between chromosome 9p21 variants and the Ankle-

brachial Index identified by a meta-analysis of 21 genome-wide association studies. *Circulation Cardiovascular Genetics* 5(1):100-112. PMID: 22199011. PMCID: PMC3303225

167. Chen L-S, Saccone NL, Culverhouse RC, Bracci PM, Chen C-H, Dueker N, Han Y, Huang H, Jin G, Kohno T, Ma JZ, Przybeck T, Sanders AR, Smith JA, Sung YJ, Wenzlaff AS, Wu C, Yoon D, Chen Y-T, Cheng Y-C, Cho YS, Duan J, Goate A, Gu D, Hansen HM, Hartz S, Hu Z, Kim YJ, Kittner SJ, Levinson DF, Mosley TH, Payne TJ, Rao DC, Rice J, Rice TK, Schwantes-An T-H, Shete SS, Shi J, Spitz MR, Sun YV, Tsai F-J, Wang JC, Wrensch MR, Xian H, Gejman PV, He J, Hunt SC, **Kardia SL**, Li MD, Lin D, Mitchell BD, Park T, Schwartz AG, Shen H, Wiencke JK, Wu J-Y, Yokota J, Amos CI, Bierut LJ (2012) Smoking and Genetic Risk Variation across Populations of European, Asian, and African Ancestry - A Meta-analysis of Chromosome 15q25. *Genetic Epidemiology* 36(4):340-351. PMID: 22539395. PMCID: PMC3387741
168. Pattaro C, Köttgen A, Teumer A, Garnaas M, Böger Cam Fuchsberger C, Olden, M, Chen MH, Tin A, Taliun D, Li M, Gao X, Gorski M, Yang Q, Hundertmark C, Foster MC, O'Seaghda CM, Glazer N, Isaacs A, Liu CT, Smith AV, O'Connell JR, Struchalin M, Tanaka T, Li G, Johnson AD, Gierman HJ, Feitosa M, Hwang SJ, Atkinson EJ, Lohman K, Cornelis MC, Johansson Å, Tönjes A, Dehghan A, Chouraki V, Holliday EG, Sorice R, Katalik Z, Lehtimäki T, Esko T, Deshmukh H, Ulivi S, Chu AY, Murgia F, Trompet S, Imboden M, Kollerits B, Pistis G; CARDIoGRAM Consortium; ICBP Consortium; CARE Consortium; Wellcome Trust Case Control Consortium 2 (WTCCC2), Harris TB, Launer LJ, Aspelund T, Eiriksdottir G, Mitchell BD, Boerwinkle E, Schmidt H, Cavalieri M, Rao M, Hu FB, Demirkiran A, Oostra BA, de Andrade M, Turner ST, Ding J, Andrews JS, Freedman BI, Koenig W, Illig T, Döring A, Wichmann HE, Kolcic I, Zemunik T, Boban M, Minelli C, Wheeler HE, Igl W, Zaboli G, Wild SH, Wright AF, Campbell H, Ellinghaus D, Nöthlings U, Jacobs G, Biffar R, Endlich K, Ernst F, Homuth G, Kroemer HK, Nauck M, Stracke S, Völker U, Völzke H, Kovacs P, Stumvoll M, Mägi R, Hofman A, Uitterlinden AG, Rivadeneira F, Aulchenko YS, Polasek O, Hastie N, Vitart V, Helmer C, Wang JJ, Ruggiero D, Bergmann S, Kähönen M, Viikari J, Nikopensius T, Province M, Ketkar S, Colhoun H, Doney A, Robino A, Giulianini F, Krämer BK, Portas L, Ford I, Buckley BM, Adam M, Thun GA, Paulweber B, Haun M, Sala C, Metzger M, Mitchell P, Ciullo M, Kim SK, Vollenweider P, Raitakari O, Metspalu A, Palmer C, Gasparini P, Pirastu M, Jukema JW, Probst-Hensch NM, Kronenberg F, Toniolo D, Gudnason V, Shuldiner AR, Coresh J, Schmidt R, Ferrucci L, Siscovick DS, van Duijn CM, Borecki I, **Kardia SL**, Liu Y, Curhan GC, Rudan I, Gyllensten U, Wilson JF, Franke A, Pramstaller PP, Rettig R, Prokopenko I, Witteman JC, Hayward C, Ridker P, Parsa A, Bochud M, Heid IM, Goessling W, Chasman DI, Kao WH, Fox CS (2012) Genome-Wide association and functional follow-up reveals new Loci for kidney function. *PLoS Genetics* 8(3):e1002584. PMID: 22479191. PMCID: PMC3315455
169. Manning AK, Hivert MF, Scott RA, Grimsby JL, Bouatia-Naji N, Chen H, Rybin D, Liu CT, Bielak LF, Prokopenko I, Amin N, Barnes D, Cadby G, Hottenga JJ, Ingelsson

E, Jackson AU, Johnson T, Kanoni S, Ladenvall C, Lagou V, Lahti J, Lecoeur C, Liu Y, Martinez-Larrad MT, Montasser ME, Navarro P, Perry JR, Rasmussen-Torvik LJ, Salo P, Sattar N, Shungin D, Strawbridge RJ, Tanaka T, van Duijn CM, An P, de Andrade M, Andrews JS, Aspelund T, Atalay M, Aulchenko Y, Balkau B, Bandinelli S, Beckmann JS, Beilby JP, Bellis C, Bergman RN, Blangero J, Boban M, Boehnke M, Boerwinkle E, Bonnycastle LL, Boomsma DI, Borecki IB, Böttcher Y, Bouchard C, Brunner E, Budimir D, Campbell H, Carlson O, Chines PS, Clarke R, Collins FS, Corbatón-Anchuelo A, Couper D, de Faire U, Dedoussis GV, Deloukas P, Dimitriou M, Egan JM, Eiriksdottir G, Erdos MR, Eriksson JG, Eury E, Ferrucci L, Ford I, Forouhi NG, Fox CS, Franzosi MG, Franks PW, Frayling TM, Froguel P, Galan P, de Geus E, Gigante B, Glazer NL, Goel A, Groop L, Gudnason V, Hallmans G, Hamsten A, Hansson O, Harris TB, Hayward C, Heath S, Hercberg S, Hicks AA, Hingorani A, Hofman A, Hui J, Hung J, Jarvelin MR, Jhun MA, Johnson PC, Jukema JW, Jula A, Kao WH, Kaprio J, **Kardia SL**, Keinanen-Kiukaanniemi S, Kivimaki M, Kolcic I, Kovacs P, Kumari M, Kuusisto J, Kyvik KO, Laakso M, Lakka T, Lannfelt L, Lathrop GM, Launer LJ, Leander K, Li G, Lind L, Lindstrom J, Lobbens S, Loos RJ, Luan J, Lyssenko V, Mägi R, Magnusson PK, Marmot M, Meneton P, Mohlke KL, Mooser V, Morken MA, Miljkovic I, Narisu N, O'Connell J, Ong KK, Oostra BA, Palmer LJ, Palotie A, Pankow JS, Peden JF, Pedersen NL, Pehlic M, Peltonen L, Penninx B, Pericic M, Perola M, Perusse L, Peyser PA, Polasek O, Pramstaller PP, Province MA, Räikkönen K, Rauramaa R, Rehnberg E, Rice K, Rotter JI, Rudan I, Ruokonen A, Saaristo T, Sabater-Lleal M, Salomaa V, Savage DB, Saxena R, Schwarz P, Seedorf U, Sennblad B, Serrano-Rios M, Shuldiner AR, Sijbrands EJ, Siscovick DS, Smit JH, Small KS, Smith NL, Smith AV, Stančáková A, Stirrups K, Stumvoll M, Sun YV, Swift AJ, Tönjes A, Tuomilehto J, Trompet S, Uitterlinden AG, Uusitupa M, Vikström M, Vitart V, Vohl MC, Voight BF, Vollenweider P, Waeber G, Waterworth DM, Watkins H, Wheeler E, Widen E, Wild SH, Willemse SM, Willemse G, Wilson JF, Witteman JC, Wright AF, Yaghootkar H, Zelenika D, Zemunik T, Zgaga L; DIAbetes Genetics Replication And Meta-analysis (DIAGRAM) Consortium; Multiple Tissue Human Expression Resource (MUTHER) Consortium, Wareham NJ, McCarthy MI, Barroso I, Watanabe RM, Florez JC, Dupuis J, Meigs JB, Langenberg C (2012) A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. *Nature Genetics* 44(6):659-669. PMID: 22581228. PMCID: PMC3613127

170. Taylor JY, Wu CY, Darling D, Sun YV, **Kardia SL**, Jackson JS (2012) Gene-environment effects of SLC4A5 and skin color on blood pressure among African American women. *Ethnicity and Disease* 22(2):155-161. PMID: 22764636; PMCID: PMC3391738
171. Zhao W, Wineinger NE, Tiwari HK, Mosley TH, Broeckel U, Arnett DK, **Kardia SL**, Kabagambe EK, Sun YV (2012) Copy Number Variations Associated with Obesity-Related Traits in African Americans: A Joint Analysis between GENOA and HyperGEN. *Obesity* 20(12):2431-2437. PMID: 22836685. PMCID: PMC3484176
172. Chasman DI, Fuchsberger C, Pattaro C, Teumer A, Boger CA, Endlich K, Olden M, Chen MH, Tin A, Taliun D, Li M, Gao X, Gorski M, Yang Q, Hundertmark C, Foster MC, O'Seaghdha CM, Glazer N, Isaacs A, Liu CT, Smith AV, O'Connell JR, Struchalin

M, Tanaka T, Li G, Johnson AD, Gierman HJ, Feitosa MF, Hwang SJ, Atkinson EJ, Lohman K, Cornelis MC, Johansson A, Tönjes A, Dehghan A, Lambert JC, Holliday EG, Sorice R, Kutalik Z, Lehtimäki T, Esko T, Deshmukh H, Uliivi S, Chu AY, Murgia F, Trompet S, Imboden M, Coassini S, Pistis G; CARDIoGRAM Consortium; ICBP Consortium; CARE Consortium; WTCCC2, Harris TB, Launer LJ, Aspelund T, Eiriksdottir G, Mitchell BD, Boerwinkle E, Schmidt H, Cavalieri M, Rao M, Hu F, Demirkan A, Oostra BA, de Andrade M, Turner ST, Ding J, Andrews JS, Freedman BI, Giulianini F, Koenig W, Illig T, Meisinger C, Gieger C, Zgaga L, Zemunik T, Boban M, Minelli C, Wheeler HE, Igl W, Zaboli G, Wild SH, Wright AF, Campbell H, Ellinghaus D, Nöthlings U, Jacobs G, Biffar R, Ernst F, Homuth G, Kroemer HK, Nauck M, Stracke S, Völker U, Völzke H, Kovacs P, Stumvoll M, Mägi R, Hofman A, Uitterlinden AG, Rivadeneira F, Aulchenko YS, Polasek O, Hastie N, Vitart V, Helmer C, Wang JJ, Stengel B, Ruggiero D, Bergmann S, Kähönen M, Viikari J, Nikopentius T, Province M, Ketkar S, Colhoun H, Doney A, Robino A, Krämer BK, Portas L, Ford I, Buckley BM, Adam M, Thun GA, Paulweber B, Haun M, Sala C, Mitchell P, Ciullo M, Kim SK, Vollenweider P, Raitakari O, Metspalu A, Palmer C, Gasparini P, Pirastu M, Jukema JW, Probst-Hensch NM, Kronenberg F, Toniolo D, Gudnason V, Shuldiner AR, Coresh J, Schmidt R, Ferrucci L, Siscovick DS, van Duijn CM, Borecki IB, **Kardia SL**, Liu Y, Curhan GC, Rudan I, Gyllensten U, Wilson JF, Franke A, Pramstaller PP, Rettig R, Prokopenko I, Witteman J, Hayward C, Ridker PM, Parsa A, Bochud M, Heid IM, Kao WH, Fox CS, Köttgen A (2012) Integration of Genome-Wide Association Studies with Biological Knowledge Identifies Six Novel Genes Related to Kidney Function. *Human Molecular Genetics* 21(24):5329-5343. PMID: 22962313. PMCID: PMC3607468

173. Schifano ED, Epstein MP, Bielak LF, Jhun MA, **Kardia SL**, Peyser PA, Lin X (2012) SNP Set Association Analysis for Familial Data. *Genetic Epidemiology* 36(8):797-810 PMID:22968922. PMCID: PMC3683469
174. Lin CC, Chen CC, Kung PT, Li CI, Yang SY, Liu CS, Lin WY, Lee CC, Li TC, **Kardia SL** (2012) Joint relationship between renal function and proteinuria on mortality of patients with type 2 diabetes: The Taichung Diabetes Study. *Cardiovascular Diabetology* 11:131. PMID: 23083001. PMCID: PMC3515506
175. Fox ER, Musani SK, Barbalic M, Lin h, Yu B, Ogunyankin KO, Smith NL, Kutlar A, Glzer NL, Post WS, Paltoo DN, Dries DL, Farlow DN, Duarte CW, **Kardia SL**, Meyers KJ, Sun YV, Arnett DK, Patki AA, Sha J, Cui X, Samdarshi TE, Penman AD, Bibbins-Domingo K, Bůžková P, Benjamin EJ, Bluemke DA, Morrison AC, Heiss G, Carr JJ, Tracy RP, Mosley TH, Taylor HA, Psaty BM, Heckbert SR, Cappola TP, Vasan RS (2013) Genome-Wide Association Study of Cardiac Structure and Systolic Function in African Americans: The Candidate Gene Association Resource (CARE) Study. *Circulation Cardiovascular Genetics* 6(1):37-46. PMID: 23275298. PMCID: PMC3591479
176. Cassidy-Bushrow AE, Bielak LF, Levin AM, Sheedy PF 2<sup>nd</sup>, Turner ST, Boerwinkle E, Lin X, **Kardia SL**, Peyser PA (2013) Matrix Gla Protein Gene Polymorphism is

Associated with Increased Coronary Artery Calcification Progression. *Arteriosclerosis Thrombosis Vascular Biology* 33(3):645-651 PMID: 23307874. PMCID: PMC3586431

177. Hek K, Demirkan A, Lahti J, Terracciano A, Teumer A, Cornelis MC, Amin N, Bakshis E, Baumert J, Ding J, Liu Y, Marciante K, Meirelles O, Nalls MA, Sun YV, Vogelzangs N, Yu L, Bandinelli S, Benjamin EJ, Bennett DA, Boomsma D, Cannas A, Coker LH, de Geus E, De Jager PL, Diez-Roux AV, Purcell S, Hu FB, Rimm EB, Hunter DJ, Jensen MK, Curhan G, Rice K, Penman AD, Rotter JI, Sotoodehnia N, Emeny R, Eriksson JG, Evans DA, Ferrucci L, Fornage M, Gudnason V, Hofman A, Illig T, **Kardia S**, Kelly-Hayes M, Koenen K, Kraft P, Kuningas M, Massaro JM, Melzer D, Mulas A, Mulder CL, Murray A, Oostra BA, Palotie A, Penninx B, Petersmann A, Pilling LC, Psaty B, Rawal R, Reiman EM, Schulz A, Shulman JM, Singleton AB, Smith AV, Sutin AR, Uitterlinden AG, Völzke H, Widen E, Yaffe K, Zonderman AB, Cucca F, Harris T, Ladwig KH, Llewellyn DJ, Räikkönen K, Tanaka T, van Duijn CM, Grabe HJ, Launer LJ, Lunetta KL, Mosley TH Jr, Newman AB, Tiemeier H, Murabito J (2013) A Genome-Wide Association Study of Depressive Symptoms. *Biological Psychiatry* 73(7):667-678. PMID: 23290196. PMCID: PMC3845085
178. Monda KL, Khen GK, Taylor KC, Palmer C, Edwards TL, Lange LA, Ng MC, Adeyemo AA, Allison MA, Bielak LF, Chen G, Graff M, Irvin MR, Rhie SK, Li G, Liu Y, Liu Y, Lu Y, Nalls MA, Sun YV, Wojczynski MK, Yanek LR, Aldrich MC, Ademola A, Amos CI, Bandera EV, Bock CH, Britton A, Broeckel U, Cai Q, Caporaso NE, Carlson CS, Carpten J, Casey G, Chen WM, Chen F, Chen YD, Chiang CW, Coetzee GA, Demerath E, Deming-Halverson SL, Driver RW, Dubbert P, Feitosa MF, Feng Y, Freedman BI, Gillanders EM, Gottesman O, Guo X, Haritunians T, Harris T, Harris CC, Hennis AJ, Hernandez DG, McNeill LH, Howard TD, Howard BV, Howard VJ, Johnson KC, Kang SJ, Keating BJ, Kolb S, Kuller LH, Kutlar A, Langefeld CD, Lettre G, Lohman K, Lotay V, Lyon H, Manson JE, Maixner W, Meng YA, Monroe KR, Morhason-Bello I, Murphy AB, Mychaleckyj JC, Nadukuru R, Nathanson KL, Nayak U, N'diaye A, Nemeshure B, Wu SY, Leske MC, Neslund-Dudas C, Neuhouser M, Nyante S, Ochs-Balcom H, Ogunniyi A, Ogundiran TO, Ojengbede O, Olopade OI, Palmer JR, Ruiz-Narvaez EA, Palmer ND, Press MF, Rampersaud E, Rasmussen-Torvik LJ, Rodriguez-Gil JL, Salako B, Schadt EE, Schwartz AG, Shriner DA, Siscovick D, Smith SB, Wassertheil-Smoller S, Speliotes EK, Spitz MR, Sucheston L, Taylor H, Tayo BO, Tucker MA, Van Den Berg DJ, Edwards DR, Wang Z, Wiencke JK, Winkler TW, Witte JS, Wrensch M, Wu X, Yang JJ, Levin AM, Young TR, Zakai NA, Cushman M, Zanetti KA, Zhao JH, Zhao W, Zheng Y, Zhou J, Ziegler RG, Zmuda JM, Fernandes JK, Gilkeson GS, Kamen DL, Hunt KJ, Spruill IJ, Ambrosone CB, Ambs S, Arnett DK, Atwood L, Becker DM, Berndt SI, Bernstein L, Blot WJ, Borecki IB, Bottinger EP, Bowden DW, Burke G, Chanock SJ, Cooper RS, Ding J, Duggan D, Evans MK, Fox C, Garvey WT, Bradfield JP, Hakonarson H, Grant SF, Hsing A, Chu L, Hu JJ, Huo D, Ingles SA, John EM, Jordan JM, Kabagambe EK, **Kardia SL**, Kittles RA, Goodman PJ, Klein EA, Kolonel LN, Le Marchand L, Liu S, McKnight B, Millikan RC, Mosley TH, Padhukasahasram B, Williams LK, Patel SR, Peters U, Pettaway CA, Peyser PA, Psaty BM, Redline S, Rotimi CN, Rybicki BA, Sale MM, Schreiner PJ, Signorello

- LB, Singleton AB, Stanford JL, Strom SS, Thun MJ, Vitolins M, Zheng W, Moore JH, Williams SM, Ketkar S, Zhu X, Zonderman AB;NABEC Consortium; UKBEC Consortium; BioBank Japan Project; AGEN Consortium, Kooperberg C, Papanicolaou GJ, Henderson BE, Reiner AP, Hirschhorn JN, Loos RJ, North KE, Haiman CA (2013) A meta-analysis identifies new loci associated with body mass index in individuals of African ancestry. *Nature Genetics* 45(6):690-696 PMID: 23583978. PMCID: PMC3694490
179. Palmer ND, Musani SK, Yerges-Armstrong LM, Feitosa MF, Bielak LF, Hernaez R, Kahali B, Carr JJ, Harris TB, Jhun MA, **Kardia SLR**, Langefeld CD, Mosley Jr, TH, Norris JM, Smith AV, Taylor HA, Wagenknecht LE, Liu J, Borecki IB, Peyser PA, Speliotes EK (2013) Characterization of European ancestry nonalcoholic fatty liver disease-associated variants in individuals of African and Hispanic descent. *Hepatology* J 58(3):966-975 PMID: 23564467. PMCID: PMC3694490
180. Rietveld CA, Medland SE, Derringer J, Yang J, Esko T, Martin NW, Westra HJ, Shakhbazov K, Abdellaoui A, Agrawal A, Albrecht E, Alizadeh BZ, Amin N, Barnard J, Baumeister SE, Benke KS, Bielak LF, Boatman JA, Boyle PA, Davies G, de Leeuw C, Eklund N, Evans DS, Ferhmann R, Fischer K, Gieger C, Gjessing HK, Hägg S, Harris JR, Hayward C, Holzapfel C, Ibrahim-Verbaas CA, Ingelsson E, Jacobsson B, Joshi PK, Jugessur A, Kaakinen M, Kanoni S, Karjalainen J, Kolcic I, Kristiansson K, Kutalik Z, Lahti J, Lee SH, Lin P, Lind PA, Liu Y, Lohman K, Loitsfelder M, McMahon G, Vidal PM, Meirelles O, Milani L, Myhre R, Nuotio ML, Oldmeadow CJ, Petrovic KE, Peyrot WJ, Polasek O, Quaye L, Reinmaa E, Rice JP, Rizzi TS, Schmidt H, Schmidt R, Smith AV, Smith JA, Tanaka T, Terracciano A, van der Loos MJ, Vitart V, Völzke H, Wellmann J, Yu L, Zhao W, Allik J, Attia JR, Bandinelli S, Bastardot F, Beauchamp J, Bennett DA, Berger K, Bierut LJ, Boomsma DI, Bültmann U, Campbell H, Chabris CF, Cherkas L, Chung MK, Cucca F, de Andrade M, De Jager PL, De Neve JE, Deary IJ, Dedoussis GV, Deloukas P, Dimitriou M, Eiríksdóttir G, Elderson MF, Eriksson JG, Evans DM, Faul JD, Ferrucci L, Garcia ME, Grönberg H, Guðnason V, Hall P, Harris JM, Harris TB, Hastie ND, Heath AC, Hernandez DG, Hoffmann W, Hofman A, Holle R, Holliday EG, Hottenga JJ, Iacono WG, Illig T, Järvelin MR, Kähönen M, Kaprio J, Kirkpatrick RM, Kowgier M, Latvala A, Launer LJ, Lawlor DA, Lehtimäki T, Li J, Lichtenstein P, Lichtner P, Liewald DC, Madden PA, Magnusson PK, Mäkinen TE, Masala M, McGue M, Metspalu A, Mielck A, Miller MB, Montgomery GW, Mukherjee S, Nyholt DR, Oostra BA, Palmer LJ, Palotie A, Penninx BW, Perola M, Peyser PA, Preisig M, Räikkönen K, Raitakari OT, Realo A, Ring SM, Ripatti S, Rivadeneira F, Rudan I, Rustichini A, Salomaa V, Sarin AP, Schlessinger D, Scott RJ, Snieder H, St Pourcain B, Starr JM, Sul JH, Surakka I, Svento R, Teumer A; LifeLines Cohort Study, Tiemeier H, van Rooij FJ, Van Wagoner DR, Vartiainen E, Viikari J, Vollenweider P, Vonk JM, Waeber G, Weir DR, Wichmann HE, Widen E, Willemse G, Wilson JF, Wright AF, Conley D, Davey-Smith G, Franke L, Groenen PJ, Hofman A, Johannesson M, **Kardia SL**, Krueger RF, Laibson D, Martin NG, Meyer MN, Posthuma D, Thurik AR, Timpson NJ, Uitterlinden AG, van Duijn CM, Visscher PM, Benjamin DJ, Cesaroni D, Koellinger PD (2013) GWAS of 126,559 individuals identifies genetic variants associated with educational attainment. *Science* 340(6139):1467-1471. PMID: 23722424. PMCID: PMC3751588

181. Platt J, Bollinger J, Dvoskin R, **Kardia SL**, Kaufman D (2013) Public preferences regarding informed consent models for participation in population-based genomic research. *Genetics in Medicine* 16(1):11-18 PMID: 23660530. PMCID: PMC3904287
182. Weissgerber TL, Turner ST, Bailey KR, Mosley TH Jr, **Kardia SL**, Wiste HJ, Miller VM, Kullo IJ, Garovic VD (2013) Hypertension in pregnancy is a risk factor for peripheral arterial disease decades after pregnancy. *Atherosclerosis* 229(1):212-216 PMID: 23659871. PMCID: PMC3694211
183. Sun YV, Smith AK, Conneely KN, Chang Q, Li W, Lazarus A, Smith JA, Almli LM, Binder EB, Klengel T, Cross D, Turner ST, Ressley KJ, **Kardia SL** (2013) Epigenomic association analysis identifies smoking-related DNA methylation sites in African Americans. *Human Genetics* 132(9):1027-1037 PMID: 23657504. PMCID: PMC3744600
184. Franceschini N, Fox E, Zhang, E, Edwards TL, Nalls MA, Sung YJ, Tayo BO, Sun YV, Gottesman O, Adeyemo A, Johnson AD, Young JH, Rice K, Duan Q, Chen F, Li Y, Tang H, Fornage M, Keene KL, Andrews JS, Smith JA, Faul JD, Guangfa Z, Guo W, Liu Y, Murray SS, Musani SK, Srinivasan S, Velez Edwards DR, Wang H, Becker LC, Bovet P, Bochud M, Broeckel U, Burnier M, Carty C, Chasman DI, Ehret G, Chen WM, Chen G, Chen W, Ding J, Dreisbach AW, Evans MK, Guo X, Garcia ME, Jensen R, Keller MF, Lettre G, Lotay V, Martin LW, Moore JH, Morrison AC, Mosley TH, Ogunniyi A, Palmas W, Papanicolaou G, Penman A, Polak JF, Ridker PM, Salako B, Singleton AB, Shriner D, Taylor KD, Vasan R, Wiggins K, Williams SM, Yanek LR, Zhao W, Zonderman AB, Becker DM, Berenson G, Boerwinkle E, Bottinger E, Cushman M, Eaton C, Nyberg F, Heiss G, Hirschhorn JN, Howard VJ, Karczewski KJ, Lanktree MB, Liu K, Liu Y, Loos R, Margolis K, Snyder M; Asian Genetic Epidemiology Network Consortium, Psaty BM, Schork NJ, Weir DR, Rotimi CN, Sale MM, Harris T, **Kardia SL**, Hunt SC, Arnett D, Redline S, Cooper RS, Risch NJ, Rao DC, Rotter JI, Chakravarti A, Reiner AP, Levy D, Keating BJ, Zhu X (2013) Genome-wide Association Analysis of Blood-Pressure Traits in African-Ancestry Individuals Reveals Common Associated Genes in African and Non-African Populations. *American Journal of Human Genetics* 93(3):545-554 PMID: 23972371. PMCID: PMC3769920
185. Polfus LM, Smith JA, Shimmin LC, Bielak LF, Morrison AC, **Kardia SL**, Peyser PA, Hixson JE (2013) Genome-wide association study of gene by smoking interactions in coronary artery calcification. *PLoS One* 9(10):e74642. PMID: 24098343. PMCID: PMC3789744
186. Kattah AG, Asad R, Scantlebury DC, Bailey KR, Wiste HJ, Hunt SC, Mosley TH, **Kardia SL**, Turner ST, Garovic VD (2013) Hypertension in pregnancy is a risk factor for microalbuminuria later in life. *Journal of Clinical Hypertension* 15(9):617-623. PMID: 24034653. PMCID: PMC3775278
187. Brown CM, Turner ST, Bailey KR, Mosley TH Jr, **Kardia SL**, Wiste HJ, Kullo IJ, Garovic VD (2013) Hypertension in pregnancy is associated with elevated C-reactive protein levels later in life. *Journal of Hypertension* 31(11):2213-2219. PMID: 24029867. PMCID:

188. Parsa A, Fuchsberger C, Köttgen A, O'Seaghdha CM, Pattaro C, de Andrade M, Chasman DI, Teumer A, Endlich K, Olden M, Chen MH, Tin A, Kim YJ, Taliun D, Li M, Feitosa M, Gorski M, Yang Q, Hundertmark C, Foster MC, Glazer N, Isaacs A, Rao M, Smith AV, O'Connell JR, Struchalin M, Tanaka T, Li G, Hwang SJ, Atkinson EJ, Lohman K, Cornelis MC, Johansson A, Tönjes A, Dehghan A, Couraki V, Holliday EG, Sorice R, Kutalik Z, Lehtimäki T, Esko T, Deshmukh H, Ulivi S, Chu AY, Murgia F, Trompet S, Imboden M, Kollerits B, Pistis G, Harris TB, Launer LJ, Aspelund T, Eiriksdottir G, Mitchell BD, Boerwinkle E, Schmidt H, Hofer E, Hu F, Demirkan A, Oostra BA, Turner ST, Ding J, Andrews JS, Freedman BI, Giulianini F, Koenig W, Illig T, Döring A, Wichmann HE, Zgaga L, Zemunik T, Boban M, Minelli C, Wheeler HE, Igl W, Zaboli G, Wild SH, Wright AF, Campbell H, Ellinghaus D, Nöthlings U, Jacobs G, Biffar R, Ernst F, Homuth G, Kroemer HK, Nauck M, Stracke S, Völker U, Völzke H, Kovacs P, Stumvoll M, Mägi R, Hofman A, Uitterlinden AG, Rivadeneira F, Aulchenko YS, Polasek O, Hastie N, Vitart V, Helmer C, Wang JJ, Stengel B, Ruggiero D, Bergmann S, Kähönen M, Viikari J, Nikopensius T, Province M, Colhoun H, Doney A, Robino A, Krämer BK, Portas L, Ford I, Buckley BM, Adam M, Thun GA, Paulweber B, Haun M, Sala C, Mitchell P, Ciullo M, Vollenweider P, Raitakari O, Metspalu A, Palmer C, Gasparini P, Pirastu M, Jukema JW, Probst-Hensch NM, Kronenberg F, Toniolo D, Gudnason V, Shuldiner AR, Coresh J, Schmidt R, Ferrucci L, van Duijn CM, Borecki I, **Kardia SL**, Liu Y, Curhan GC, Rudan I, Gyllensten U, Wilson JF, Franke A, Pramstaller PP, Rettig R, Prokopenko I, Witteman J, Hayward C, Ridker PM, Bochud M, Heid IM, Siscovick DS, Fox CS, Kao WL, Böger CA (2013) Common variants in Mendelian kidney disease genes and their association with renal function. *Journal of American Society of Nephrology* 24(12):2105-2107. PMID: 24029420. PMCID: PMC3839542
189. Sun YV, Lazarus A, Smith JA, Chuang YH, Zhao W, Turner ST, **Kardia SL** (2013) Gene-specific DNA methylation association with serum levels of C-reactive protein in African Americans. *PLoS One* 8(8):e73480. PMID: 23977389. PMCID: PMC3747126
190. Liu CT, Monda KL, Taylor KC, Lange L, Demerath EW, Palmas W, Wojczynski MK, Ellis JC, Vitolins MZ, Liu S, Papanicolaou GJ, Irvin MR, Xue L, Griffin PJ, Nalls MA, Adeyemo A, Liu J, Li G, Ruiz-Narvaez EA, Chen WM, Chen F, Henderson BE, Millikan RC, Ambrosone CB, Strom SS, Guo X, Andrews JS, Sun YV, Mosley TH, Yanek LR, Shriner D, Haritunians T, Rotter JI, Speliotes EK, Smith M, Rosenberg L, Mychaleckyj J, Nayak U, Spruill I, Garvey WT, Pettaway C, Nyante S, Bandera EV, Britton AF, Zonderman AB, Rasmussen-Torvik LJ, Chen YD, Ding J, Lohman K, Kritchevsky SB, Zhao W, Peyser PA, **Kardia SL**, Kabagambe E, Broeckel U, Chen G, Zhou J, Wassertheil-Smoller S, Neuhouser ML, Rampersaud E, Psaty B, Kooperberg C, Manson JE, Kuller LH, Ochs-Balcom HM, Johnson KC, Sucheston L, Ordovas JM, Palmer JR, Haiman CA, McKnight B, Howard BV, Becker DM, Bielak LF, Liu Y, Allison MA, Grant SF, Burke GL, Patel SR, Schreiner PJ, Borecki IB, Evans MK, Taylor H, Sale MM, Howard V, Carlson CS, Rotimi CN, Cushman M, Harris TB, Reiner AP, Cupples LA, North KE, Fox CS (2013) Genome-wide association of body fat distribution in African ancestry populations suggests new loci. *PloS Genetics* 9(8): e1003681. PMID: 23966867. PMCID:

191. Platt JE, Platt T, Thiel D, **Kardia SL** (2013) ‘Born in Michigan? You’re in the biobank’: engaging population biobank participants through Facebook advertisements. *Public Health Genomics* 16(4):145-158. PMID: 23796763. PMCID: PMC4961047
192. White WM, Turner ST, Bailey KR, Mosley TH Jr, **Kardia SL**, Wiste HJ, Kullo IJ, Garovic VD (2013) Hypertension in pregnancy is associated with elevated homocysteine levels later in life. *American Journal of Obstetrics and Gynecology* 209(5):454.e1-7. PMID:23794689. PMCID: PMC3825794
193. Bomotti SM, Smith JA, Zagel AL, Taylor JY, Turner ST, **Kardia SL** (2013) Epigenetic markers of renal function in African americans. *Nursing Research Practice* 2013:687519. PMID: 24396594. PMCID: PMC3874945
194. Modell SM, **Kardia SL**, Citrin T (2013) Stakeholder consultation insights on the future of genomics at the clinical-public health interface. *Translational Research* 163(5):466-77. PMID: 24434657
195. Modell SM, Citrin T, King SB, **Kardia SL** (2014) The Role of Religious Values in Decisions about Genetics and the Public’s Health. *Journal of Religion and Health* 53(3):702-714. PMID: 24510076
196. Chen CT, Liu CT, Chen GK, Andrews JS, Arnold AM, Dreyfus J, Franceschini N, Garcia ME, Kerr KF, Li G, Lohman KK, Musani SK, Nalls MA, Raffel LJ, Smith J, Ambrosone CB, Bandera EV, Bernstein L, Britton A, Brzyski RG, Cappola A, Carlson CS, Couper D, Deming SL, Goodarzi MO, Heiss G, John EM, Lu X, Le Marchand L, Marciante K, McKnight B, Millikan R, Nock NL, Olshan AF, Press MF, Vaiyda D, Woods NF, Taylor HA, Zhao W, Zheng W, Evans MK, Harris TB, Henderson BE, **Kardia SL**, Kooperberg C, Liu Y, Mosley TH, Psaty B, Wellons M, Windham BG, Zonderman AB, Cupples LA, Demerath EW, Haiman C, Murabito JM, Rajkovic A (2014) Meta-analysis of loci associated with age at natural menopause in African-American women. *Human Molecular Genetics* 23(12):3327-3342. PMID: 24493794. PMCID: PMC4030781
197. Perry JR, Hsu YH, Chasman DI, Johnson AD, Elks C, Albrecht E, Andrulis IL, Beesley J, Berenson GS, Bergmann S, Bojesen SE, Bolla MK, Brown J, Burring JE, Campbell H, Chang-Claude J, Chevevix-Trench G, Corre T, Couch FJ, Cox A, Czene K, D’adamo AF, Davies G, Deary IJ, Dennis J, Easton DF, Engelhardt EG, Eriksson JG, Esko T, Fasching PA, Figueroa JD, Flyger H, Fraser A, Garcia-Closas M, Gasparini P, Gieger C, Giles G, Guenel P, Hagg S, Hall P, Hayward C, Hopper J, Ingelsson E, KConFab investigators, **Kardia SL**, Kasiman K, kNight JA, Lahti J, Lawlor DA, Magnusson PK, Margolin S, Marsh JA, Metspalu A, Olson JE, Pennell CE, Polasek O, Rahman I, Ridker PM, Robino A, Rudan I, Rudolph A, Salumets A, Schmidt MK, Schoemaker MJ, Smith EN, Smith JA, Southey M, Stockl D, Swerdlow AJ, Thompson DJ, Truong T, Ulivi S, Waldenberger M, Wang Q, Wild S, Wilson JF, Wright AF, Zgaga L, Sonsortium R, Ong KK, Murabito JM, Karasik D, Murray A (2014) DNA mismatch repair gene MSH6 implicated in determining

- age at natural menopause. *Human Molecular Genetics* 23(9):2490-2497. PMID: 24357391. PMCID: PMC3976329
198. Sung YJ, Schwander K, Arnett DK, **Kardia SL**, Rankinen T, Bouchard C, Boerwinkle E, Hunt SC, Rao DC (2014) An empirical comparison of meta-analysis and mega-analysis of individual participant data for identifying gene-environment interactions. *Genetic Epidemiology* 38(4):369-378. PMID: 24719363. PMCID: PMC4332385
  199. Modell SM, King SB, Citrin T, **Kardia SL** (2014) Phase changes in the BRCA policy domain. *Journal of Religion and Health*. 53(3):715-724. PMID: 24599711
  200. Lieske JC, Turner ST, Edeh SN, Smith JA, **Kardia SL** (2014) Heritability of urinary traits that contribute to nephrolithiasis. *Clinical Journal of American Society of Nephrology* 9(5):943-950. PMID: 24578335; PMCID: PMC4011445
  201. Lin CC, Peyser PA, **Kardia SL**, Li CI, Liu CS, Chu JS, Lin WY, Li TC (2014) Heritability of cardiovascular risk factors in a Chinese population – Taichung Community Health Study and Family Cohort. *Atherosclerosis* 235(2):488-495. PMID: 24953488
  202. Thiel DB, Platt T, Platt J, King SB, **Kardia SL** (2014) Community perspectives on public health biobanking: an analysis of community meetings on the Michigan BioTrust for Health. *Journal of Community Genetics* 5(2):125-138. PMID: 23893769. PMCID: PMC3955459
  203. Kraja AT, Chasman DI, North KE, Reiner AP, Yanek LR, Kilpeläinen TO, Smith JA, Dehghan A, Dupuis J, Johnson AD, Feitosa MF, Tekola-Ayele F, Chu AY, Nolte IM, Dastani Z, Morris A, Pendergrass SA, Sun YV, Ritchie MD, Vaez A, Lin H, Lighart S, Marullo L, Rohde R, Shao Y, Ziegler MA, Im HK; Cross Consortia Pleiotropy (XC-Pleiotropy) Group; the Cohorts for Heart and; Aging Research in Genetic Epidemiology (CHARGE); the Genetic Investigation of Anthropometric Traits (GIANT) Consortium; the Global Lipids Genetics Consortium (GLGC); the Meta-Analyses of Glucose; Insulin-related traits Consortium (MAGIC); the Global BPgen (GBPG) Consortium; The ADIPOGen Consortium; the Women's Genome Health Study (WGHS); the Howard University Family Study (HUFFS), Schnabel RB, Jørgensen T, Jørgensen ME, Hansen T, Pedersen O, Stolk RP, Snieder H, Hofman A, Uitterlinden AG, Franco OH, Ikram MA, Richards JB, Rotimi C, Wilson JG, Lange L, Ganesh SK, Nalls M, Rasmussen-Torvik LJ, Pankow JS, Coresh J, Tang W, Linda Kao WH, Boerwinkle E, Morrison AC, Ridker PM, Becker DM, Rotter JI, **Kardia SL**, Loos RJ, Larson MG, Hsu YH, Province MA, Tracy R, Voight BF, Vaidya D, O'Donnell CJ, Benjamin EJ, Alizadeh BZ, Prokopenko I, Meigs JB, Borecki IB (2014) Pleiotropic genes for metabolic syndrome and inflammation. *Molecular Genetics and Metabolism* 112(4):317-338. PMID: 24981077. PMCID: PMC4122618
  204. Platt T, Platt J, Thiel DB, Fisher N, **Kardia SL** (2014) 'Cool! And creepy': engaging with college student stakeholders in Michigan's biobank. *Journal of Community Genetics* 5(4):349-362. PMID: 24916145. PMCID: PMC4159476

205. Kim DS, Smith JA, Bielak LF, Wu CY, Sun YV, Sheedy PF, Turner ST, Peyser PA, **Kardia SL** (2014) The relationship between diastolic blood pressure and coronary artery calcification is dependent on single nucleotide polymorphisms on chromosome 9p21.3. *BMC Medical Genetics* 15(1):89. PMID:25185447. PMCID: PMC4168694
206. Ko YA, Mukherjee B, Smith JA, Park SK, **Kardia SL**, Allison MA, Vokonas PA, Chen J, Diez-Roux AV (2014) Testing departure from additivity in Tukey's model using shrinkage: application to a longitudinal setting. *Statistics in Medicine* 23(29): 5177-5191. PMID: 25112650. PMCID: PMC4227925
207. Smith JA, Zagel AL, Sun YV, Dolinoy DC, Bielak LF, Peyser PA, Turner ST, Mosley TH Jr, **Kardia SL** (2014) Epigenomic indicators of age in African Americans. *Heredity Genetics* 3(3). pii: 137. PMID: 26807331
208. Liao LN, Chen CC, Wu FY, Lin CC, Hsiao JH, Chang CT, **Kardia SL**, Li TC, Tsai FJ (2014) Identified single-nucleotide polymorphisms and haplotypes at 16q22.1 increase diabetic nephropathy risk in Han Chineses population. *BMC Genetics* 15:113. PMID: 25359423. PMCID: PMC4222374
209. Bihlmeyer NA, Brody JA, Smith A, Lunetta KL, Nalls M, Smith JA, Tanaka T, Davies G, Yu L, Mirza S, Teumer A, Coresh J, Pankow JS, Franceschini N, Scaria A, Oshima J, Psaty BM, Gudnason V, Eiriksdottir G, Harris TB, Li H, Karasik D, Kiel DP, Garcia M, Liu Y, Faul JD, **Kardia S**, Zhao W, Ferrucci L, Allerhand M, Liewald DC, Redmond P, Starr JM, De Jager PL, Evans DA, Direk N, Ikram M, Uitterlinden A, Homuth G, Lorbeer R, Grabe HJ, Launer L, Murabito JM, Singleton AB, Weir DR, Bandinelli S, Deary IJ, Bennett DA, Tiemeier H, Kocher T, Lumley T, Arking DE. (2014) Genetic diversity is a predictor of mortality in humans. *BMC Genetics* 15(1):159. PMID: 25543667. PMCID: PMC4301661
210. Gorski M, Tin A, Garnaas M, McMahon GM, Chu AY, Tayo BO, Pattaro C, Teumer A, Chasman DI, Chalmers J, Hamet P, Tremblay J, Woodward M, Aspelund T, Eiriksdottir G, Gudnason V, Harris TB, Launer LJ, Smith AV, Mitchell BD, O'Connell JR, Shuldiner AR, Coresh J, Li M, Freudenberger P, Hofer E, Schmidt H, Schmidt R, Holliday EG, Mitchell P, Wang JJ, de Boer IH, Li G, Siscovick DS, Katalik Z, Corre T, Vollenweider P, Waeber G, Gupta J, Kanetsky PA, Hwang SJ, Olden M, Yang Q, de Andrade M, Atkinson EJ, **Kardia SL**, Turner ST, Stafford JM, Ding J, Liu Y, Barlassina C, Cusi D, Salvi E, Staessen JA, Ridker PM, Grallert H, Meisinger C, Müller-Nurasyid M, Krämer BK, Kramer H, Rosas SE, Nolte IM, Penninx BW, Snieder H, Fabiola Del Greco M, Franke A, Nöthlings U, Lieb W, Bakker SJ, Gansevoort RT, van der Harst P, Dehghan A, Franco OH, Hofman A, Rivadeneira F, Sedaghat S, Uitterlinden AG, Coasson S, Haun M, Kollerits B, Kronenberg F, Paulweber B, Aumann N, Endlich K, Pietzner M, Völker U, Rettig R, Chouraki V, Helmer C, Lambert JC, Metzger M, Stengel B, Lehtimäki T, Lyytikäinen LP, Raitakari O, Johnson A, Parsa A, Bochud M, Heid IM, Goessling W, Köttgen A, Kao WH, Fox CS, Böger CA. (2014) Genome-wide associate study of kidney function decline in individuals of European descent. *Kidney International* 87(5):1017-29. PMID: 25493955. PMCID: PMC4425568

211. Broer L, Buchman AS, Deelen J, Evans DS, Faul JD, Lunetta KL, Sebastiani P, Smith JA, Smith AV, Tanaka T, Yu L, Arnold AM, Aspelund T, Benjamin EJ, De Jager PL, Eirkisdottir G, Evans DA, Garcia ME, Hofman A, Kaplan RC, **Kardia SL**, Kiel DP, Oostra BA, Orwoll ES, Parimi N, Psaty BM, Rivadeneira F, Rotter JI, Seshadri S, Singleton A, Tiemeier H, Titterlinden AG, Zhao W, Bandinelli S, Bennett DA, Ferucci L, Gudnason V, Harris TB, Karasik D, Launer LJ, Peris TT, Slagboom PE, Tranah GJ, Weir DR, Newman AB, van Duijn CM, Murabito JM (2015) GWAS of longevity in CHARGE Consortium confirms APOE and FOXO3 candidacy. *J Gerontol A Biol Sci Med Sci* 70(1): 110-118. PMID: 25199915. PMCID: PMC4296168
212. Thiel DB, Platt J, Platt T, King SB, Fisher N, Shelton R, **Kardia SL** (2015) Testing an online, dynamic consent portal for large population biobank research. *Public Health Genomics.* 18(1):26-39 PMID: 25359560. PMCID: PMC4289420
213. Platt J and **Kardia S** (2015) Public Trust in Health Information Sharing: Implications for Biobanking and Electronic Health Record Systems. *Journal of Perspectives in Medicine* 5(1):3-21. PMID: 25654300. PMCID: PMC4384055
214. Verhaaren BF, Debette S, Bis JC, Smith JA, Ikram MK, Adams HH, Beecham AH, Rajan KB, Lopez LM, Barral S, van Buchem MA, van der Grond J, Smith AV, Hegenscheid K, Aggarwal NT, de Andrade M, Atkinson EJ, Beekman M, Beiser AS, Blanton SH, Boerwinkle E, Brickman AM, Bryan RN, Chauhan G, Chen CP, Chouraki V, de Craen AJ, Crivello F, Deary IJ, Deelen J, De Jager PL, Dufouil C, Elkind MS, Evans DA, Freudenberg P, Gottesman RF, Guðnason V, Habes M, Heckbert SR, Heiss G, Hilal S, Hofer E, Hofman A, Ibrahim-Verbaas CA, Knopman DS, Lewis CE, Liao J, Liewald DC, Luciano M, van der Lugt A, Martinez OO, Mayeux R, Mazoyer B, Nalls MA, Nauck M, Niessen WJ, Oostra BA, Psaty BM, Rice KM, Rotter JI, von Sarnowski B, Schmidt H, Schreiner PJ, Schuur M, Sidney SS, Sigurdsson S, Slagboom PE, Stott DJ, van Swieten JC, Teumer A, Töglhofer AM, Traylor M, Trompet S, Turner ST, Tzourio C, Uh HW, Uitterlinden AG, Vernooij MW, Wang JJ, Wong TY, Wardlaw JM, Windham BG, Wittfeld K, Wolf C, Wright CB, Yang Q, Zhao W, Zijdenbos A, Jukema JW, Sacco RL, **Kardia SL**, Amouyel P, Mosley TH, Longstreth WT Jr, DeCarli CC, van Duijn CM, Schmidt R, Launer LJ, Grabe HJ, Seshadri SS, Ikram MA, Fornage M. (2015) Multi-Ethnic Genome-Wide Association Study of Cerebral White Matter Hyperintensities on MRI. *Circulation Cardiovascular Genetics* (2):398-409. PMID: 25663218. PMCID: PMC4427240
215. Debette S, Ibrahim Verbaas CA, Bressler J, Schuur M, Smith A, Bis JC, Davies G, Wolf C, Guðnason V, Chibnik LB, Yang Q, deStefano AL, de Quervain DJ, Srikanth V, Lahti J, Grabe HJ, Smith JA, Priebe L, Yu L, Karbalai N, Hayward C, Wilson JF, Campbell H, Petrovic K, Fornage M, Chauhan G, Yeo R, Boxall R, Becker J, Stegle O, Mather KA, Chouraki V, Sun Q, Rose LM, Resnick S, Oldmeadow C, Kirin M, Wright AF, Jonsdottir MK, Au R, Becker A, Amin N, Nalls MA, Turner ST, **Kardia SL**, Oostra B, Windham G, Coker LH, Zhao W, Knopman DS, Heiss G, Griswold ME, Gottesman RF, Vitart V, Hastie ND, Zgaga L, Rudan I, Polasek O, Holliday EG, Schofield P, Choi SH, Tanaka T, An Y, Perry RT, Kennedy RE, Sale MM, Wang J, Wadley VG, Liewald DC, Ridker PM, Gow AJ, Pattie A, Starr JM, Porteous D, Liu X, Thomson R, Armstrong NJ, Eiriksdottir G,

- Assareh AA, Kochan NA, Widen E, Palotie A, Hsieh YC, Eriksson JG, Vogler C, van Swieten JC, Shulman JM, Beiser A, Rotter J, Schmidt CO, Hoffmann W, Nöthen MM, Ferrucci L, Attia J, Uitterlinden AG, Amouyel P, Dartigues JF, Amieva H, Räikkönen K, Garcia M, Wolf PA, Hofman A, Longstreth WT Jr, Psaty BM, Boerwinkle E, DeJager PL, Sachdev PS, Schmidt R, Breteler MM, Teumer A, Lopez OL, Cichon S, Chasman DI, Grodstein F, Müller-Myhsok B, Tzourio C, Papassotiropoulos A, Bennett DA, Ikram AM, 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 nondemented older people: The cohorts for heart and aging research in genomic epidemiology consortium. *Biological Psychiatry* 77(8):749-763. PMID: 25648963. PMCID: PMC4513651
216. 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, Le Hellard S, Liu T, Marioni RE, Oldmeadow C, Postmus I, Smith AV, Smith JA, Thalamuthu A, Thomson R, Vitart V, Wang J, Yu L, Zgaga L, Zhao W, Boxall R, Harris SE, Hill WD, Liewald DC, Luciano M, Adams H, Ames D, Amin N, Amouyel P, Assareh AA, Au R, Becker JT, Beiser A, Berr C, Bertram L, Boerwinkle E, Buckley BM, Campbell H, Corley J, De Jager PL, Dufouil C, Eriksson JG, Espeseth T, Faul JD, Ford I, Scotland G, Gottesman RF, Griswold ME, Gudnason V, Harris TB, Heiss G, Hofman A, Holliday EG, Huffman J, **Kardia SL**, Kochan N, Knopman DS, Kwok JB, Lambert JC, Lee T, Li G, Li SC, Loitfelder M, Lopez OL, Lundervold AJ, Lundqvist A, Mather KA, Mirza SS, Nyberg L, Oostra BA, Palotie A, Papenberg G, Pattie A, Petrovic K, Polasek O, Psaty BM, Redmond P, Reppermund S, Rotter JI, Schmidt H, Schuur M, Schofield PW, Scott RJ, Steen VM, Stott DJ, van Swieten JC, Taylor KD, Trollor J, Trompet S, Uitterlinden AG, Weinstein G, Widen E, Windham BG, Jukema JW, Wright AF, Wright MJ, Yang Q, Amieva H, Attia JR, Bennett DA, Brodaty H, de Craen AJ, Hayward C, Ikram MA, Lindenberger U, Nilsson LG, Porteous DJ, Räikkönen K, Reinvang I, Rudan I, Sachdev PS, Schmidt R, Schofield PR, Srikanth V, Starr JM, Turner ST, Weir DR, Wilson JF, van Duijn C, Launer L, Fitzpatrick AL, Seshadri S, Mosley (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):183-192. PMID: 25642295. PMCID: PMC4311425
217. Christensen KD, Roberts JS, Zikmund-Fisher BJ, **Kardia SL**, McBride CM, Linnenbringer E, Green RC; REVEAL Study Group. (2015) Associations between self-referral and health behavior responses to genetic risk information. *Genome Medicine* 7(1):10. PMID: 25642295. PMCID: PMC4311425
218. Musani SK, Fox ER, Kraja A, Bidulescu A, Lieb W, Lin H, Beecham A, Chen MH, Felix JF, Fox CS, Kao WH, **Kardia SL**, Liu CT, Nalls MA, Rundek T, Sacco RL, Smith J, Sun YV, Wilson G, Zhang Z, Mosley TH, Taylor HA. (2015) Genome-wide association analysis of plasma B-type natriuretic peptide in blacks: The Jackson heart study. *Circulation Cardiovascular Genetics* 8(1):122-130. PMID: 25561047. PMCID: PMC4426827
219. Shetty PB, Tang H, Feng T, Tayo B, Morrison AC, **Kardia SL**, Hanis CL, Arnett DK,

- Hunt SC, Boerwinkle E, Rao DC, Cooper RS, Risch N, Zhu X. (2015) Variants for HDL-C, LDL-C, and triglycerides identified from admixture mapping and fine-mapping analysis in African American families. *Circulation Cardiovascular Genetics* 8(1): 106-113. PMID: 25552592. PMCID: PMC4378661
220. Dauriz M, Porneala BC, Guo X, Bielak LF, Peyser PA, Durant NH, Carnethon MR, Bonadonna RC, Bonora E, Bowden DW, Florez JC, Fornage M, Hivert MF, Jacobs DR Jr, Kabagambe EK, Lewis CE, Murabito JM, Rasmussen-Torvik LJ, Rich SS, Vassy JL, Yao J, Carr JJ, **Kardia SL**, Siscovick D, O'Donnell CJ, Rotter JI, Dupuis J, Meigs JB (2015) Association of a 62 variant type 2 diabetes genetic risk score with markers of subclinical atherosclerosis: A transthectic, multicenter study. *Circulation Cardiovascular Genetics* 8(3):507-15. PMID: 25805414. PMCID: PMC4472563
221. Epstein MP, Duncan R, Ware EB, Jhun MA, Bielak LF, Zhao W, Smith JA, Peyser PA, **Kardia SL**, Satten GA (2015) A statistical approach for rare-variant association testing in affected sibships. *American Journal of Human Genetics* 96(4):546-554. PMID: 25799106. PMCID: PMC4385187
222. Ibrahim-Verbaas CA, Bressler J, Debette S, Schuur M, Smith AV, Bis JC, Davies G, Trompet S, Smith JA, Wolf C, Chibnik LB, Liu Y, Vitart V, Kirin M, Petrovic K, Polasek O, Zgaga L, Fawns-Ritchie C, Hoffmann P, Karjalainen J, Lahti J, Llewellyn DJ, Schmidt CO, Mather KA, Chouraki V, Sun Q, Resnick SM, Rose LM, Oldmeadow C, Stewart M, Smith BH, Gudnason V, Yang Q, Mirza SS, Jukema JW, deJager PL, Harris TB, Liewald DC, Amin N, Coker LH, Stegle O, Lopez OL, Schmidt R, Teumer A, Ford I, Karbalai N, Becker JT, Jonsdottir MK, Au R, Fehrmann RS, Herms S, Nalls M, Zhao W, Turner ST, Yaffe K, Lohman K, van Swieten JC, **Kardia SL**, Knopman DS, Meeks WM, Heiss G, Holliday EG, Schofield PW, Tanaka T, Stott DJ, Wang J, Ridker P, Gow AJ, Pattie A, Starr JM, Hocking LJ, Armstrong NJ, McLachlan S, Shulman JM, Pilling LC, Eiriksdottir G, Scott RJ, Kochan NA, Palotie A, Hsieh YC, Eriksson JG, Penman A, Gottesman RF, Oostra BA, Yu L, DeStefano AL, Beiser A, Garcia M, Rotter JI, Nöthen MM, Hofman A, Slagboom PE, Westendorp RG, Buckley BM, Wolf PA, Uitterlinden AG, Psaty BM, Grabe HJ, Bandinelli S, Chasman DI, Grodstein F, Räikkönen K, Lambert JC, Porteous DJ; Generation Scotland, Price JF, Sachdev PS, Ferrucci L, Attia JR, Rudan I, Hayward C, Wright AF, Wilson JF, Cichon S, Franke L, Schmidt H, Ding J, de Craen AJ, Fornage M, Bennett DA, Deary IJ, Ikram MA, Launer LJ, Fitzpatrick AL, Seshadri 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
223. He Z, Zhang M, Lee S, Smith JA, Guo X, Palmas W, **Kardia SL**, Roux AV, Mukherjee B. (2015) Set-based tests for genetic association in longitudinal studies. *Biometrics* 71(3):606-15. Epub 2016 Dec 16. PMID: 29780190; PMCID: PMC5954413
224. Ware EB, Mukherjee B, Sun YV, Diez-Roux AV, **Kardia SL**, 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

225. 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 MF, McArdle PF, Nutile T, Porcu E, Robino A, Rose LM, Schick UM, Smith JA, Teumer A, Traglia M, Vuckovic D, Yao J, Zhao W, Albrecht E, Amin N, Corre T, Hottenga JJ, Mangino M, Smith AV, Tanaka T, Abecasis GR, Andrusis IL, Anton-Culver H, Antoniou AC, Arndt V, Arnold AM, Barbieri C, Beckmann MW, Beeghly-Fadiel A, Benitez J, Bernstein L, Bielinski SJ, Blomqvist C, Boerwinkle E, Bogdanova NV, Bojesen SE, Bolla MK, Borresen-Dale AL, Boutin TS, Brauch H, Brenner H, Brüning T, Burwinkel B, Campbell A, Campbell H, Chanock SJ, Chapman JR, Chen YD, Chenevix-Trench G, Couch, FJ, Coviello AD, Cox A, Czene K, Darabi H, De Vivo I, Demerath EW, Dennis J Devilee P, Dörk T, Dos-Santos-Silva I, Dunning AM, Eicher JD, Fasching PA, Faul JD, Figueroa J, Flesch-Janys D, Gandin I, Garcia ME, García-Closas M, Giles GG, Girotto GG, Goldberg MS, González-Neira A, Goodarzi MO, Grove ML, Gudbjartsson DF, Guénél P, Guo X, Haiman CA, Hall P, Hamann U, Henderson BE, Hocking LJ, Hofman A, Homuth G, Hooning MJ, Hopper JL, Hu FB, Huang J, Humphreys K, Hunter DJ, Jakubowska A, Jones SE, Kabisch M, Karasik D, Knight JA, Kolcic I, Kooperberg C, Kosma VM, Kriebel J, Kristensen V, Lambrechts D, Langenberg C, Li J, Li X, Lindström S, Liu Y, Luan J, Lubinski J, Mägi R, Mannermaa A, Manz J, Margolin S, Marten J, Martin NG, Masciullo C, Meindl A, Michailidou K, Mihailov E, Milani L, Milne RL, Müller-Nurasyid M, Nalls M, Neale BM, Nevanlinna H, Neven P, Newman AB, Nordestgaard BG, Olson JE, Padmanabhan S, Peterlongo P, Peters U, Petersmann A, Peto J, Pharoah PD, Pirastu NN, Pirie A, Pistis G, Polasek O, Porteous D, Psaty BM, Pylkäs K, Radice P, Raffel LJ, Rivadeneira F, Rudan I, Rudolph A, Ruggiero D, Sala CF, Sanna S, Sawyer EJ, Schlessinger D, Schmidt MK, Schmidt F, Schmutzler RK, Schoemaker MJ, Scott RA, Seynaeve CM, Simard J, Sorice R, Southey MC, Stöckl D, Strauch K, Swerdlow A, Taylor KD, Thorsteinsdottir U, Toland AE, Tomlinson I, Truong T, Tryggvadottir L, Turner ST, Vozzi D, Wang Q, Wellons M, Willemse G, Wilson JF, Winqvist R, Wolffenduttel BB, Wright AF, Yannoukakos D, Zemunik T, Zheng W, Zygmunt M, Bergmann S, Boomsma DI, Buring JE, Ferrucci L, Montgomery GW, Gudnason V, Spector TD, van Duijn CM, Alizadeh BZ, Ciullo M, Crisponi L, EastonDF, Gasparini PP, Gieger C, Harris TB, Hayward C, **Kardia SL**, Kraft P, McKnight B, Metspalu A, Morrison AC, Reiner AP, Ridker PM, Rotter JI, Toniolo D, Uitterlinden AG, Ulivi S, Völzke H, Wareham NJ, Weir DR, Yerges-Armstrong LM; PRACTICAL Consortium; kConFab Investigators; AOCS Investigators; Generation Scotland; EPIC-InterAct Consortium; LifeLines Cohort Study, Price AL, Stefansson K, Visser JA, Ong KK, Chang-Claude J, Murabito JM, Perry JR, 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
226. Weissgerber TL, Turner ST, Mosley TH Jr, **Kardia SL**, Hanis CL, Milic NM, Garovic VD (2015) Hypertension in Pregnancy and Future Cardiovascular Event Risk in Siblings.

*Journal of American Society of Nephrology* 27(3):894-902. PMID: 26315531. PMCID: PMC4769201

227. Needham BL, Smith JA, Zhao W, Wang X, Mukherjee B, **Kardia SL**, 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
228. Smith JA, Ware EB, Middha P, Beacher L, **Kardia SL** (2015) Current applications of genetic risk scores to cardiovascular outcomes and subclinical phenotypes. *Current Epidemiology Reports* 2(3):180-190. PMID: 26269782. PMCID: PMC4527979
229. Weissgerber TL, Milic NM, Turner ST, Asad RA, Mosley TH Jr, **Kardia SL**, Hanis CL, Garovic VD (2015) Uric acid: A missing link between hypertensive pregnancy disorders and future cardiovascular disease? *Mayo Clinic Proceedings* 90(9):1207-16. PMID: 26260220. PMCID: PMC4567408
230. Ware EB, Smith JA, Mukherjee B, Lee S, **Kardia SL**, 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. *Behavioral Genetics* 46(1):89-99. PMID: 26254610; PMCID: PMC4720563
231. Olfson E, Saccone NL, Johnson EO, Chen LS, Culverhouse R, Doheny K, Foltz SM, Fox L, Gogarten SM, Hartz S, Hetrick K, Laurie CC, Marosy B, Amin N, Arnett D, Barr RG, Bartz TM, Bertelsen S, Borecki IB, Brown MR, Chasman DI, van Duijn CM, Feitosa MF, Fox ER, Franceschini N, Franco OH, Grove ML, Guo X, Hofman A, **Kardia SL**, Morrison AC, Musani SK, Psaty BM, Rao DC, Reiner AP, Rice K, Ridker PM, Rose LM, Schick UM, Schwander K, Uitterlinden AG, Vojinovic D, Wang JC, Ware EB, Wilson G, Yao J, Zhao W, Breslau N, Hatsukami D, Stitzel JA, Rice J, Goate A, Bierut LJ (2015) Rare, low frequency and common coding variants in CHRNA5 and their contribution to nicotine dependence in European and African Americans. *Molecular Psychiatry* 21(5):601-7. PMID: 26239294. PMCID: PMC4740321
232. Perinpam M, Ware EB, Smith JA, Turner ST, **Kardia SL**, 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
233. Li TC, **Kardia SL**, Li CI, Chen CC, Liu CS, Yang SY, Muo CS, Peyser PA, Lin CC (2015) Glycemic control paradox: Poor glycemic control associated with higher one-year and eight-year risks of all-cause hospitalization but lower one-year risk of hypoglycemia in patients with type 2 diabetes. *Metabolism* 64(9):1013-21. PMID: 26026367
234. He Z, Payne EK, Mukherjee B, Lee S, Smith JA, Ware EB, Sánchez BN, Seeman TE, **Kardia SL**, 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

235. Ware EB, Riehle E, Smith JA, Zhao W, Turner ST, **Kardia SL**, Lieske JC (2015) SLC2A9 genotype is associated with SLC2A9 gene expression and urinary uric acid concentration. *PLoS One* 10(7):e0128593. PMID: 26167684. PMCID: PMC4500555
236. Zhao W, Smith JA, Mao G, Fornage M, Peyser PA, Sun YV, Turner ST, **Kardia SL** (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
237. Lieske JC, Turner ST, Edeh SN, Ware EB, **Kardia SL**, 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
238. Nead KT, Li A, Wehner MR, Neupane B, Gustafsson S, Butterworth A, Engert JC, Davis AD, Hegele RA, Miller R, den Hoed M, Khaw KT, Kilpeläinen TO, Wareham N, Edwards TL, Hallmans G, Varga TV, **Kardia SL**, Smith JA, Zhao W, Faul JD, Weir D, Mi J, Xi B, Quinteros SC, Cooper C, Sayer AA, Jameson K, Grøntved A, Fornage M, Sidney S, Hanis CL, Highland HM, Häring HU, Heni M, Lasky-Su J, Weiss ST, Gerhard GS, Still C, Melka MM, Pausova Z, Paus T, Grant SF, Hakonarson H, Price RA, Wang K, Scherag A, Hebebrand J, Hinney A; BioBank Japan, AGEN-BMI, GIANT Consortium, Franks PW, Frayling TM, McCarthy MI, Hirschhorn JN, Loos RJ, Ingelsson E, Gerstein HC, Yusuf S, Beyene J, Anand SS, 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: PMC4498155
239. Joshi PK, Esko T, Mattsson H, Eklund N, Gandin I, Nutile T, Jackson AU, Schurmann C, Smith AV, Zhang W, Okada Y, Stančáková A, Faul JD, Zhao W, Bartz TM, Concas MP, Franceschini N, Enroth S, Vitart V, Trompet S, Guo X, Chasman DI, O'Connel JR, Corre T, Nongmaithem SS, Chen Y, Mangino M, Ruggiero D, Traglia M, Farmaki AE, Kacprowski T, Björnes A, van der Spek A, Wu Y, Giri AK, Yanek LR, Wang L, Hofer E, Rietveld CA, McLeod O, Cornelis MC, Pattaro C, Verweij N, Baumbach C, Abdellaoui A, Warren HR, Vuckovic D, Mei H, Bouchard C, Perry JR, Cappellani S, Mirza SS, Benton MC, Broeckel U, Medland SE, Lind PA, Mallerba G, Drong A, Yengo L, Bielak LF, Zhi D, van der Most PJ, Shriner D, Mägi R, Hemani G, Karaderi T, Wang Z, Liu T, Demuth I, Zhao JH, Meng W, Lataniotis L, van der Laan SW, Bradfield JP, Wood AR, Bonnefond A, Ahluwalia TS, Hall LM, Salvi E, Yazar S, Carstensen L, de Haan HG, Abney M, Afzal U, Allison MA, Amin N, Asselbergs FW, Bakker SJ, Barr RG, Baumeister SE, Benjamin DJ, Bergmann S, Boerwinkle E, Bottinger EP, Campbell A, Chakravarti A, Chan Y, Chanock SJ, Chen C, Chen YD, Collins FS, Connell J, Correa A, Cupples LA, Smith GD, Davies G, Dörr M, Ehret G, Ellis SB, Feenstra B, Feitosa MF, Ford I, Fox CS, Frayling TM, Friedrich N, Geller F, Scotland G, Gillham-Nasenya I, Gottesman O, Graff M, Grodstein F, Gu C, Haley C, Hammond CJ, Harris SE, Harris TB, Hastie ND, Heard-Costa NL, Heikkilä K, Hocking LJ, Homuth G, Hottenga JJ, Huang J, Huffman JE, Hysi PG,

Ikram MA, Ingelsson E, Joensuu A, Johansson Å, Jousilahti P, Jukema JW, Kähönen M, Kamatani Y, Kanoni S, Kerr SM, Khan NM, Koellinger P, Koistinen HA, Kooner MK, Kubo M, Kuusisto J, Lahti J, Launer LJ, Lea RA, Lehne B, Lehtimäki T, Liewald DC, Lind L, Loh M, Lokki ML, London SJ, Loomis SJ, Loukola A, Lu Y, Lumley T, Lundqvist A, Männistö S, Marques-Vidal P, Masciullo C, Matchan A, Mathias RA, Matsuda K, Meigs JB, Meisinger C, Meitinger T, Menni C, Mentch FD, Mihailov E, Milani L, Montasser ME, Montgomery GW, Morrison A, Myers RH, Nadukuru R, Navarro P, Nelis M, Nieminen MS, Nolte IM, O'Connor GT, Oggunyi A, Padmanabhan S, Palmas WR, Pankow JS, Patarcic I, Pavani F, Peyser PA, Pietilainen K, Poulter N, Prokopenko I, Ralhan S, Redmond P, Rich SS, Rissanen H, Robino A, Rose LM, Rose R, Sala C, Salako B, Salomaa V, Sarin AP, Saxena R, Schmidt H, Scott LJ, Scott WR, Sennblad B, Seshadri S, Sever P, Shrestha S, Smith BH, Smith JA, Soranzo N, Sotoodehnia N, Southam L, Stanton AV, Stathopoulou MG, Strauch K, Strawbridge RJ, Suderman MJ, Tandon N, Tang ST, Taylor KD, Tayo BO, Töglhofer AM, Tomaszewski M, Tšernikova N, Tuomilehto J, Uitterlinden AG, Vaidya D, van Hylckama Vlieg A, van Setten J, Vasankari T, Vedantam S, Vlachopoulou E, Vozzi D, Vuoksimaa E, Waldenberger M, Ware EB, Wentworth-Shields W, Whitfield JB, Wild S, Willemsen G, Yajnik CS, Yao J, Zaza G, Zhu X; BioBank Japan Project, Salem RM, Melbye M, Bisgaard H, Samani NJ, Cusi D, Mackey DA, Cooper RS, Froguel P, Pasterkamp G, Grant SF, Hakonarson H, Ferrucci L, Scott RA, Morris AD, Palmer CN, Dedoussis G, Deloukas P, Bertram L, Lindenberger U, Berndt SI, Lindgren CM, Timpson NJ, Tönjes A, Munroe PB, Sørensen TI, Rotimi CN, Arnett DK, Oldehinkel AJ, **Kardia SL**, Balkau B, Gambaro G, Morris AP, Eriksson JG, Wright MJ, Martin NG, Hunt SC, Starr JM, Deary IJ, Griffiths LR, Tiemeier H, Pirastu N, Kaprio J, Wareham NJ, Pérusse L, Wilson JG, Girotto G, Caulfield MJ, Raitakari O, Boomsma DI, Gieger C, van der Harst P, Hicks AA, Kraft P, Sinisalo J, Knekt P, Johannesson M, Magnusson PK, Hamsten A, Schmidt R, Borecki IB, Virtainen E, Becker DM, Bharadwaj D, Mohlke KL, Boehnke M, van Duijn CM, Sanghera DK, Teumer A, Zeggini E, Metspalu A, Gasparini P, Ulivi S, Ober C, Toniolo D, Rudan I, Porteous DJ, Ciullo M, Spector TD, Hayward C, Dupuis J, Loos RJ, Wright AF, Chandak GR, Vollenweider P, Shuldiner AR, Ridker PM, Rotter JI, Sattar N, Gyllensten U, North KE, Pirastu M, Psaty BM, Weir DR, Laakso M, Gudnason V, Takahashi A, Chambers JC, Kooner JS, Strachan DP, Campbell H, Hirschhorn JN, Perola M, Polášek O, Wilson JF (2015) Directional dominance on stature and cognition in diverse human populations. *Nature* 523(7561):459-62. PMID: 26131930. PMCID: PMC4516141

240. Peters MJ, Joehanes R, Pilling LC, Schurmann C, Conneely KN, Powell J, Reinmaa E, Sutphin GL, Zhernakova A, Schramm K, Wilson YA, Kobes S, Tukiainen T; NABEC/UKBEC Consortium, Ramos YF, Göring HH, Fornage M, Liu Y, Gharib SA, Stranger BE, De Jager PL, Aviv A, Levy D, Murabito JM, Munson PJ, Huan T, Hofman A, Uitterlinden AG, Rivadeneira F, van Rooij J, Stolk L, Broer L, Verbiest MM, Jhamai M, Arp P, Metspalu A, Tserel L, Milani L, Samani NJ, Peterson P, Kasela S, Codd V, Peters A, Ward-Caviness CK, Herder C, Waldenberger M, Roden M, Singmann P, Zeilinger S, Illig T, Homuth G, Grabe HJ, Völzke H, Steil L, Kocher T, Murray A, Melzer D, Yaghootkar H, Bandinelli S, Moses EK, Kent JW, Curran JE, Johnson MP, Williams-Blangero S, Westra HJ, McRae AF, Smith JA, **Kardia SL**, Hovatta I, Perola M, Ripatti S, Salomaa V, Henders AK, Martin NG, Smith AK, Mehta D, Binder EB, Nylocks KM,

Kennedy EM, Klengel T, Ding J, Suchy-Dicey AM, Enquobahrie DA, Brody J, Rotter JI, Chen YD, Houwing-Duistermaat J, Kloppenburg M, Slagboom PE, Helmer Q, den Hollander W, Bean S, Raj T, Bakhshi N, Wang QP, Oyston LJ, Psaty BM, Tracy RP, Montgomery GW, Turner ST, Blangero J, Meulenbelt I, Ressler KJ, Yang J, Franke L, Kettunen J, Visscher PM, Neely GG, Korstanje R, Hanson RL, Prokisch H, Ferrucci L, Esko T, Teumer A, van Meurs JB, Johnson AD (2015) The transcriptional landscape of age in human peripheral blood. *Nature Communications* 6:8570. PMID: 26490707. PMCID: PMC4639797

241. de Vries PS, Chasman DI, Sabater-Lleal M, Chen MH, Huffman JE, Steri M, Tang W, Teumer A, Marioni RE, Grossmann V, Hottenga JJ, Trompet S, Müller-Nurasyid M, Zhao JH, Brody JA, Kleber ME, Guo X, Wang JJ, Auer PL, Attia JR, Yanek LR, Ahluwalia TS, Lahti J, Venturini C, Tanaka T, Bielak LF, Joshi PK, Rocanin-Arjo A, Kolcic I, Navarro P, Rose LM, Oldmeadow C, Riess H, Mazur J, Basu S, Goel A, Yang Q, Ghanbari M, Willemse G, Rumley A, Fiorillo E, de Craen AJ, Grotevendt A, Scott R, Taylor KD, Delgado GE, Yao J, Kifley A, Kooperberg C, Qayyum R, Lopez LM, Berentzen TL, Räikkönen K, Mangino M, Bandinelli S, Peyser PA, Wild S, Trégouët DA, Wright AF, Marten J, Zemunik T, Morrison AC, Sennblad B, Tofler G, de Maat MP, de Geus EJ, Lowe GD, Zoledziewska M, Sattar N, Binder H, Völker U, Waldenberger M, Khaw KT, McKnight B, Huang J, Jenny NS, Holliday EG, Qi L, McEvoy MG, Becker DM, Starr JM, Sarin AP, Hysi PG, Hernandez DG, Jhun MA, Campbell H, Hamsten A, Rivadeneira F, McArdle WL, Slagboom PE, Zeller T, Koenig W, Psaty BM, Haritunians T, Liu J, Palotie A, Uitterlinden AG, Stott DJ, Hofman A, Franco OH, Polasek O, Rudan I, Morange PE, Wilson JF, **Kardia SL**, Ferrucci L, Spector TD, Eriksson JG, Hansen T, Deary IJ, Becker LC, Scott RJ, Mitchell P, März W, Wareham NJ, Peters A, Greinacher A, Wild PS, Jukema JW, Boomsma DI, Hayward C, Cucca F, Tracy R, Watkins H, Reiner AP, Folsom AR, Ridker PM, O'Donnell CJ, Smith NL, Strachan DP, Dehghan A (2015) A meta-analysis of 120,246 individuals identifies 18 new loci for fibrinogen concentration. *Human Molecular Genetics* 25(2):358-70. PMID: 26561523. PMCID: PMC4715256
242. Broadway KA, Cutler DJ, Duncan R, Moore JL, Ware EB, Jhun MA, Bielak LF, Zhao W, Smith JA, Peyser PA, **Kardia SL**, 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
243. Platt J, Thiel DB, **Kardia SL**, Choi SW (2016) Innovating consent for pediatric HCT patients. *Bone Marrow Transplant* 51(6):885-8. PMID: 26926228. PMCID: PMC4896835
244. Perinpam M, Ware EB, Smith JA, Turner ST, **Kardia SL**, Lieske JC (2016) Key influence of sex on urine volume and osmolality. *Biology of Sex Differences*. 7:12. PMID: 26865949. PMCID: PMC4748596
245. Pattaro C, Teumer A, Gorski M, Chu AY, Li M, Mijatovic V, Garnaas M, Tin A, Sorice R, Li Y, Taliun D, Olden M, Foster M, Yang Q, Chen MH, Pers TH, Johnson AD, Ko YA, Fuchsberger C, Tayo B, Nalls M, Feitosa MF, Isaacs A, Dehghan A, d'Adamo P, Adeyemo A, Dieffenbach AK, Zonderman AB, Nolte IM, van der Most PJ, Wright AF, Shuldiner

AR, Morrison AC, Hofman A, Smith AV, Dreisbach AW, Franke A, Uitterlinden AG, Metspalu A, Tonjes A, Lupo A, Robino A, Johansson Å, Demirkan A, Kollerits B, Freedman BI, Ponte B, Oostra BA, Paulweber B, Krämer BK, Mitchell BD, Buckley BM, Peralta CA, Hayward C, Helmer C, Rotimi CN, Shaffer CM, Müller C, Sala C, van Duijn CM, Saint-Pierre A, Ackermann D, Shriner D, Ruggiero D, Toniolo D, Lu Y, Cusi D, Czamara D, Ellinghaus D, Siscovick DS, Ruderfer D, Gieger C, Grallert H, Rochtchina E, Atkinson EJ, Holliday EG, Boerwinkle E, Salvi E, Bottinger EP, Murgia F, Rivadeneira F, Ernst F, Kronenberg F, Hu FB, Navis GJ, Curhan GC, Ehret GB, Homuth G, Coassini S, Thun GA, Pistis G, Gambaro G, Malerba G, Montgomery GW, Eiriksdottir G, Jacobs G, Li G, Wichmann HE, Campbell H, Schmidt H, Wallaschofski H, Völzke H, Brenner H, Kroemer HK, Kramer H, Lin H, Mateo Leach I, Ford I, Guessous I, Rudan I, Prokopenko I, Borecki I, Heid IM, Kolcic I, Persico I, Jukema JW, Wilson JF, Felix JF, Divers J, Lambert JC, Stafford JM, Gaspoz JM, Smith JA, Faul JD, Wang JJ, Ding J, Hirschhorn JN, Attia J, Whitfield JB, Chalmers J, Viikari J, Coresh J, Denny JC, Karjalainen J, Fernandes JK, Endlich K, Butterbach K, Keene KL, Lohman K, Portas L, Launer LJ, Lyytikäinen LP, Yengo L, Franke L, Ferrucci L, Rose LM, Kedenko L, Rao M, Struchalin M, Kleber ME, Cavalieri M, Haun M, Cornelis MC, Ciullo M, Pirastu M, de Andrade M, McEvoy MA, Woodward M, Adam M, Cocca M, Nauck M, Imboden M, Waldenberger M, Pruijm M, Metzger M, Stumvoll M, Evans MK, Sale MM, Kähönen M, Boban M, Bochud M, Rheinberger M, Verweij N, Bouatia-Naji N, Martin NG, Hastie N, Probst-Hensch N, Soranzo N, Devuyst O, Raitakari O, Gottesman O, Franco OH, Polasek O, Gasparini P, Munroe PB, Ridker PM, Mitchell P, Muntner P, Meisinger C, Smit JH; ICBP Consortium; AGEN Consortium; CARDIOGRAM; CHARGE-Heart Failure Group; ECHOGen Consortium, Kovacs P, Wild PS, Froguel P, Rettig R, Mägi R, Biffar R, Schmidt R, Middelberg RP, Carroll RJ, Penninx BW, Scott RJ, Katz R, Sedaghat S, Wild SH, **Kardia SL**, Ulivi S, Hwang SJ, Enroth S, Kloiber S, Trompet S, Stengel B, Hancock SJ, Turner ST, Rosas SE, Stracke S, Harris TB, Zeller T, Zemunik T, Lehtimäki T, Illig T, Aspelund T, Nikopensius T, Esko T, Tanaka T, Gyllensten U, Völker U, Emilsson V, Vitart V, Aalto V, Gudnason V, Chouraki V, Chen WM, Igl W, März W, Koenig W, Lieb W, Loos RJ, Liu Y, Snieder H, Pramstaller PP, Parsa A, O'Connell JR, Susztak K, Hamet P, Tremblay J, de Boer IH, Böger CA, Goessling W, Chasman DI, Köttgen A, Kao WH, Fox CS (2016) Genetic associations at 53 loci highlight cell types and biological pathways relevant for kidney function. *Nature Communications* 7:10023. PMID: 26831199. PMCID: PMC4707536

246. Taylor JY, Schwander K, **Kardia SL**, Arnett D, Liang J, Hunt SC, Rao DC, Sun YV (2016) A Genome-wide study of blood pressure in African Americans accounting for gene-smoking interaction. *Science Reports* 6:18812. PMID: 26752167. PMCID: PMC4707536
247. Demirkan A, Lahti J, Direk N, Viktorin A, Lunetta KL, Terracciano A, Nalls MA, Tanaka T, Hek K, Fornage M, Wellmann J, Cornelis MC, Ollila HM, Yu L, Smith JA, Pilling LC, Isaacs A, Palotie A, Zhuang WV, Zonderman A, Faul JD, Sutin A, Meirelles O, Mulas A, Hofman A, Uitterlinden A, Rivadeneira F, Perola M, Zhao W, Salomaa V, Yaffe K, Luik AI; NABEC, Liu Y, Ding J, Lichtenstein P, Landén M, Widen E, Weir DR, Llewellyn DJ, Murray A, **Kardia SL**, Eriksson JG, Koenen K, Magnusson PK, Ferrucci L, Mosley TH, Cucca F, Oostra BA, Bennett DA, Paunio T, Berger K, Harris TB, Pedersen NL, Murabito

- JM, Tiemeier H, van Duijn CM, Räikkönen 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. *Psychol Medicine* 46(8):1613-23. PMID:26997408
248. Dunn EC, Wiste A, Radmanesh F, Almli LM, Gogarten SM, Sofer T, Faul JD, **Kardia SL**, Smith JA, Weir DR, Zhao W, Soare TW, Mirza SS, Hek K, Tiemeier H, Goveas JS, Sarto GE, Snively BM, Cornelis M, Koenen KC, 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
249. Okbay A, Baselmans BM, De Neve JE, Turley P, Nivard MG, Fontana MA, Meddents SF, Linnér RK, Rietveld CA, Derringer J, Gratten J, Lee JJ, Liu JZ, de Vlaming R, Ahluwalia TS, Buchwald J, Cavadino A, Frazier-Wood AC, Furlotte NA, Garfield V, Geisel MH, Gonzalez JR, Haitjema S, Karlsson R, van der Laan SW, Ladwig KH, Lahti J, van der Lee SJ, Lind PA, Liu T, Matteson L, Mihailov E, Miller MB, Minica CC, Nolte IM, Mook-Kanamori D, van der Most PJ, Oldmeadow C, Qian Y, Raitakari O, Rawal R, Realo A, Rueedi R, Schmidt B, Smith AV, Stergiakouli E, Tanaka T, Taylor K, Thorleifsson G, Wedenoja J, Wellmann J, Westra HJ, Willems SM, Zhao W; LifeLines Cohort Study, Amin N, Bakshi A, Bergmann S, Bjornsdottir G, Boyle PA, Cherney S, Cox SR, Davies G, Davis OS, Ding J, Direk N, Eibich P, Emeny RT, Fatemifar G, Faul JD, Ferrucci L, Forstner AJ, Gieger C, Gupta R, Harris TB, Harris JM, Holliday EG, Hottenga JJ, De Jager PL, Kaakinen MA, Kajantie E, Karhunen V, Kolcic I, Kumari M, Launer LJ, Franke L, Li-Gao R, Liewald DC, Koini M, Loukola A, Marques-Vidal P, Montgomery GW, Mosing MA, Paternoster L, Pattie A, Petrovic KE, Pulkki-Råback L, Quaye L, Räikkönen K, Rudan I, Scott RJ, Smith JA, Sutin AR, Trzaskowski M, Vinkhuyzen AE, Yu L, Zabaneh D, Attia JR, Bennett DA, Berger K, Bertram L, Boomsma DI, Snieder H, Chang SC, Cucca F, Deary IJ, van Duijn CM, Eriksson JG, Bültmann U, de Geus EJ, Groenen PJ, Gudnason V, Hansen T, Hartman CA, Haworth CM, Hayward C, Heath AC, Hinds DA, Hyppönen E, William WG, Järvelin MR, Jöckel KH, Kaprio J, **Kardia SL**, Keltikangas-Järvinen L, Kraft P, Kubzansky LD, Lehtimäki T, Magnusson PK, Martin NG, McGue M, Metspalu A, Mills M, de Mutsert R, Oldehinkel AJ, Pasterkamp G, Pedersen NL, Plomin R, Polasek O, Power C, Rich SS, Rosendaal FR, den Ruijter HM, Schlessinger D, Schmidt H, Svento R, Schmidt R, Alizadeh BZ, Sørensen TI, Spector TD, Starr JM, Stefansson K, Steptoe A, Terracciano A, Thorsteinsdottir U, Thurik AR, Timpson NJ, Tiemeier H, Uitterlinden AG, Vollenweider P, Wagner GG, Weir DR, Yang J, Conley DC, Smith GD, Hofman A, Johannesson M, Laibson DI, Medland SE, Meyer MN, Pickrell JK, Esko T, Krueger RF, Beauchamp JP, Koellinger PD, Benjamin DJ, Bartels M, Cesari D. (2016) Genetic variants associated with subjective well-being, depressive symptoms, and neuroticism identified through genome-wide analyses. *Nature Genetics* 48(12):1591. PMID:27463399. PMCID:PMC5509058
250. Okbay A, Beauchamp JP, Fontana MA, Lee JJ, Pers TH, Rietveld CA, Turley P, Chen GB, Emilsson V, Meddents SF, Oskarsson S, Pickrell JK, Thom K, Timshel P, de Vlaming R,

Abdellaoui A, Ahluwalia TS, Bacelis J, Baumbach C, Bjornsdottir G, Brandsma JH, Pina Concas M, Derringer J, Furlotte NA, Galesloot TE, Girotto G, Gupta R, Hall LM, Harris SE, Hofer E, Horikoshi M, Huffman JE, Kaasik K, Kalafati IP, Karlsson R, Kong A, Lahti J, van der Lee SJ, deLeeuw C, Lind PA, Lindgren KO, Liu T, Mangino M, Marten J, Mihailov E, Miller MB, van der Most PJ, Oldmeadow C, Payton A, Pervjakova N, Peyrot WJ, Qian Y, Raitakari O, Rueedi R, Salvi E, Schmidt B, Schraut KE, Shi J, Smith AV, Poot RA, St Pourcain B, Teumer A, Thorleifsson G, Verweij N, Vuckovic D, Wellmann J, Westra HJ, Yang J, Zhao W, Zhu Z, Alizadeh BZ, Amin N, Bakshi A, Baumeister SE, Biino G, Bønnelykke K, Boyle PA, Campbell H, Cappuccio FP, Davies G, De Neve JE, Deloukas P, Demuth I, Ding J, Eibich P, Eisele L, Eklund N, Evans DM, Faul JD, Feitosa MF, Forstner AJ, Gandin I, Gunnarsson B, Halldórsson BV, Harris TB, Heath AC, Hocking LJ, Holliday EG, Homuth G, Horan MA, Hottenga JJ, de Jager PL, Joshi PK, Jugessur A, Kaakinen MA, Kähönen M, Kanoni S, Keltigangas-Järvinen L, Kiemeney LA, Kolcic I, Koskinen S, Kraja AT, Kroh M, Kutalik Z, Latvala A, Launer LJ, Lebreton MP, Levinson DF, Lichtenstein P, Lichtner P, Liewald DC; LifeLines Cohort Study, Loukola A, Madden PA, Mägi R, Mäki-Opas T, Marioni RE, Marques-Vidal P, Meddents GA, McMahon G, Meisinger C, Meitinger T, Milaneschi Y, Milani L, Montgomery GW, Myhre R, Nelson CP, Nyholt DR, Ollier WE, Palotie A, Paternoster L, Pedersen NL, Petrovic KE, Porteous DJ, Räikkönen K, Ring SM, Robino A, Rostapshova O, Rudan I, Rustichini A, Salomaa V, Sanders AR, Sarin AP, Schmidt H, Scott RJ, Smith BH, Smith JA, Staessen JA, Steinhagen-Thiessen E, Strauch K, Terracciano A, Tobin MD, Ulivi S, Vaccargiu S, Quaye L, van Rooij FJ, Venturini C, Vinkhuyzen AA, Völker U, Völzke H, Vonk JM, Vozzi D, Waage J, Ware EB, Willemsen G, Attia JR, Bennett DA, Berger K, Bertram L, Bisgaard H, Boomsma DI, Borecki IB, Bültmann U, Chabris CF, Cucca F, Cusi D, Deary IJ, Dedoussis GV, van Duijn CM, Eriksson JG, Franke B, Franke L, Gasparini P, Gejman PV, Gieger C, Grabe HJ, Gratten J, Groenen PJ, Gudnason V, van der Harst P, Hayward C, Hinds DA, Hoffmann W, Hyppönen E, Iacono WG, Jacobsson B, Järvelin MR, Jöckel KH, Kaprio J, **Kardia SL**, Lehtimäki T, Lehrer SF, Magnusson PK, Martin NG, McGue M, Metspalu A, Pendleton N, Penninx BW, Perola M, Pirastu N, Pirastu M, Polasek O, Posthuma D, Power C, Province MA, Samani NJ, Schlessinger D, Schmidt R, Sørensen TI, Spector TD, Stefansson K, Thorsteinsdottir U, Thurik AR, Timpson NJ, Tiemeier H, Tung JY, Uitterlinden AG, Vitart V, Vollenweider P, Weir DR, Wilson JF, Wright AF, Conley DC, Krueger RF, Davey Smith G, Hofman A, Laibson DI, Medland SE, Meyer MN, Yang J, Johannesson M, Visscher PM, Esko T, Koellinger PD, Cesarini D, Benjamin DJ (2016) Genome-wide association study identifies 74 loci associated with educational attainment. *Nature* 533(7604):539-542. PMID:27225129. PMCID: PMC4883595

251. Sung YJ, Winkler TW, Manning AK, Aschard H, Gudnason V, Harris TB, Smith AV, Boerwinkle E, Brown MR, Morrison AC, Fornage M, Lin LA, Richard M, Bartz TM, Psaty BM, Hayward C, Polasek O, Marten J, Rudan I, Feitosa MF, Kraja AT, Province MA, Deng X, Fisher VA, Zhou Y, Bielak LF, Smith J, Huffman JE, Padmanabhan S, Smith BH, Ding J, Liu Y, Lohman K, Bouchard C, Rankinen T, Rice TK, Arnett D, Schwander K, Guo X, Palmas W, Rotter JI, Alfred T, Bottinger EP, Loos RJ, Amin N, Franco OH, van Duijn CM, Vojinovic D, Chasman DI, Ridker PM, Rose LM, **Kardia S**, Zhu X, Rice K, Borecki IB, Rao DC, Gauderman WJ, Cupples LA (2016) An empirical comparison of joint and stratified frameworks for studying G × E interactions: Systolic blood pressure and

- smoking in the CHARGE Gene-Lifestyle Interactions Working Group. *Genetic Epidemiology* 40(5):404-15. PMID:27230302. PMCID: PMC4911246
252. Platt T, Platt J, Thiel DB, **Kardia SL** (2016) Facebook advertising across an engagement spectrum: A case example for public health communication. *JMIR Public Health Surveillance* 2(1):e27. PMID:27244774. PMCID: PMC4906239
253. Liu CT, Raghavan S, Maruthur N, Kabagambe EK, Hong J, Ng MC, Hivert MF, Lu Y, An P, Bentley AR, Drolet AM, Gaulton KJ, Guo X, Armstrong LL, Irvin MR, Li M, Lipovich L, Rybin DV, Taylor KD, Agyemang C, Palmer ND, Cade BE, Chen WM, Dauriz M, Delaney JA, Edwards TL, Evans DS, Evans MK, Lange LA, Leong A, Liu J, Liu Y, Nayak U, Patel SR, Porneala BC, Rasmussen-Torvik LJ, Snijder MB, Stallings SC, Tanaka T, Yanek LR, Zhao W, Becker DM, Bielak LF, Biggs ML, Bottinger EP, Bowden DW, Chen G, Correa A, Couper DJ, Crawford DC, Cushman M, Eicher JD, Fornage M, Franceschini N, Fu YP, Goodarzi MO, Gottesman O, Hara K, Harris TB, Jensen RA, Johnson AD, Jhun MA, Karter AJ, Keller MF, Kho AN, Kizer JR, Krauss RM, Langefeld CD, Li X, Liang J, Liu S, Lowe WL Jr, Mosley TH, North KE, Pacheco JA, Peyser PA, Patrick AL, Rice KM, Selvin E, Sims M, Smith JA, Tajuddin SM, Vaidya D, Wren MP, Yao J, Zhu X, Ziegler JT, Zmuda JM, Zonderman AB, Zwinderman AH; AAAG Consortium; CARe Consortium; COGENT-BP Consortium; eMERGE Consortium; MEDIA Consortium, Adeyemo A, Boerwinkle E, Ferrucci L, Hayes MG, **Kardia SL**, Miljkovic I, Pankow JS, Rotimi CN, Sale MM, Wagenknecht LE, Arnett DK, Chen YD, Nalls MA; MAGIC Consortium, Province MA, Kao WH, Siscovick DS, Psaty BM, Wilson JG, Loos RJ, Dupuis J, Rich SS, Florez JC, Rotter JI, Morris AP, Meigs JB (2016) 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. PMCID: PMC5005440
254. Matteini AM, Tanaka T, Karasik D, Atzmon G, Chou WC, Eicher JD, Johnson AD, Arnold AM, Callisaya ML, Davies G, Evans DS, Holtfreter B, Lohman K, Lunetta KL, Mangino M, Smith AV, Smith JA, Teumer A, Yu L, Arking DE, Buchman AS, Chibnik LB, De Jager PL, Evans DA, Faul JD, Garcia ME, Gillham-Nasenya I, Gudnason V, Hofman A, Hsu YH, Ittermann T, Lahousse L, Liewald DC, Liu Y, Lopez L, Rivadeneira F, Rotter JI, Siggeirsdottir K, Starr JM, Thomson R, Tranah GJ, Uitterlinden AG, Völker U, Völzke H, Weir DR, Yaffe K, Zhao W, Zhuang WV, Zmuda JM, Bennett DA, Cummings SR, Deary IJ, Ferrucci L, Harris TB, **Kardia SL**, Kocher T, Kritchevsky SB, Psaty BM, Seshadri S, Spector TD, Srikanth VK, Windham BG, Zillikens MC, Newman AB, Walston JD, Kiel DP, Murabito JM (2016) GWAS analysis of handgrip and lower body strength in older adults in the CHARGE consortium. *Aging Cell* 15(5):792-800. PMID:27325353. PMCID: PMC5013019
255. Modell SM, Greendale K, Citrin T, **Kardia SL**. (2016) Expert and advocacy group consensus findings on the horizon of public health genetic testing. *Healthcare (Basel)* 4(1), pii: E14. PMID:27417602. PMCID: PMC4934548

256. Ko YA, Mukherjee B, Smith JA, **Kardia SL**, Allison M, Diez Roux AV (2016) Classification and clustering methods for multiple environmental factors in gene-environment interaction: Application to the Multi-Ethnic Study of Atherosclerosis. *Epidemiology* 27(6):870-8. PMID:27479650. PMCID: PMC5039086
257. Liu C, Kraja AT, Smith JA, Brody JA, Franceschini N, Bis JC, Rice K, Morrison AC, Lu Y, Weiss S, Guo X, Palmas W, Martin LW, Chen YI, Surendran P, Drenos F, Cook JP, Auer PL, Chu AY, Giri A, Zhao W, Jakobsdottir J, Lin LA, Stafford JM, Amin N, Mei H, Yao J, Voorman A; CHD Exome+ Consortium; ExomeBP Consortium; GoT2DGenes Consortium; T2D-GENES Consortium, Larson MG, Grove ML, Smith AV, Hwang SJ, Chen H, Huan T, Kosova G, Stitziel NO, Kathiresan S, Samani N, Schunkert H, Deloukas P; Myocardial Infarction Genetics and CARDIoGRAM Exome Consortia, Li M, Fuchsberger C, Pattaro C, Gorski M; CKDGen Consortium, Kooperberg C, Papanicolaou GJ, Rossouw JE, Faul JD, **Kardia SL**, Bouchard C, Raffel LJ, Uitterlinden AG, Franco OH, Vasan RS, O'Donnell CJ, Taylor KD, Liu K, Bottinger EP, Gottesman O, Daw EW, Julianini F, Ganesh S, Salfati E, Harris TB, Launer LJ, Dörr M, Felix SB, Rettig R, Völzke H, Kim E, Lee WJ, Lee IT, Sheu WH, Tsosie KS, Edwards DR, Liu Y, Correa A, Weir DR, Völker U, Ridker PM, Boerwinkle E, Gudnason V, Reiner AP, van Duijn CM, Borecki IB, Edwards TL, Chakravarti A, Rotter JI, Psaty BM, Loos RJ, Fornage M, Ehret GB, Newton-Cheh C, Levy D, Chasman DI (2016) Meta-analysis identifies common and rare variants influencing blood pressure and overlapping with metabolic trait loci. *Nature Genetics* 48(10):1162-70. PMID:27618448. PMCID: PMC5320952
258. Joehanes R, Just AC, Marioni RE, Pilling LC, Reynolds LM, Mandaviya PR, Guan W, Xu T, Elks CE, Aslibekyan S, Moreno-Macias H, Smith JA, Brody JA, Dhingra R, Yousefi P, Pankow JS, Kunze S, Shah SH, McRae AF, Lohman K, Sha J, Absher DM, Ferrucci L, Zhao W, Demerath EW, Bressler J, Grove ML, Huan T, Liu C, Mendelson MM, Yao C, Kiel DP, Peters A, Wang-Sattler R, Visscher PM, Wray NR, Starr JM, Ding J, Rodriguez CJ, Wareham NJ, Irvin MR, Zhi D, Barrdahl M, Vineis P, Ambatipudi S, Uitterlinden AG, Hofman A, Schwartz J, Colicino E, Hou L, Vokonas PS, Hernandez DG, Singleton AB, Bandinelli S, Turner ST, Ware EB, Smith AK, Klengel T, Binder EB, Psaty BM, Taylor KD, Gharib SA, Swenson BR, Liang L, DeMeo DL, O'Connor GT, Herceg Z, Ressler KJ, Conneely KN, Sotoodehnia N, **Kardia SL**, Melzer D, Baccarelli AA, van Meurs JB, Romieu I, Arnett DK, Ong KK, Liu Y, Waldenberger M, Deary IJ, Fornage M, Levy D, London SJ (2016) Epigenetic signatures of cigarette smoking. *Circulation Cardiovascular Genetics* 9(5):436-447. PMID: 27651444. PMCID: PMC5267325
259. Barban N, Jansen R, de Vlaming R, Vaez A, Mandemakers JJ, Tropf FC, Shen X, Wilson JF, Chasman DI, Nolte IM, Tragante V, van der Laan SW, Perry JR, Kong A; BIOS Consortium., Ahluwalia TS, Albrecht E, Yerges-Armstrong L, Atzman G, Auro K, Ayers K, Bakshi A, Ben-Avraham D, Berger K, Bergman A, Bertram L, Bielak LF, Bjornsdottir G, Bonder MJ, Broer L, Bui M, Barbieri C, Cavadino A, Chavarro JE, Turman C, Concias MP, Cordell HJ, Davies G, Eibich P, Eriksson N, Esko T, Eriksson J, Falah F, Felix JF, Fontana MA, Franke L, Gandin I, Gaskins AJ, Gieger C, Gunderson EP, Guo X, Hayward C, He C, Hofer E, Huang H, Joshi PK, Kanoni S, Karlsson R, Kiechl S, Kifley A, Klutwig A, Kraft P, Lagou V, Lecoeur C, Lahti J, Li-Gao R, Lind PA, Liu T, Makalic E, Mamasoula

C, Matteson L, Mbarek H, McArdle PF, McMahon G, Meddens SF, Mihailov E, Miller M, Missmer SA, Monnereau C, van der Most PJ, Myhre R, Nalls MA, Nutile T, Kalafati IP, Porcu E, Prokopenko I, Rajan KB, Rich-Edwards J, Rietveld CA, Robino A, Rose LM, Rueedi R, Ryan KA, Saba Y, Schmidt D, Smith JA, Stolk L, Streeten E, Tönjes A, Thorleifsson G, Ulivi S, Wedenoja J, Wellmann J, Willeit P, Yao J, Yengo L, Zhao JH, Zhao W, Zhernakova DV, Amin N, Andrews H, Balkau B, Barzilai N, Bergmann S, Biino G, Bisgaard H, Bønnelykke K, Boomsma DI, Buring JE, Campbell H, Cappellani S, Ciullo M, Cox SR, Cucca F, Toniolo D, Davey-Smith G, Deary IJ, Dedoussis G, Deloukas P, van Duijn CM, de Geus EJ, Eriksson JG, Evans DA, Faul JD, Sala CF, Froguel P, Gasparini P, Girotto G, Grabe HJ, Greiser KH, Groenen PJ, de Haan HG, Haerting J, Harris TB, Heath AC, Heikkilä K, Hofman A, Homuth G, Holliday EG, Hopper J, Hyppönen E, Jacobsson B, Jaddoe VW, Johannesson M, Jugessur A, Kähönen M, Kajantie E, **Kardia SL**, Keavney B, Kolcic I, Koponen P, Kovacs P, Kronenberg F, Kutalik Z, La Bianca M, Lachance G, Iacono WG, Lai S, Lehtimäki T, Liewald DC; LifeLines Cohort Study., Lindgren CM, Liu Y, Luben R, Lucht M, Luoto R, Magnus P, Magnusson PK, Martin NG, McGue M, McQuillan R, Medland SE, Meisinger C, Mellström D, Metspalu A, Traglia M, Milani L, Mitchell P, Montgomery GW, Mook-Kanamori D, de Mutsert R, Nohr EA, Ohlsson C, Olsen J, Ong KK, Paternoster L, Pattie A, Penninx BW, Perola M, Peyser PA, Pirastu M, Polasek O, Power C, Kaprio J, Raffel LJ, Räikkönen K, Raitakari O, Ridker PM, Ring SM, Roll K, Rudan I, Ruggiero D, Rujescu D, Salomaa V, Schlessinger D, Schmidt H, Schmidt R, Schupf N, Smit J, Sorice R, Spector TD, Starr JM, Stöckl D, Strauch K, Stumvoll M, Swertz MA, Thorsteinsdottir U, Thurik AR, Timpson NJ, Tung JY, Uitterlinden AG, Vaccargiu S, Viikari J, Vitart V, Völzke H, Vollenweider P, Vuckovic D, Waage J, Wagner GG, Wang JJ, Wareham NJ, Weir DR, Willemsen G, Willeit J, Wright AF, Zondervan KT, Stefansson K, Krueger RF, Lee JJ, Benjamin DJ, Cesarini D, Koellinger PD, den Hoed M, Snieder H, Mills MC (2016) Genome-wide analysis identifies 12 loci influencing human reproductive behavior. *Nature Genetics* 48(12):1462-1472. PMID: 27798627. PMCID: PMC5695684

260. Natarajan P, Bis JC, Bielak LF, Cox AJ, Dörr M, Feitosa MF, Franceschini N, Guo X, Hwang SJ, Isaacs A, Jhun MA, Kavousi M, Li-Gao R, Lyytikäinen LP, Marioni RE, Schminke U, Stitzel NO, Tada H, van Setten J, Smith AV, Vojinovic D, Yanek LR, Yao J, Yerges-Armstrong LM, Amin N, Baber U, Borecki IB, Carr JJ, Chen YI, Cupples LA, de Jong PA, de Koning H, de Vos BD, Demirkiran A, Fuster V, Franco OH, Goodarzi MO, Harris TB, Heckbert SR, Heiss G, Hoffmann U, Hofman A, Isgum I, Jukema JW, Kähönen M, **Kardia SL**, Kral BG, Launer LJ, Massaro J, Mehran R, Mitchell BD, Mosley TH Jr, de Mutsert R, Newman AB, Nguyen KD, North KE, O'Connell JR, Oudkerk M, Pankow JS, Peloso GM, Post W, Province MA, Raffield LM, Raitakari OT, Reilly DF, Rivadeneira F, Rosendaal F, Sartori S, Taylor KD, Teumer A, Trompet S, Turner ST, Uitterlinden AG, Vaidya D, van der Lught A, Völker U, Wardlaw JM, Wassel CL, Weiss S, Wojczynski MK, Becker DM, Becker LC, Boerwinkle E, Bowden DW, Deary IJ, Dehghan A, Felix SB, Gudnason V, Lehtimäki T, Mathias R, Mook-Kanamori DO, Psaty BM, Rader DJ, Rotter JI, Wilson JG, van Duijn CM, Völzke H, Kathiresan S, Peyser PA, O'Donnell CJ; CHARGE Consortium (2016) Multiethnic exome-wide association study of subclinical atherosclerosis. *Circulation Cardiovascular Genetics* 9(6):511-520. PMID: 27872105. PMCID: PMC5418659

261. Lighthart S, Marzi C, Aslibekyan S, Mendelson MM, Conneely KN, Tanaka T, Colicino E, Waite LL, Joehanes R, Guan W, Brody JA, Elks C, Marioni R, Jhun MA, Agha G, Bressler J, Ward-Caviness CK, Chen BH, Huan T, Bakulski K, Salfati EL, WHI-EMPC Investigators, Fiorito G, CHARGE epigenetics of Coronary Heart Disease, Wahl S, Schramm K, Sha J, Hernandez DG, Just AC, Smith JA, Sotoodehnia N, Pilling LC, Pankow JS, Tsao PS, Liu C, Zhao W, Guerrera S, Michopoulos V, Smith AK, Peters MJ, Melzer D, Vokonas P, Fornage M, Prokisch H, Bis JC, Chu AY, Herder C, Grallert H, Yao C, Shah S, McRae AF, Lin H, Horvath S, Fallin D, Hofman A, Wareham NJ, Wiggins KL, Feinberg AP, Starr JM, Visscher PM, Murabito JM, **Kardia SLR**, Absher DM, Binder EB, Singleton AB, Bandinelli S, Peters A, Waldenberger M, Matullo G, Schwartz JD, Demerath EW, Uitterlinden AG, van Meurs JBJ, Franco OH, Chen Y, Levy D, Turner ST, Deary IJ, Ressler KJ, Dupuis J, Ferrucci L, Ong KK, Assimes TL, Boerwinkle E, Koenig W, Arnett DK, Baccarelli AA, Benjamin EJ, Dehghan A (2016) DNA methylation signatures of chronic low-grade inflammation are associated with complex diseases. *Genome Biology* 17(1):255. PMID: 27955697. PMCID: PMC5151130
262. Direk N, Williams S, Smith J, Ripke S, Air T, Amare AT, Amin N, Baune BT, Bennett DA, Blackwood DHR, Boomsma D, Breen G, Buttenschøn HN, Byrne EM, Børglum AD, Castelao E, Cichon S, Clarke T-K, Cornelis MC, Dannowski U, De Jager PL, Demirkiran A, Domenici E, van Duijn CM, Dunn EC, Eriksson JG, Esko T, Faul JD, Ferrucci L, Fornage M, de Geus E, Gill M, Gordon SD, Grabe HJ, van Grootheest G, Hamilton SP, Hartman CA, Heath AC, Hek K, Hofman A, Homuth G, Horn C, Hottenga JJ, **Kardia SLR**, Kloiber S, Koenen K, Katalik Z, Ladwig K-H, Lahti J, Levinson DF, Lewis CM, Lewis G, Li QS, Llewellyn DJ, Lucae S, Lunetta KL, MacIntyre DJ, Madden P, Martin NG, McIntosh AM, Metspalu A, Milaneschi Y, Montgomery GW, Mors O, Mosley Jr. TH, Murabito JM, Müller-Myhsok B, Nöthen MM, Nyholt DR, O'Donovan MC, Penninx BW, Pergadia ML, Perlis R, Potash JB, Preisig M, Purcell SM, Quiroz JA, Räikkönen K, Rice JP, Rietschel M, Rivera M, Schulze TG, Shi J, Shyn S, Sinnamon GC, Smit JH, Smoller JW, Snieder H, Tanaka T, Tansey KE, Teumer A, Uher R, Umbrecht D, Van der Auwera S, Ware EB, Weir DR, Weissman MM, Willemse G, Yang J, Zhao W, Tiemeier H, Sullivan PF (2016) An analysis of two genome-wide association meta-analyses identifies a new locus for broad depression phenotype. *Biological Psychiatry* 82(5):322-329. PMID: 28049566. PMCID: PMC5462867
263. Wang H, Choi Y, Tayo B, Wang X, Morris N, Zhang X, Broeckel U, Hanis C, **Kardia S**, Redline S, Cooper RS, Tang H, Zhu X (2017) Genome-wide survey in African Americans demonstrates potential epistasis of fitness in the human genome. *Genetic Epidemiology* 41(2):122-135. PMID: 27917522. PMCID: PMC5226866
264. Chu AY, Deng X, Fisher VA, Drong A, Zhang Y, Feitosa MF, Liu CT, Weeks O, Choh AC, Duan Q, Dyer TD, Eicher JD, Guo X, Heard-Costa NL, Kacprowski T, Kent JW Jr, Lange LA, Liu X, Lohman K, Lu L, Mahajan A, O'Connell JR, Parihar A, Peralta JM, Smith AV, Zhang Y, Homuth G, Kisseeah AH, Kullberg J, Laqua R, Launer LJ, Nauck M, Olivier M, Peyser PA, Terry JG, Wojczynski MK, Yao J, Bielak LF, Blangero J, Borecki IB, Bowden DW, Carr JJ, Czerwinski SA, Ding J, Friedrich N, Gudnason V, Harris TB,

Ingelsson E, Johnson AD, **Kardia SL**, Langefeld CD, Lind L, Liu Y, Mitchell BD, Morris AP, Mosley TH Jr, Rotter JI, Shuldiner AR, Towne B, Völzke H, Wallaschofski H, Wilson JG, Allison M, Lindgren CM, Goessling W, Cupples LA, Steinhauser ML, Fox CS (2017) Multiethnic genome-wide meta-analysis of ectopic fat depots identifies loci associated with adipocyte development and differentiation. *Nature Genetics* 49(1):125-130. PMID:27918534. PMCID: PMC5451114

265. Li M, Li Y, Weeks O, Mijatovic V, Teumer A, Huffman JE, Tromp G, Fuchsberger C, Gorski M, Lyttikäinen LP, Nutile T, Sedaghat S, Sorice R, Tin A, Yang Q, Ahluwalia TS, Arking DE, Bihlmeyer NA, Böger CA, Carroll RJ, Chasman DI, Cornelis MC, Dehghan A, Faul JD, Feitosa MF, Gambaro G, Gasparini P, Giulianini F, Heid I, Huang J, Imboden M, Jackson AU, Jeff J, Jhun MA, Katz R, Kifley A, Kilpeläinen TO, Kumar A, Laakso M, Li-Gao R, Lohman K, Lu Y, Mägi R, Mallerba G, Mihailov E, Mohlke KL, Mook-Kanamori DO, Robino A, Ruderfer D, Salvi E, Schick UM, Schulz CA, Smith AV, Smith JA, Traglia M, Yerges-Armstrong LM, Zhao W, Goodarzi MO, Kraja AT, Liu C, Wessel J; CHARGE Glycemic-T2D Working Group,.; CHARGE Blood Pressure Working Group,., Boerwinkle E, Borecki IB, Bork-Jensen J, Bottinger EP, Braga D, Brandslund I, Brody JA, Campbell A, Carey DJ, Christensen C, Coresh J, Crook E, Curhan GC, Cusi D, de Boer IH, de Vries AP, Denny JC, Devuyst O, Dreisbach AW, Endlich K, Esko T, Franco OH, Fulop T, Gerhard GS, Glümer C, Gottesman O, Grarup N, Gudnason V, Harris TB, Hayward C, Hocking L, Hofman A, Hu FB, Husemoen LL, Jackson RD, Jørgensen T, Jørgensen ME, Kähönen M, **Kardia SL**, König W, Kooperberg C, Kriebel J, Launer LJ, Lauritsen T, Lehtimäki T, Levy D, Linksted P, Linneberg A, Liu Y, Loos RJ, Lupo A, Meisinger C, Melander O, Metspalu A, Mitchell P, Nauck M, Nürnberg P, Orho-Melander M, Parsa A, Pedersen O, Peters A, Peters U, Polasek O, Porteous D, Probst-Hensch NM, Psaty BM, Qi L, Raitakari OT, Reiner AP, Rettig R, Ridker PM, Rivadeneira F, Rossouw JE, Schmidt F, Siscovick D, Soranzo N, Strauch K, Toniolo D, Turner ST, Uitterlinden AG, Ulivi S, Velayutham D, Völker U, Völzke H, Waldenberger M, Wang JJ, Weir DR, Witte D, Kuivaniemi H, Fox CS, Franceschini N, Goessling W, Köttgen A, Chu AY (2017) SOS2 and ACP1 loci identified through large-scale exome chip analysis regulate kidney development and function. *Journal of American Society of Nephrology* 28(3):981-994. PMID: 27920155. PMCID: PMC5328154
266. Marouli E, Graff M, Medina-Gomez C, Lo KS, Wood AR, Kjaer TR, Fine RS, Lu Y, Schurmann C, Highland HM, Rüeger S, Thorleifsson G, Justice AE, Lamparter D, Stirrups KE, Turcot V, Young KL, Winkler TW, Esko T, Karaderi T, Locke AE, Masca NG, Ng MC, Mudgal P, Rivas MA, Vedantam S, Mahajan A, Guo X, Abecasis G, Aben KK, Adair LS, Alam DS, Albrecht E, Allin KH, Allison M, Amouyel P, Appel EV, Arveiler D, Asselbergs FW, Auer PL, Balkau B, Banas B, Bang LE, Benn M, Bergmann S, Bielak LF, Blüher M, Boeing H, Boerwinkle E, Böger CA, Bonnycastle LL, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Burt AA, Butterworth AS, Carey DJ, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Galbany JC, Cox AJ, Cuellar-Partida G, Danesh J, Davies G, de Bakker PI, de Borst GJ, de Denus S, de Groot MC, de Mutsert R, Deary IJ, Dedoussis G, Demerath EW, den Hollander AI,

Dennis JG, Di Angelantonio E, Drenos F, Du M, Dunning AM, Easton DF, Ebeling T, Edwards TL, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Faul JD, Feitosa MF, Feng S, Ferrannini E, Ferrario MM, Ferrieres J, Florez JC, Ford I, Fornage M, Franks PW, Frikkie-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Giedraitis V, Giri A, Girotto G, Gordon SD, Gordon-Larsen P, Gorski M, Grarup N, Grove ML, Guadnason V, Gustafsson S, Hansen T, Harris KM, Harris TB, Hattersley AT, Hayward C, He L, Heid IM, Heikkilä K, Helgeland Ø, Hernesniemi J, Hewitt AW, Hocking LJ, Hollensted M, Holmen OL, Hovingh GK, Howson JM, Hoyng CB, Huang PL, Hveem K, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jhun MA, Jia Y, Jiang X, Johansson S, Jørgensen ME, Jørgensen T, Jousilahti P, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, **Kardia SL**, Karpe F, Kee F, Keeman R, Kiemeney LA, Kitajima H, Kluivers KB, Kocher T, Komulainen P, Kontto J, Kooperberg C, Kovacs P, Kriebel J, Kuivaniemi H, Küry S, Kuusisto J, La Bianca M, Laakso M, Lakka TA, Lange EM, Lange LA, Langefeld CD, Langenberg C, Larson EB, Lee IT, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu Y, Liu Y, Lophatananon A, Luan J, Lubitz SA, Lyytikäinen LP, Mackey DA, Madden PA, Manning AK, Männistö S, Marenne G, Marten J, Martin NG, Mazul AL, Meidner K, Metspalu A, Mitchell P, Mohlke KL, Mook-Kanamori DO, Morgan A, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Nauck M, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Ntalla I, O'Connel JR, Oksa H, Loohuis LM, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CN, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JR, Person TN, Pirie A, Polasek O, Posthuma D, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Reiner AP, Renström F, Ridker PM, Rioux JD, Robertson N, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sandow K, Sapkota Y, Sattar N, Schmidt MK, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah S, Sim X, Sivapalaratnam S, Small KS, Smith AV, Smith JA, Southam L, Spector TD, Speliotes EK, Starr JM, Steinhorsdottir V, Stringham HM, Stumvoll M, Surendran P, 't Hart LM, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Ulivi S, van der Laan SW, Van Der Leij AR, van Duijn CM, van Schoor NM, van Setten J, Varbo A, Varga TV, Varma R, Edwards DR, Vermeulen SH, Vestergaard H, Vitart V, Vogt TF, Vozzi D, Walker M, Wang F, Wang CA, Wang S, Wang Y, Wareham NJ, Warren HR, Wessel J, Willems SM, Wilson JG, Witte DR, Woods MO, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhao W, Zheng H, Zhou W; EPIC-InterAct Consortium.; CHD Exome+ Consortium.; ExomeBP Consortium.; T2D-Genes Consortium.; GoT2D Genes Consortium.; Global Lipids Genetics Consortium.; ReproGen Consortium.; MAGIC Investigators., Rotter JI, Boehnke M, Kathiresan S, McCarthy MI, Willer CJ, Stefansson K, Borecki IB, Liu DJ, North KE, Heard-Costa NL, Pers TH, Lindgren CM, Oxvig C, Kutalik Z, Rivadeneira F, Loos RJ, Frayling TM, Hirschhorn JN, Deloukas P, Lettre G (2017) Rare and low-frequency coding variants alter human adult height. *Nature* 542(7640):186-190. PMID: 28146470. PMCID: PMC5302847

267. Jones JK, Tave A, Pezzullo JC, **Kardia S**, Lippes J (2017) Long-term risk of reproductive cancer among Vietnamese women using the quinacrine hydrochloride pellet system vs. intrauterine devices or tubal ligation for contraception. *European Journal of Contraception and Reproductive Health Care* 22(2):123-130. PMID: 28256916.
268. He KY, Wang H, Cade BE, Nandakumar P, Giri A, Ware EB, Haessler J, Liang J, Smith JA, Franceschini N, Le TH, Kooperberg C, Edwards TL, **Kardia SL**, Lin X, Chakravarti A, Redline S, Zhu X (2017) Rare variants in fox-1 homolog A (RBFOX1) are associated with lower blood pressure. *PloS Genetics* 13(3):e1006678. PMID: 28346479. PMCID: PMC5386302
269. Nandakumar P, Lee D, Richard MA, Tekola-Ayele F, Tayo BO, Ware E, Sung YJ, Salako B, Ogunniyi A, Gu CC, Grove ML, Fornage M, **Kardia S**, Rotima C, Cooper RS, Morrison AC, Ehret G, Chakravarti A (2017) Rare coding variants associated with blood pressure variation in 15914 individuals of African ancestry. *Journal of Hypertension* 35(7):1381-1389. PMID: 28234671. PMCID: PMC5451310
270. Böger CA, Gorski M, McMahon GM, Xu H, Chang YC, van der Most PJ, Navis G, Nolte IM, de Borst MH, Zhang W, Lehne B, Loh M, Tan ST, Boerwinkle E, Grams ME, Sekula P, Li M, Wilmot B, Moon JG, Scheet P, Cucca F, Xiao X, Lyytikäinen LP, Delgado G, Grammer TB, Kleber ME, Sedaghat S, Rivadeneira F, Corre T, Katalik Z, Bergmann S, Nielson CM, Srikanth P, Teumer A, Müller-Nurasyid M, Brockhaus AC, Pfeufer A, Rathmann W, Peters A, Matsumoto M, de Andrade M, Atkinson EJ, Robinson-Cohen C, de Boer IH, Hwang SJ, Heid IM, Gögele M, Concias MP, Tanaka T, Bandinelli S, Nalls MA, Singleton A, Tajuddin SM, Adeyemo A, Zhou J, Doumatey A, McWeeney S, Murabito J, Franceschini N, Flessner M, Shlipak M, Wilson JG, Chen G, Rotimi CN, Zonderman AB, Evans MK, Ferrucci L, Devuyst O, Pirastu M, Shuldiner A, Hicks AA, Pramstaller PP, Kestenbaum B, **Kardia SL**, Turner ST, Study LC, Briske TE, Gieger C, Strauch K, Meisinger C, Meitinger T, Völker U, Nauck M, Völzke H, Vollenweider P, Bochud M, Waeber G, Kähönen M, Lehtimäki T, März W, Dehghan A, Franco OH, Uitterlinden AG, Hofman A, Taylor HA, Chambers JC, Kooner JS, Fox CS, Hitzemann R, Orwoll ES, Pattaro C, Schlessinger D, Köttgen A, Snieder H, Parsa A, Cohen DM (2017) *NFAT5* and *SLC4A10* Loci Associate with Plasma Osmolality. *Journal of American Society of Nephrology* 28(8):2311-2321. PMID: 28360221. PMCID: PMC5533231
271. Platt T, Platt J, Thiel D, **Kardia SL** (2017) Engaging a state: Facebook comments on a large population biobank. *Journal of Community Genetics* 8(3): 183-197. PMID: 28382416. PMCID: PMC5496840
272. Ng MCY, Graff M, Lu Y, Justice AE, Mudgal P, Liu CT, Young K, Yanek LR, Feitosa MF, Wojczynski MK, Rand K, Brody JA, Cade BE, Dimitrov L, Duan Q, Guo X, Lange LA, Nalls MA, Okut H, Tajuddin SM, Tayo BO, Vedantam S, Bradfield JP, Chen G, Chen WM, Chesi A, Irvin MR, Padhukasahasram B, Smith JA, Zheng W, Allison MA, Ambrosone CB, Bandera EV, Bartz TM, Berndt SI, Bernstein L, Blot WJ, Bottinger EP, Carpten J, Chanock SJ, Chen YI, Conti DV, Cooper RS, Fornage M, Freedman BI, Garcia M, Goodman PJ, Hsu YH, Hu J, Huff CD, Ingles SA, John EM, Kittles R, Klein E, Li J,

McKnight B, Nayak U, Nemesure B, Ogunniyi A, Olshan A, Press MF, Rohde R, Rybicki BA, Salako B, Sanderson M, Shao Y, Siscovick DS, Stanford JL, Stevens VL, Stram A, Strom SS, Vaidya D, Witte JS, Yao J, Zhu X, Ziegler RG, Zonderman AB, Adeyemo A, Ambs S, Cushman M, Faul JD, Hakonarson H, Levin AM, Nathanson KL, Ware EB, Weir DR, Zhao W, Zhi D; Bone Mineral Density in Childhood Study (BMDCS) Group, Arnett DK, Grant SFA, **Kardia SLR**, Olopade OI, Rao DC, Rotimi CN, Sale MM, Williams LK, Zemel BS, Becker DM, Borecki IB, Evans MK, Harris TB, Hirschhorn JN, Li Y, Patel SR, Psaty BM, Rotter JI, Wilson JG, Bowden DW, Cupples LA, Haiman CA, Loos RJF, North KE (2017) 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. *PloS Genetics* 13(4):e1006719. PMID: 28430825. PMCID: PMC5419579

273. Justice AE, Winkler TW, Feitosa MF, Graff M, Fisher VA, Young K, Barata L, Deng X, Czajkowski J, Hadley D, Ngwa JS, Ahluwalia TS, Chu AY, Heard-Costa NL, Lim E, Perez J, Eicher JD, Katalik Z, Xue L, Mahajan A, Renström F, Wu J, Qi Q, Ahmad S, Alfred T, Amin N, Bielak LF, Bonnefond A, Bragg J, Cadby G, Chittani M, Coggesshall S, Corre T, Direk N, Eriksson J, Fischer K, Gorski M, Neergaard Harder M, Horikoshi M, Huang T, Huffman JE, Jackson AU, Justesen JM, Kanoni S, Kinnunen L, Kleber ME, Komulainen P, Kumari M, Lim U, Luan J, Lyytikäinen LP, Mangino M, Manichaikul A, Marten J, Middelberg RPS, Müller-Nurasyid M, Navarro P, Pérušse L, Pervjakova N, Sarti C, Smith AV, Smith JA, Stančáková A, Strawbridge RJ, Stringham HM, Sung YJ, Tanaka T, Teumer A, Trompet S, van der Laan SW, van der Most PJ, Van Vliet-Ostaptchouk JV, Vedantam SL, Verweij N, Vink JM, Vitart V, Wu Y, Yengo L, Zhang W, Hua Zhao J, Zimmermann ME, Zubair N, Abecasis GR, Adair LS, Afaq S, Afzal U, Bakker SJL, Bartz TM, Beilby J, Bergman RN, Bergmann S, Biffar R, Blangero J, Boerwinkle E, Bonnycastle LL, Bottinger E, Braga D, Buckley BM, Buyske S, Campbell H, Chambers JC, Collins FS, Curran JE, de Borst GJ, de Craen AJM, de Geus EJC, Dedoussis G, Delgado GE, den Ruijter HM, Eiriksdottir G, Eriksson AL, Esko T, Faul JD, Ford I, Forrester T, Gertow K, Gigante B, Glorioso N, Gong J, Grallert H, Grammer TB, Grarup N, Haitjema S, Hallmans G, Hamsten A, Hansen T, Harris TB, Hartman CA, Hassinen M, Hastie ND, Heath AC, Hernandez D, Hindorff L, Hocking LJ, Hollensted M, Holmen OL, Homuth G, Jan Hottenga J, Huang J, Hung J, Hutri-Kähönen N, Ingelsson E, James AL, Jansson JO, Jarvelin MR, Jhun MA, Jørgensen ME, Juonala M, Kähönen M, Karlsson M, Koistinen HA, Kolcic I, Kolovou G, Kooperberg C, Krämer BK, Kuusisto J, Kvaløy K, Lakka TA, Langenberg C, Launer LJ, Leander K, Lee NR, Lind L, Lindgren CM, Linneberg A, Lobbens S, Loh M, Lorentzon M, Luben R, Lubke G, Ludolph-Donislawski A, Lupoli S, Madden PAF, Männikkö R, Marques-Vidal P, Martin NG, McKenzie CA, McKnight B, Mellström D, Menni C, Montgomery GW, Musk AB, Narisu N, Nauck M, Nolte IM, Oldehinkel AJ, Olden M, Ong KK, Padmanabhan S, Peyser PA, Pisinger C, Porteous DJ, Raitakari OT, Rankinen T, Rao DC, Rasmussen-Torvik LJ, Rawal R, Rice T, Ridker PM, Rose LM, Bien SA, Rudan I, Sanna S, Sarzynski MA, Sattar N, Savonen K, Schlessinger D, Scholtens S, Schurmann C, Scott RA, Sennblad B, Siemelink MA, Silbernagel G, Slagboom PE, Snieder H, Staessen JA, Stott DJ, Swertz MA, Swift AJ, Taylor KD, Tayo BO, Thorand B, Thuillier D, Tuomilehto J, Uitterlinden AG, Vandendput L, Vohl MC, Völzke H, Vonk JM, Waeber G, Waldenberger M, Westendorp RGJ, Wild S, Willemsen

G, Wolffenbuttel BHR, Wong A, Wright AF, Zhao W, Zillikens MC, Baldassarre D, Balkau B, Bandinelli S, Böger CA, Boomsma DI, Bouchard C, Bruinenberg M, Chasman DI, Chen YD, Chines PS, Cooper RS, Cucca F, Cusi D, Faire U, Ferrucci L, Franks PW, Froguel P, Gordon-Larsen P, Grabe HJ, Gudnason V, Haiman CA, Hayward C, Hveem K, Johnson AD, Wouter Jukema J, **Kardia SLR**, Kivimaki M, Kooner JS, Kuh D, Laakso M, Lehtimäki T, Marchand LL, März W, McCarthy MI, Metspalu A, Morris AP, Ohlsson C, Palmer LJ, Pasterkamp G, Pedersen O, Peters A, Peters U, Polasek O, Psaty BM, Qi L, Rauramaa R, Smith BH, Sørensen TIA, Strauch K, Tiemeier H, Tremoli E, van der Harst P, Vestergaard H, Vollenweider P, Wareham NJ, Weir DR, Whitfield JB, Wilson JF, Tyrrell J, Frayling TM, Barroso I, Boehnke M, Deloukas P, Fox CS, Hirschhorn JN, Hunter DJ, Spector TD, Strachan DP, van Duijn CM, Heid IM, Mohlke KL, Marchini J, Loos RJF, Kilpeläinen TO, Liu CT, Borecki IB, North KE, Cupples LA (2017) Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. *Nature Communications* 8:14977. PMID: 28443625. PMCID: PMC5414044

274. Graff M, Scott RA, Justice AE, Young KL, Feitosa MF, Barata L, Winkler TW, Chu AY, Mahajan A, Hadley D, Xue L, Workalemahu T, Heard-Costa NL, den Hoed M, Ahluwalia TS, Qi Q, Ngwa JS, Renström F, Quaye L, Eicher JD, Hayes JE, Cornelis M, Kutalik Z, Lim E, Luan J, Huffman JE, Zhang W, Zhao W, Griffin PJ, Haller T, Ahmad S, Marques-Vidal PM, Bien S, Yengo L, Teumer A, Smith AV, Kumari M, Harder MN, Justesen JM, Kleber ME, Hollensted M, Lohman K, Rivera NV, Whitfield JB, Zhao JH, Stringham HM, Lyytikäinen LP, Huppertz C, Willemsen G, Peyrot WJ, Wu Y, Kristiansson K, Demirkiran A, Fornage M, Hassinen M, Bielak LF, Cadby G, Tanaka T, Mägi R, van der Most PJ, Jackson AU, Bragg-Gresham JL, Vitart V, Marten J, Navarro P, Bellis C, Pasko D, Johansson Å, Snitker S, Cheng YC, Eriksson J, Lim U, Aadahl M, Adair LS, Amin N, Balkau B, Auvinen J, Beilby J, Bergman RN, Bergmann S, Bertoni AG, Blangero J, Bonnefond A, Bonnycastle LL, Borja JB, Brage S, Busonero F, Buyske S, Campbell H, Chines PS, Collins FS, Corre T, Smith GD, Delgado GE, Dueker N, Dörr M, Ebeling T, Eiriksdottir G, Esko T, Faul JD, Fu M, Færch K, Gieger C, Gläser S, Gong J, Gordon-Larsen P, Grallert H, Grammer TB, Grarup N, van Grootheest G, Harald K, Hastie ND, Havulinna AS, Hernandez D, Hindorff L, Hocking LJ, Holmens OL, Holzapfel C, Hottenga JJ, Huang J, Huang T, Hui J, Huth C, Hutri-Kähönen N, James AL, Jansson JO, Jhun MA, Juonala M, Kinnunen L, Koistinen HA, Kolcic I, Komulainen P, Kuusisto J, Kvaløy K, Kähönen M, Lakka TA, Launer LJ, Lehne B, Lindgren CM, Lorentzon M, Luben R, Marre M, Milaneschi Y, Monda KL, Montgomery GW, De Moor MHM, Mulas A, Müller-Nurasyid M, Musk AW, Männikkö R, Männistö S, Narisu N, Nauck M, Nettleton JA, Nolte IM, Oldehinkel AJ, Olden M, Ong KK, Padmanabhan S, Paternoster L, Perez J, Perola M, Peters A, Peters U, Peyser PA, Prokopenko I, Puolijoki H, Raitakari OT, Rankinen T, Rasmussen-Torvik LJ, Rawal R, Ridker PM, Rose LM, Rudan I, Sarti C, Sarzynski MA, Savonen K, Scott WR, Sanna S, Shuldiner AR, Sidney S, Silbernagel G, Smith BH, Smith JA, Snieder H, Stančáková A, Sternfeld B, Swift AJ, Tammelin T, Tan ST, Thorand B, Thuillier D, Vandenput L, Vestergaard H, van Vliet-Ostaptchouk JV, Vohl MC, Völker U, Waeber G, Walker M, Wild S, Wong A, Wright AF, Zillikens MC, Zubair N, Haiman CA, Lemarchand L, Gyllensten U, Ohlsson C, Hofman A, Rivadeneira F, Uitterlinden AG, Pérusse L, Wilson JF, Hayward C, Polasek O, Cucca F, Hveem K, Hartman CA, Tönjes A, Bandinelli S, Palmer LJ, **Kardia SLR**, Rauramaa R, Sørensen

- TIA, Tuomilehto J, Salomaa V, Penninx BWJH, de Geus EJC, Boomsma DI, Lehtimäki T, Mangino M, Laakso M, Bouchard C, Martin NG, Kuh D, Liu Y, Linneberg A, März W, Strauch K, Kivimäki M, Harris TB, Gudnason V, Völzke H, Qi L, Järvelin MR, Chambers JC, Kooner JS, Froguel P, Kooperberg C, Vollenweider P, Hallmans G, Hansen T, Pedersen O, Metspalu A, Wareham NJ, Langenberg C, Weir DR, Porteous DJ, Boerwinkle E, Chasman DI; CHARGE Consortium; EPIC-InterAct Consortium; PAGE Consortium, Abecasis GR, Barroso I, McCarthy MI, Frayling TM, O'Connell JR, van Duijn CM, Boehnke M, Heid IM, Mohlke KL, Strachan DP, Fox CS, Liu CT, Hirschhorn JN, Klein RJ, Johnson AD, Borecki IB, Franks PW, North KE, Cupples LA, Loos RJF, Kilpeläinen TO (2017) Genome-wide physical activity interactions in adiposity - A meta-analysis of 200,452 adults. *PloS Genetics* 13(4):e1006528. PMID: 28448500. PMCID: PMC5567921
275. Liang J, Le TH, Edwards DRV, Tayo BO, Gaulton KJ, Smith JA, Lu Y, Jensen RA, Chen G, Yanek LR, Schwander K, Tajuddin SM, Sofer T, Kim W, Kayima J, McKenzie CA, Fox E, Nalls MA, Young JH, Sun YV, Lane JM, Cechova S, Zhou J, Tang H, Fornage M, Musani SK, Wang H, Lee J, Adeyemo A, Dreisbach AW, Forrester T, Chu PL, Cappola A, Evans MK, Morrison AC, Martin LW, Wiggins KL, Hui Q, Zhao W, Jackson RD, Ware EB, Faul JD, Reiner AP, Bray M, Denny JC, Mosley TH, Palmas W, Guo X, Papanicolaou GJ, Penman AD, Polak JF, Rice K, Taylor KD, Boerwinkle E, Bottinger EP, Liu K, Risch N, Hunt SC, Kooperberg C, Zonderman AB, Laurie CC, Becker DM, Cai J, Loos RJF, Psaty BM, Weir DR, **Kardia SLR**, Arnett DK, Won S, Edwards TL, Redline S, Cooper RS, Rao DC, Rotter JI, Rotimi C, Levy D, Chakravarti A, Zhu X, Franceschini N (2017) Single-trait and multi-trait genome-wide association analyses identify novel loci for blood pressure in African-ancestry populations. *PloS Genetics* 13(5):e1006728. PMID: 28498854. PMCID: PMC5446189
276. Sofer T, Wong Q, Hartwig FP, Taylor K, Warren HR, Evangelou E, Cabrera CP, Levy D, Kramer H, Lange LA, Horta BL; COGENT-BP consortium, Kerr KF, Reiner AP, Franceschini N (2017) Genome-Wide Association Study of Blood Pressure Traits by Hispanic/Latino Background: the Hispanic Community Health Study/Study of Latinos. *Science Reports* 7(1):10348. PMID: 28871152. PMCID: PMC5583292
277. Rannikmäe K, Sivakumaran V, Millar H, Malik R, Anderson CD, Chong M, Dave T, Falcone GJ, Fernandez-Cadenas I, Jimenez-Conde J, Lindgren A, Montaner J, O'Donnell M, Paré G, Radmanesh F, Rost NS, Slowik A, Söderholm M, Traylor M, Pulit SL, Seshadri S, Worrall BB, Woo D, Markus HS, Mitchell BD, Dichgans M, Rosand J, Sudlow CLM; Stroke Genetics Network (SiGN), METASTROKE Collaboration, and International Stroke Genetics Consortium (ISGC) (2017) COL4A2 is associated with lacunar ischemic stroke and deep ICH: Meta-analyses among 21,500 cases and 40,600 controls. *Neurology* 89(17):1829-1839. PMID: 28954878. PMCID: PMC5664302
278. Zhao W, Ware EB, He Z, **Kardia SLR**, Faul JD, Smith JA (2017) Interaction between Social/Psychosocial Factors and Genetic Variants on Body Mass Index: A Gene-Environment Interaction Analysis in a Longitudinal Setting. *International Journal of Environmental Research on Public Health* 14(10). PMID: 28961216. PMCID: PMC5664654

279. Kraja AT, Cook JP, Warren HR, Surendran P, Liu C, Evangelou E, Manning AK, Grarup N, Drenos F, Sim X, Smith AV, Amin N, Blakemore AIF, Bork-Jensen J, Brandslund I, Farmaki AE, Fava C, Ferreira T, Herzig KH, Giri A, Julianini F, Grove ML, Guo X, Harris SE, Have CT, Havulinna AS, Zhang H, Jørgensen ME, Käräjämäki A, Kooperberg C, Linneberg A, Little L, Liu Y, Bonnycastle LL, Lu Y, Mägi R, Mahajan A, Mallerba G, Marioni RE, Mei H, Menni C, Morrison AC, Padmanabhan S, Palmas W, Poveda A, Rauramaa R, Rayner NW, Riaz M, Rice K, Richard MA, Smith JA, Southam L, Stančáková A, Stirrups KE, Tragante V, Tuomi T, Tzoulaki I, Varga TV, Weiss S, Yiorkas AM, Young R, Zhang W, Barnes MR, Cabrera CP, Gao H, Boehnke M, Boerwinkle E, Chambers JC, Connell JM, Christensen CK, de Boer RA, Deary IJ, Dedoussis G, Deloukas P, Dominiczak AF, Dörr M, Joehanes R, Edwards TL, Esko T, Fornage M, Franceschini N, Franks PW, Gambaro G, Groop L, Hallmans G, Hansen T, Hayward C, Heikki O, Ingelsson E, Tuomilehto J, Jarvelin MR, **Kardia SLR**, Karpe F, Kooner JS, Lakka TA, Langenberg C, Lind L, Loos RJF, Laakso M, McCarthy MI, Melander O, Mohlke KL, Morris AP, Palmer CNA, Pedersen O, Polasek O, Poulter NR, Province MA, Psaty BM, Ridker PM, Rotter JI, Rudan I, Salomaa V, Samani NJ, Sever PJ, Skaaby T, Stafford JM, Starr JM, van der Harst P, van der Meer P; Understanding Society Scientific Group, van Duijn CM, Vergnaud AC, Gudnason V, Wareham NJ, Wilson JG, Willer CJ, Witte DR, Zeggini E, Saleheen D, Butterworth AS, Danesh J, Asselbergs FW, Wain LV, Ehret GB, Chasman DI, Caulfield MJ, Elliott P, Lindgren CM, Levy D, Newton-Cheh C, Munroe PB, Howson JMM; CHARGE EXOME BP, CHD Exome+, Exome BP, GoT2D:T2DGenes Consortia, The UK Biobank Cardio-Metabolic Traits Consortium Blood Pressure Working Group (2017) New Blood Pressure-Associated Loci Identified in Meta-Analyses of 475 000 Individuals. *Circulation Cardiovascular Genetics* 10(5). PMID: 29030403. PMCID: PMC5776077
280. Joshi PK, Pirastu N, Kentistou KA, Fischer K, Hofer E, Schraut KE, Clark DW, Nutile T, Barnes CLK, Timmers PRHJ, Shen X, Gandin I, McDaid AF, Hansen TF, Gordon SD, Julianini F, Boutin TS, Abdellaoui A, Zhao W, Medina-Gomez C, Bartz TM, Trompet S, Lange LA, Raffield L, van der Spek A, Galesloot TE, Proitsi P, Yanek LR, Bielak LF, Payton A, Murgia F, Concas MP, Biino G, Tajuddin SM, Seppälä I, Amin N, Boerwinkle E, Børglum AD, Campbell A, Demerath EW, Demuth I, Faul JD, Ford I, Gialluisi A, Gögele M, Graff M, Hingorani A, Hottenga JJ, Hougaard DM, Hurme MA, Ikram MA, Jylhä M, Kuh D, Lighart L, Lill CM, Lindenberger U, Lumley T, Mägi R, Marques-Vidal P, Medland SE, Milani L, Nagy R, Ollier WER, Peyser PA, Pramstaller PP, Ridker PM, Rivadeneira F, Ruggiero D, Saba Y, Schmidt R, Schmidt H, Slagboom PE, Smith BH, Smith JA, Sotoodehnia N, Steinhagen-Thiessen E, van Rooij FJA, Verbeek AL, Vermeulen SH, Vollenweider P, Wang Y, Werge T, Whitfield JB, Zonderman AB, Lehtimäki T, Evans MK, Pirastu M, Fuchsberger C, Bertram L, Pendleton N, **Kardia SLR**, Ciullo M, Becker DM, Wong A, Psaty BM, van Duijn CM, Wilson JG, Jukema JW, Kiemeney L, Uitterlinden AG, Franceschini N, North KE, Weir DR, Metspalu A, Boomsma DI, Hayward C, Chasman D, Martin NG, Sattar N, Campbell H, Esko T, Katalik Z, Wilson JF (2017) Genome-wide meta-analysis associates HLA-DQA1/DRB1 and LPA and lifestyle factors with human longevity. *Nature Communications* 8(1). PMID: 29030599. PMCID: PMC5715013

281. Perinpam M, Ware EB, Smith JA, Turner ST, **Kardia SLR**, Lieske JC (2017) Association of urinary citrate excretion, pH, and net gastrointestinal alkali absorption with diet, diuretic use, and blood glucose concentration. *Physiology Reports* 5(19). PMID: 29038354. PMCID: PMC5641929
282. He Z, Lee S, Zhang M, Smith JA, Guo X, Palmas W, **Kardia SLR**, Ionita-Laza I, Mukherjee B (2017) Rare-variant association tests in longitudinal studies, with an application to the Multi-Ethnic Study of Atherosclerosis (MESA). *Genetic Epidemiology* 41(8):801-810. PMID: 29076270. PMCID: PMC5696115
283. Ben-Avraham D, Karasik D, Verghese J, Lunetta KL, Smith JA, Eicher JD, Vered R, Deelen J, Arnold AM, Buchman AS, Tanaka T, Faul JD, Nethander M, Fornage M, Adams HH, Matteini AM, Callisaya ML, Smith AV, Yu L, De Jager PL, Evans DA, Gudnason V, Hofman A, Pattie A, Corley J, Launer LJ, Knopman DS, Parimi N, Turner ST, Bandinelli S, Beekman M, Gutman D, Sharvit L, Mooijaart SP, Liewald DC, Houwing-Duistermaat JJ, Ohlsson C, Moed M, Verlinden VJ, Mellström D, van der Geest JN, Karlsson M, Hernandez D, McWhirter R, Liu Y, Thomson R, Tranah GJ, Uitterlinden AG, Weir DR, Zhao W, Starr JM, Johnson AD, Ikram MA, Bennett DA, Cummings SR, Deary IJ, Harris TB, **Kardia SLR**, Mosley TH, Srikanth VK, Windham BG, Newman AB, Walston JD, Davies G, Evans DS, Slagboom EP, Ferrucci L, Kiel DP, Murabito JM, Atzmon G (2017) The complex genetics of gait speed: genome-wide meta-analysis approach. *Aging* 9(1):209-246. PMID: 28077804. PMCID: PMC5310665
284. Stern AM, Novak NL, Lira N, O'Connor K, Harlow S, **Kardia S** (2017) California's Sterilization Survivors: An Estimate and Call for Redress. *American Journal of Public Health* 107(1):50-54. 107(1):50-54. PMID: 27854540
285. Smith JA, Zhao W, Wang X, Ratliff SM, Mukherjee B, **Kardia SLR**, Liu Y, Diez Roux AV, Needham BL (2017) Neighborhood characteristics influence DNA methylation of genes involved in stress response and inflammation: The Multi-Ethnic Study of Atherosclerosis. *Epigenetics* 12(8):662-673. PMID: 28678593. PMCID: PMC5687339
286. Jhun MA, Smith JA, Ware EB, **Kardia SLR**, Mosley TH Jr, Turner ST, Peyser PA, Park SK (2017) Modeling the Causal Role of DNA Methylation in the Association Between Cigarette Smoking and Inflammation in African Americans: A 2-Step Epigenetic Mendelian Randomization Study. *American Journal of Epidemiology* 186(10):1149-1158. PMID: 29149250. PMCID: PMC5860475.
287. Do AN, Zhao W, Srinivasasainagendra V, Aslibekyan S, Tiwari HK, Limdi N, Shah SJ, Zhi D, Broeckel U, Gu CC, Rao DC, Schwander K, Smith JA, **Kardia SLR**, Arnett DK, Irvin MR. Whole exome analyses to examine the impact of rare variants on left ventricular traits in African American participants from the HyperGEN and GENOA studies. *J Hypertens Manag.* 2017;3(1):025. doi: 10.23937/2474-3690/1510025. Epub 2017 Jul 20. PMID: 29503979; PMCID: PMC5831560.

288. Richard MA, Huan T, Lighthart S, Gondalia R, Jhun MA, Brody JA, Irvin MR, Marioni R, Shen J, Tsai PC, Montasser ME, Jia Y, Syme C, Salfati EL, Boerwinkle E, Guan W, Mosley TH Jr, Bressler J, Morrison AC, Liu C, Mendelson MM, Uitterlinden AG, van Meurs JB; BIOS Consortium, Franco OH, Zhang G, Li Y, Stewart JD, Bis JC, Psaty BM, Chen YI, Kardia SLR, Zhao W, Turner ST, Absher D, Aslibekyan S, Starr JM, McRae AF, Hou L, Just AC, Schwartz JD, Vokonas PS, Menni C, Spector TD, Shuldiner A, Damcott CM, Rotter JI, Palmas W, Liu Y, Paus T, Horvath S, O'Connell JR, Guo X, Pausova Z, Assimes TL, Sotoodehnia N, Smith JA, Arnett DK, Deary IJ, Baccarelli AA, Bell JT, Whitsel E, Dehghan A, Levy D, Fornage M (2017) DNA Methylation Analysis Identifies Loci for Blood Pressure Regulation. *American Journal of Human Genetics* 101(6):888-902. PMID: 29198723. PMCID: PMC5812919.
289. Platt JE, Jacobson PD, Kardia SLR. Public Trust in Health Information Sharing: A Measure of System Trust. *Health Serv Res.* 2018 Apr;53(2):824-845. doi: 10.1111/1475-6773.12654. Epub 2017 Jan 18. PMID: 28097657; PMCID: PMC5867170.
290. Smith JA, Zhao W, Yasutake K, August C, Ratliff SM, Faul JD, Boerwinkle E, Chakravarti A, Diez Roux AV, Gao Y, Griswold ME, Heiss G, **Kardia SLR**, Morrison AC, Musani SK, Mwasongwe S, North KE, Rose KM, Sims M, Sun YV, Weir DR, Needham BL (2017) Gene-by-Psychosocial Factor Interactions Influence Diastolic Blood Pressure in European and African Ancestry Populations: Meta-Analysis of Four Cohort Studies. *International Journal of Environmental Research on Public Health.* 14(12). PMID: 29258278.
291. Canales BK, Smith JA, Weiner ID, Ware EB, Zhao W, **Kardia SLR**, Curhan GC, Turner ST, Perinpan M, Lieske JC (2017). Polymorphisms in Renal Ammonia Metabolism Genes Correlate With 24-Hour Urine pH. *Kidney International Reports* 2(6):1111-1121. PMID: 29270519; PMCID: PMC5733879.
292. Turcot V, Lu Y, Highland HM, Schurmann C, Justice AE, Fine RS, Bradfield JP, Esko T, Giri A, Graff M, Guo X, Hendricks AE, Karaderi T, Lempradl A, Locke AE, Mahajan A, Marouli E, Sivapalaratnam S, Young KL, Alfred T, Feitosa MF, Masca NGD, Manning AK, Medina-Gomez C, Mudgal P, Ng MCY, Reiner AP, Vedantam S, Willems SM, Winkler TW, Abecasis G, Aben KK, Alam DS, Alharthi SE, Allison M, Amouyel P, Asselbergs FW, Auer PL, Balkau B, Bang LE, Barroso I, Bastarache L, Benn M, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Brumat M, Burt AA, Butterworth AS, Campbell PT, Cappellani S, Carey DJ, Catamo E, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Corominas Galbany J, Cox AJ, Crosslin DS, Cuellar-Partida G, D'Eustachio A, Danesh J, Davies G, Bakker PIW, Groot MCH, Mutsert R, Deary IJ, Dedoussis G, Demerath EW, Heijer M, Hollander AI, Ruijter HM, Dennis JG, Denny JC, Di Angelantonio E, Drenos F, Du M, Dubé MP, Dunning AM, Easton DF, Edwards TL, Ellinghaus D, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Farooqi IS, Faul JD, Fauser S, Feng S, Ferrannini E, Ferrieres J, Florez JC, Ford I, Fornage M, Franco OH, Franke A, Franks PW, Friedrich N, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin

I, Gasparini P, Gibson J, Giedraitis V, Gjesing AP, Gordon-Larsen P, Gorski M, Grabe HJ, Grant SFA, Grarup N, Griffiths HL, Grove ML, Gudnason V, Gustafsson S, Haessler J, Hakonarson H, Hammerschlag AR, Hansen T, Harris KM, Harris TB, Hattersley AT, Have CT, Hayward C, He L, Heard-Costa NL, Heath AC, Heid IM, Helgeland Ø, Hernesniemi J, Hewitt AW, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Huang PL, Huffman JE, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jia Y, Johansson S, Jørgensen ME, Jørgensen T, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, **Kardia SLR**, Karpe F, Kathiresan S, Kee F, Kiemeneij LA, Kim E, Kitajima H, Komulainen P, Kooner JS, Kooperberg C, Korhonen T, Kovacs P, Kuivaniemi H, Kutalik Z, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA, Lamparter D, Lange EM, Lange LA, Langenberg C, Larson EB, Lee NR, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin KH, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Liu Y, Lo KS, Lophatananon A, Lotery AJ, Loukola A, Luan J, Lubitz SA, Lyytikäinen LP, Männistö S, Marenne G, Mazul AL, McCarthy MI, McKean-Cowdin R, Medland SE, Meidner K, Milani L, Mistry V, Mitchell P, Mohlke KL, Moilanen L, Moitry M, Montgomery GW, Mook-Kanamori DO, Moore C, Mori TA, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Narisu N, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Nyholt DR, O'Connel JR, O'Donoghue ML, Olde Loohuis LM, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CNA, Palmer ND, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Person TN, Peters A, Petersen ERB, Peyser PA, Pirie A, Polasek O, Polderman TJ, Puolijoki H, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Renström F, Rheinberger M, Ridker PM, Rioux JD, Rivas MA, Roberts DJ, Robertson NR, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sapkota Y, Sattar N, Schoen RE, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah SH, Sheu WH, Sim X, Slater AJ, Small KS, Smith AV, Southam L, Spector TD, Speliotes EK, Starr JM, Stefansson K, Steinhorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swift AJ, Tada H, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Uusitupa M, Laan SW, Duijn CM, Leeuwen N, van Setten J, Vanhala M, Varbo A, Varga TV, Varma R, Velez Edwards DR, Vermeulen SH, Veronesi G, Vestergaard H, Vitart V, Vogt TF, Völker U, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wang Y, Ware EB, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Witte DR, Wood AR, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhao W, Zhou W, Zondervan KT; CHD Exome+ Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; EPIC InterAct Consortium; INTERVAL Study; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators; Understanding Society Scientific Group, Rotter JI, Pospisilik JA, Rivadeneira F, Borecki IB, Deloukas P, Frayling TM, Lettre G, North KE, Lindgren CM, Hirschhorn JN, Loos RJF. Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. Nat Genet. 2018 Jan;50(1):26-41. doi: 10.1038/s41588-017-0011-x. Epub 2017 Dec 22.

*Erratum in: Nat Genet. 2018 Mar 16;: Erratum in: Nat Genet. 2018 Mar 16;: Erratum in: Nat Genet. 2019 Jul;51(7):1191-1192. PMID: 29273807; PMCID: PMC5945951.*

293. Platt J, Spector-Bagdady K, Platt T, De Vries R, Markel D, Hutchinson R, Manion F, Ziegler G, Rubin J, **Kardia S**. Ethical, legal, and social implications of learning health systems. *Learn Health Syst*. 2018 Jan 3;2(1):e10051. doi: 10.1002/lrh2.10051. PMID: 31245577; PMCID: PMC6508801.
294. Sung YJ, Winkler TW, de Las Fuentes L, Bentley AR, Brown MR, Kraja AT, Schwander K, Ntalla I, Guo X, Franceschini N, Lu Y, Cheng CY, Sim X, Vojinovic D, Marten J, Musani SK, Li C, Feitosa MF, Kilpeläinen TO, Richard MA, Noordam R, Aslibekyan S, Aschard H, Bartz TM, Dorajoo R, Liu Y, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Tayo BO, Warren HR, Zhao W, Zhou Y, Matoba N, Sofer T, Alver M, Amini M, Boissel M, Chai JF, Chen X, Divers J, Gandin I, Gao C, Giulianini F, Goel A, Harris SE, Hartwig FP, Horimoto ARVR, Hsu FC, Jackson AU, Kähönen M, Kasturiratne A, Kühnel B, Leander K, Lee WJ, Lin KH, 'an Luan J, McKenzie CA, Meian H, Nelson CP, Rauramaa R, Schupf N, Scott RA, Sheu WHH, Stančáková A, Takeuchi F, van der Most PJ, Varga TV, Wang H, Wang Y, Ware EB, Weiss S, Wen W, Yanek LR, Zhang W, Zhao JH, Afaq S, Alfred T, Amin N, Arking D, Aung T, Barr RG, Bielak LF, Boerwinkle E, Bottinger EP, Braund PS, Brody JA, Broeckel U, Cabrera CP, Cade B, Caizheng Y, Campbell A, Canouil M, Chakravarti A; CHARGE Neurology Working Group, Chauhan G, Christensen K, Cocca M; COGENT-Kidney Consortium, Collins FS, Connell JM, de Mutsert R, de Silva HJ, Debette S, Dörr M, Duan Q, Eaton CB, Ehret G, Evangelou E, Faul JD, Fisher VA, Forouhi NG, Franco OH, Friedlander Y, Gao H; GIANT Consortium, Gigante B, Graff M, Gu CC, Gu D, Gupta P, Hagaars SP, Harris TB, He J, Heikkinen S, Heng CK, Hirata M, Hofman A, Howard BV, Hunt S, Irvin MR, Jia Y, Joehanes R, Justice AE, Katsuya T, Kaufman J, Kerrison ND, Khor CC, Koh WP, Koistinen HA, Komulainen P, Kooperberg C, Krieger JE, Kubo M, Kuusisto J, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lewis CE, Li Y; Lifelines Cohort Study, Lim SH, Lin S, Liu CT, Liu J, Liu J, Liu K, Liu Y, Loh M, Lohman KK, Long J, Louie T, Mägi R, Mahajan A, Meitinger T, Metspalu A, Milani L, Momozawa Y, Morris AP, Mosley TH Jr, Munson P, Murray AD, Nalls MA, Nasri U, Norris JM, North K, Ogunniyi A, Padmanabhan S, Palmas WR, Palmer ND, Pankow JS, Pedersen NL, Peters A, Peyser PA, Polasek O, Raitakari OT, Renström F, Rice TK, Ridker PM, Robino A, Robinson JG, Rose LM, Rudan I, Sabanayagam C, Salako BL, Sandow K, Schmidt CO, Schreiner PJ, Scott WR, Seshadri S, Sever P, Sitolani CM, Smith JA, Snieder H, Starr JM, Strauch K, Tang H, Taylor KD, Teo YY, Tham YC, Uitterlinden AG, Waldenberger M, Wang L, Wang YX, Wei WB, Williams C, Wilson G, Wojczynski MK, Yao J, Yuan JM, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Chen YI, de Faire U, Deary IJ, Esko T, Farrall M, Forrester T, Franks PW, Freedman BI, Froguel P, Gasparini P, Gieger C, Horta BL, Hung YJ, Jonas JB, Kato N, Kooner JS, Laakso M, Lehtimäki T, Liang KW, Magnusson PKE, Newman AB, Oldehinkel AJ, Pereira AC, Redline S, Rettig R, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Wu T, Zheng W, Kamatani Y, Laurie CC, Bouchard C, Cooper RS, Evans MK, Gudnason V, **Kardia SLR**, Kritchevsky SB, Levy D, O'Connell JR, Psaty BM, van Dam RM, Sims M, Arnett

DK, Mook-Kanamori DO, Kelly TN, Fox ER, Hayward C, Fornage M, Rotimi CN, Province MA, van Duijn CM, Tai ES, Wong TY, Loos RJF, Reiner AP, Rotter JI, Zhu X, Bierut LJ, Gauderman WJ, Caulfield MJ, Elliott P, Rice K, Munroe PB, Morrison AC, Cupples LA, Rao DC, Chasman DI. A Large-Scale Multi-ancestry Genome-wide Study Accounting for Smoking Behavior Identifies Multiple Significant Loci for Blood Pressure. *Am J Hum Genet.* 2018 Mar 1;102(3):375-400. doi: 10.1016/j.ajhg.2018.01.015. Epub 2018 Feb 15. PMID: 29455858; PMCID: PMC5985266.

295. Wright ML, Ware EB, Smith JA, **Kardia SLR**, Taylor JY. Joint Influence of SNPs and DNA Methylation on Lipids in African Americans From Hypertensive Sibships. *Biol Res Nurs.* 2018 Mar;20(2):161-167. doi: 10.1177/1099800417752246. Epub 2018 Jan 16. PMID: 29338330; PMCID: PMC5811393.
296. Mahajan A, Wessel J, Willems SM, Zhao W, Robertson NR, Chu AY, Gan W, Kitajima H, Taliun D, Rayner NW, Guo X, Lu Y, Li M, Jensen RA, Hu Y, Huo S, Lohman KK, Zhang W, Cook JP, Prins BP, Flannick J, Grarup N, Trubetskoy VV, Kravic J, Kim YJ, Rybin DV, Yaghootkar H, Müller-Nurasyid M, Meidtner K, Li-Gao R, Varga TV, Marten J, Li J, Smith AV, An P, Ligthart S, Gustafsson S, Malerba G, Demirkan A, Tajes JF, Steinhorsdottir V, Wuttke M, Lecoeur C, Preuss M, Bielak LF, Graff M, Highland HM, Justice AE, Liu DJ, Marouli E, Peloso GM, Warren HR; ExomeBP Consortium; MAGIC Consortium; GIANT Consortium, Afqas S, Afzal S, Ahlvist E, Almgren P, Amin N, Bang LB, Bertoni AG, Bombieri C, Bork-Jensen J, Brandslund I, Brody JA, Burtt NP, Canouil M, Chen YI, Cho YS, Christensen C, Eastwood SV, Eckardt KU, Fischer K, Gambaro G, Giedraitis V, Grove ML, de Haan HG, Hackinger S, Hai Y, Han S, Tybjærg-Hansen A, Hivert MF, Isomaa B, Jäger S, Jørgensen ME, Jørgensen T, Käräjämäki A, Kim BJ, Kim SS, Koistinen HA, Kovacs P, Kriebel J, Kronenberg F, Läll K, Lange LA, Lee JJ, Lehne B, Li H, Lin KH, Linneberg A, Liu CT, Liu J, Loh M, Mägi R, Mamakou V, McKean-Cowdin R, Nadkarni G, Neville M, Nielsen SF, Ntalla I, Peyser PA, Rathmann W, Rice K, Rich SS, Rode L, Rolandsson O, Schönherr S, Selvin E, Small KS, Stančáková A, Surendran P, Taylor KD, Teslovich TM, Thorand B, Thorleifsson G, Tin A, Tönjes A, Varbo A, Witte DR, Wood AR, Yajnik P, Yao J, Yengo L, Young R, Amouyel P, Boeing H, Boerwinkle E, Bottinger EP, Chowdhury R, Collins FS, Dedoussis G, Dehghan A, Deloukas P, Ferrario MM, Ferrières J, Florez JC, Frossard P, Gudnason V, Harris TB, Heckbert SR, Howson JMM, Ingelsson M, Kathiresan S, Kee F, Kuusisto J, Langenberg C, Launer LJ, Lindgren CM, Männistö S, Meitinger T, Melander O, Mohlke KL, Moitry M, Morris AD, Murray AD, de Mutsert R, Orho-Melander M, Owen KR, Perola M, Peters A, Province MA, Rasheed A, Ridker PM, Rivadeneira F, Rosendaal FR, Rosengren AH, Salomaa V, Sheu WH, Sladek R, Smith BH, Strauch K, Uitterlinden AG, Varma R, Willer CJ, Blüher M, Butterworth AS, Chambers JC, Chasman DI, Danesh J, van Duijn C, Dupuis J, Franco OH, Franks PW, Froguel P, Grallert H, Groop L, Han BG, Hansen T, Hattersley AT, Hayward C, Ingelsson E, **Kardia SLR**, Karpe F, Kooner JS, Köttgen A, Kuulasmaa K, Laakso M, Lin X, Lind L, Liu Y, Loos RJF, Marchini J, Metspalu A, Mook-Kanamori D, Nordestgaard BG, Palmer CNA, Pankow JS, Pedersen O, Psaty BM, Rauramaa R, Sattar N, Schulze MB, Soranzo N, Spector TD, Stefansson K, Stumvoll M, Thorsteinsdottir U, Tuomi T, Tuomilehto J, Wareham NJ, Wilson JG, Zeggini E, Scott RA, Barroso I, Frayling TM, Goodarzi MO, Meigs JB, Boehnke M, Saleheen D, Morris AP, Rotter JI, McCarthy

MI. Refining the accuracy of validated target identification through coding variant fine-mapping in type 2 diabetes. *Nat Genet*. 2018 Apr;50(4):559-571. doi: 10.1038/s41588-018-0084-1. Epub 2018 Apr 9. PMID: 29632382; PMCID: PMC5898373.

297. Jones JK, Tave A, Pezzullo JC, **Kardia SLR**, Lippes J. Long-term risk of hysterectomy and ectopic pregnancy among Vietnamese women using the quinacrine hydrochloride pellet system vs. intrauterine devices or tubal ligation for contraception. *Eur J Contracept Reprod Health Care*. 2018 Apr;23(2):105-115. doi: 10.1080/13625187.2018.1449823. Epub 2018 Apr 23. PMID: 29683010.
298. Haljas K, Amare AT, Alizadeh BZ, Hsu YH, Mosley T, Newman A, Murabito J, Tiemeier H, Tanaka T, van Duijn C, Ding J, Llewellyn DJ, Bennett DA, Terracciano A, Launer L, Ladwig KH, Cornelis MC, Teumer A, Grabe H, **Kardia SLR**, Ware EB, Smith JA, Snieder H, Eriksson JG, Groop L, Räikkönen K, Lahti J. Bivariate Genome-Wide Association Study of Depressive Symptoms With Type 2 Diabetes and Quantitative Glycemic Traits. *Psychosom Med*. 2018 Apr;80(3):242-251. doi: 10.1097/PSY.0000000000000555. PMID: 29280852; PMCID: PMC6051528.
299. Platt JE, Jacobson PD, **Kardia SLR**. Public Trust in Health Information Sharing: A Measure of System Trust. *Health Serv Res*. 2018 Apr;53(2):824-845. doi: 10.1111/1475-6773.12654. Epub 2017 Jan 18. PMID: 28097657; PMCID: PMC5867170.
300. Novak NL, Lira N, O'Connor KE, Harlow SD, **Kardia SLR**, Stern AM. Disproportionate Sterilization of Latinos Under California's Eugenic Sterilization Program, 1920-1945. *Am J Public Health*. 2018 May;108(5):611-613. doi: 10.2105/AJPH.2018.304369. Epub 2018 Mar 22. PMID: 29565671; PMCID: PMC5888070.
301. Turcot V, Lu Y, Highland HM, Schurmann C, Justice AE, Fine RS, Bradfield JP, Esko T, Giri A, Graff M, Guo X, Hendricks AE, Karaderi T, Lempradl A, Locke AE, Mahajan A, Marouli E, Sivapalaratnam S, Young KL, Alfred T, Feitosa MF, Masca NGD, Manning AK, Medina-Gomez C, Mudgal P, Ng MCY, Reiner AP, Vedantam S, Willems SM, Winkler TW, Abecasis G, Aben KK, Alam DS, Alharthi SE, Allison M, Amouyel P, Asselbergs FW, Auer PL, Balkau B, Bang LE, Barroso I, Bastarache L, Benn M, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Brumat M, Burt AA, Butterworth AS, Campbell PT, Cappellani S, Carey DJ, Catamo E, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Corominas Galbany J, Cox AJ, Crosslin DS, Cuellar-Partida G, D'Eustachio A, Danesh J, Davies G, Bakker PIW, Groot MCH, Mutsert R, Deary IJ, Dedoussis G, Demerath EW, Heijer M, Hollander AI, Ruijter HM, Dennis JG, Denny JC, Angelantonio E, Drenos F, Du M, Dubé MP, Dunning AM, Easton DF, Edwards TL, Ellinghaus D, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Farooqi IS, Faul JD, Fauser S, Feng S, Ferrannini E, Ferrieres J, Florez JC, Ford I, Fornage M, Franco OH, Franke A, Franks PW, Friedrich N, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Gibson J, Giedraitis V, Gjesing AP, Gordon-Larsen P, Gorski M, Grabe HJ, Grant SFA, Grarup N, Griffiths HL, Grove ML, Gudnason V, Gustafsson S, Haessler J,

Hakonarson H, Hammerschlag AR, Hansen T, Harris KM, Harris TB, Hattersley AT, Have CT, Hayward C, He L, Heard-Costa NL, Heath AC, Heid IM, Helgeland Ø, Hernesniemi J, Hewitt AW, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Huang PL, Huffman JE, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jia Y, Johansson S, Jørgensen ME, Jørgensen T, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, **Kardia SLR**, Karpe F, Kathiresan S, Kee F, Kiemeneij LA, Kim E, Kitajima H, Komulainen P, Kooner JS, Kooperberg C, Korhonen T, Kovacs P, Kuivaniemi H, Kutalik Z, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA, Lamparter D, Lange EM, Lange LA, Langenberg C, Larson EB, Lee NR, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin KH, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Liu Y, Lo KS, Lophatananon A, Lotery AJ, Loukola A, Luan J, Lubitz SA, Lyttikäinen LP, Männistö S, Marenne G, Mazul AL, McCarthy MI, McKean-Cowdin R, Medland SE, Meidtner K, Milani L, Mistry V, Mitchell P, Mohlke KL, Moilanen L, Moitry M, Montgomery GW, Mook-Kanamori DO, Moore C, Mori TA, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Narisu N, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Nyholt DR, O'Connel JR, O'Donoghue ML, Olde Loohuis LM, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CNA, Palmer ND, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Person TN, Peters A, Petersen ERB, Peyser PA, Pirie A, Polasek O, Polderman TJ, Puolijoki H, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Renström F, Rheinberger M, Ridker PM, Rioux JD, Rivas MA, Roberts DJ, Robertson NR, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sapkota Y, Sattar N, Schoen RE, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah SH, Sheu WH, Sim X, Slater AJ, Small KS, Smith AV, Southam L, Spector TD, Speliotes EK, Starr JM, Stefansson K, Steinthorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swift AJ, Tada H, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Uusitupa M, Laan SW, Duijn CM, Leeuwen N, van Setten J, Vanhala M, Varbo A, Varga TV, Varma R, Velez Edwards DR, Vermeulen SH, Veronesi G, Vestergaard H, Vitart V, Vogt TF, Völker U, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wang Y, Ware EB, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Witte DR, Wood AR, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhou W, Zondervan KT, Rotter JI, Pospisilik JA, Rivadeneira F, Borecki IB, Deloukas P, Frayling TM, Lettre G, North KE, Lindgren CM, Hirschhorn JN, Loos RJF; CHD Exome+ Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; EPIC InterAct Consortium; INTERVAL Study; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators; Understanding Society Scientific Group. Publisher Correction: Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. *Nat Genet.* 2018 May;50(5):765-766. doi: 10.1038/s41588-018-0050-y. Erratum for: *Nat Genet.* 2018 Jan;50(1):26-41. PMID: 29549329.

302. Turcot V, Lu Y, Highland HM, Schurmann C, Justice AE, Fine RS, Bradfield JP, Esko T, Giri A, Graff M, Guo X, Hendricks AE, Karaderi T, Lempradl A, Locke AE, Mahajan A, Marouli E, Sivapalaratnam S, Young KL, Alfred T, Feitosa MF, Masca NGD, Manning AK, Medina-Gomez C, Mudgal P, Ng MCY, Reiner AP, Vedantam S, Willems SM, Winkler TW, Abecasis G, Aben KK, Alam DS, Alharthi SE, Allison M, Amouyel P, Asselbergs FW, Auer PL, Balkau B, Bang LE, Barroso I, Bastarache L, Benn M, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Brumat M, Burt AA, Butterworth AS, Campbell PT, Cappellani S, Carey DJ, Catamo E, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Corominas Galbany J, Cox AJ, Crosslin DS, Cuellar-Partida G, D'Eustacchio A, Danesh J, Davies G, Bakker PIW, Groot MCH, Mutsert R, Deary IJ, Dedoussis G, Demerath EW, Heijer M, Hollander AI, Ruijter HM, Dennis JG, Denny JC, Di Angelantonio E, Drenos F, Du M, Dubé MP, Dunning AM, Easton DF, Edwards TL, Ellinghaus D, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Farooqi IS, Faul JD, Fauser S, Feng S, Ferrannini E, Ferrieres J, Florez JC, Ford I, Fornage M, Franco OH, Franke A, Franks PW, Friedrich N, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Gibson J, Giedraitis V, Gjesing AP, Gordon-Larsen P, Gorski M, Grabe HJ, Grant SFA, Grarup N, Griffiths HL, Grove ML, Gudnason V, Gustafsson S, Haessler J, Hakonarson H, Hammerschlag AR, Hansen T, Harris KM, Harris TB, Hattersley AT, Have CT, Hayward C, He L, Heard-Costa NL, Heath AC, Heid IM, Helgeland Ø, Hernesniemi J, Hewitt AW, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Huang PL, Huffman JE, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jia Y, Johansson S, Jørgensen ME, Jørgensen T, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, **Kardia SLR**, Karpe F, Kathiresan S, Kee F, Kiemeney LA, Kim E, Kitajima H, Komulainen P, Kooner JS, Kooperberg C, Korhonen T, Kovacs P, Kuivaniemi H, Kutilik Z, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA, Lamparter D, Lange EM, Lange LA, Langenberg C, Larson EB, Lee NR, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin KH, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Liu Y, Lo KS, Lophatananon A, Lotery AJ, Loukola A, Luan J, Lubitz SA, Lyttikäinen LP, Männistö S, Marenne G, Mazul AL, McCarthy MI, McKean-Cowdin R, Medland SE, Meidtner K, Milani L, Mistry V, Mitchell P, Mohlke KL, Moilanen L, Moitry M, Montgomery GW, Mook-Kanamori DO, Moore C, Mori TA, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Narisu N, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Nyholt DR, O'Connell JR, O'Donoghue ML, Olde Loohuis LM, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CNA, Palmer ND, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Person TN, Peters A, Petersen ERB, Peyser PA, Pirie A, Polasek O, Polderman TJ, Puolijoki H, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Renström F, Rheinberger M, Ridker PM, Rioux JD, Rivas MA, Roberts DJ, Robertson NR, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sapkota Y, Sattar N, Schoen RE, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah SH, Sheu WH, Sim X, Slater AJ, Small KS, Smith AV, Southam L, Spector TD, Speliotes EK, Starr JM, Stefansson K, Steinhorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swift AJ, Tada H, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ,

Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Uusitupa M, Laan SW, Duijn CM, Leeuwen N, van Setten J, Vanhala M, Varbo A, Varga TV, Varma R, Velez Edwards DR, Vermeulen SH, Veronesi G, Vestergaard H, Vitart V, Vogt TF, Völker U, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wang Y, Ware EB, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Witte DR, Wood AR, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhao W, Zhou W, Zondervan KT, Rotter JI, Pospisilik JA, Rivadeneira F, Borecki IB, Deloukas P, Frayling TM, Lettre G, North KE, Lindgren CM, Hirschhorn JN, Loos RJF; CHD Exome+ Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; EPIC InterAct Consortium; INTERVAL Study; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators; Understanding Society Scientific Group. Publisher Correction: Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. *Nat Genet.* 2018 May;50(5):766-767. doi: 10.1038/s41588-018-0082-3. Erratum for: *Nat Genet.* 2018 Jan;50(1):26-41. PMID: 29549330.

303. Turcot V, Lu Y, Highland HM, Schurmann C, Justice AE, Fine RS, Bradfield JP, Esko T, Giri A, Graff M, Guo X, Hendricks AE, Karaderi T, Lempradl A, Locke AE, Mahajan A, Marouli E, Sivapalaratnam S, Young KL, Alfred T, Feitosa MF, Masca NGD, Manning AK, Medina-Gomez C, Mudgal P, Ng MCY, Reiner AP, Vedantam S, Willems SM, Winkler TW, Abecasis G, Aben KK, Alam DS, Alharthi SE, Allison M, Amouyel P, Asselbergs FW, Auer PL, Balkau B, Bang LE, Barroso I, Bastarache L, Benn M, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Brumat M, Burt AA, Butterworth AS, Campbell PT, Cappellani S, Carey DJ, Catamo E, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Corominas Galbany J, Cox AJ, Crosslin DS, Cuellar-Partida G, D'Eustachio A, Danesh J, Davies G, Bakker PIW, Groot MCH, Mutsert R, Deary IJ, Dedoussis G, Demerath EW, Heijer M, Hollander AI, Ruijter HM, Dennis JG, Denny JC, Angelantonio E, Drenos F, Du M, Dubé MP, Dunning AM, Easton DF, Edwards TL, Ellinghaus D, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Farooqi IS, Faul JD, Fauser S, Feng S, Ferrannini E, Ferrieres J, Florez JC, Ford I, Fornage M, Franco OH, Franke A, Franks PW, Friedrich N, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Gibson J, Giedraitis V, Gjesing AP, Gordon-Larsen P, Gorski M, Grabe HJ, Grant SFA, Grarup N, Griffiths HL, Grove ML, Gudnason V, Gustafsson S, Haessler J, Hakonarson H, Hammerschlag AR, Hansen T, Harris KM, Harris TB, Hattersley AT, Have CT, Hayward C, He L, Heard-Costa NL, Heath AC, Heid IM, Helgeland Ø, Hernesniemi J, Hewitt AW, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Huang PL, Huffman JE, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jia Y, Johansson S, Jørgensen ME, Jørgensen T, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, **Kardia SLR**, Karpe F, Kathiresan S, Kee F, Kiemeney LA, Kim E, Kitajima H, Komulainen P, Kooner JS, Kooperberg C, Korhonen T, Kovacs P, Kuivaniemi H, Kutalik Z, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA,

Lamparter D, Lange EM, Lange LA, Langenberg C, Larson EB, Lee NR, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin KH, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Liu Y, Lo KS, Lophatananon A, Lotery AJ, Loukola A, Luan J, Lubitz SA, Lytykäinen LP, Männistö S, Marenne G, Mazul AL, McCarthy MI, McKean-Cowdin R, Medland SE, Meidtner K, Milani L, Mistry V, Mitchell P, Mohlke KL, Moilanen L, Moitry M, Montgomery GW, Mook-Kanamori DO, Moore C, Mori TA, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Narisu N, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Nyholt DR, O'Connel JR, O'Donoghue ML, Olde Loohuis LM, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CNA, Palmer ND, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Person TN, Peters A, Petersen ERB, Peyser PA, Pirie A, Polasek O, Polderman TJ, Puolijoki H, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Renström F, Rheinberger M, Ridker PM, Rioux JD, Rivas MA, Roberts DJ, Robertson NR, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sapkota Y, Sattar N, Schoen RE, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah SH, Sheu WH, Sim X, Slater AJ, Small KS, Smith AV, Southam L, Spector TD, Speliotes EK, Starr JM, Stefansson K, Steinthorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swift AJ, Tada H, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Uusitupa M, Laan SW, Duijn CM, Leeuwen N, van Setten J, Vanhala M, Varbo A, Varga TV, Varma R, Velez Edwards DR, Vermeulen SH, Veronesi G, Vestergaard H, Vitart V, Vogt TF, Völker U, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wang Y, Ware EB, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Witte DR, Wood AR, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhou W, Zondervan KT; CHD Exome+ Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; EPIC InterAct Consortium; INTERVAL Study; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators; Understanding Society Scientific Group, Rotter JI, Pospisilik JA, Rivadeneira F, Borecki IB, Deloukas P, Frayling TM, Lettre G, North KE, Lindgren CM, Hirschhorn JN, Loos RJF (2018). Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. *Nature Genetics*. 50(1):26-41. PMID: 29273807.

304. Liang J, Le TH, Velez Edwards DR, Tayo BO, Gaulton KJ, Smith JA, Lu Y, Jensen RA, Chen G, Yanek LR, Schwander K, Tajuddin SM, Sofer T, Kim W, Kayima J, McKenzie CA, Fox E, Nalls MA, Young JH, Sun YV, Lane JM, Cechova S, Zhou J, Tang H, Fornage M, Musani SK, Wang H, Lee J, Adeyemo A, Dreisbach AW, Forrester T, Chu PL, Cappola A, Evans MK, Morrison AC, Martin LW, Wiggins KL, Hui Q, Zhao W, Jackson RD, Ware EB, Faul JD, Reiner AP, Bray M, Denny JC, Mosley TH, Palmas W, Guo X, Papanicolaou GJ, Penman AD, Polak JF, Rice K, Taylor KD, Boerwinkle E, Bottinger EP, Liu K, Risch N, Hunt SC, Kooperberg C, Zonderman AB, Laurie CC, Becker DM, Cai J, Loos RJF, Psaty BM, Weir DR, **Kardia SLR**, Arnett DK, Won S, Edwards TL, Redline S, Cooper RS, Rao DC, Rotter JI, Rotimi C, Levy D, Chakravarti A, Zhu X, Franceschini N.

Correction: Single-trait and multi-trait genome-wide association analyses identify novel loci for blood pressure in African-ancestry populations. *PLoS Genet.* 2018 May 11;14(5):e1007345. doi: 10.1371/journal.pgen.1007345. Erratum for: *PLoS Genet.* 2017 May 12;13(5):e1006728. PMID: 29750786; PMCID: PMC5947884.

305. Davies G, Lam M, Harris SE, Trampush JW, Luciano M, Hill WD, Hagenaars SP, Ritchie SJ, Marioni RE, Fawns-Ritchie C, Liewald DCM, Okely JA, Ahola-Olli AV, Barnes CLK, Bertram L, Bis JC, Burdick KE, Christoforou A, DeRosse P, Djurovic S, Espeseth T, Giakoumaki S, Giddaluru S, Gustavson DE, Hayward C, Hofer E, Ikram MA, Karlsson R, Knowles E, Lahti J, Leber M, Li S, Mather KA, Melle I, Morris D, Oldmeadow C, Palvinainen T, Payton A, Pazoki R, Petrovic K, Reynolds CA, Sargurupremraj M, Scholz M, Smith JA, Smith AV, Terzikhan N, Thalamuthu A, Trompet S, van der Lee SJ, Ware EB, Windham BG, Wright MJ, Yang J, Yu J, Ames D, Amin N, Amouyel P, Andreassen OA, Armstrong NJ, Assareh AA, Attia JR, Attix D, Avramopoulos D, Bennett DA, Böhmer AC, Boyle PA, Brodaty H, Campbell H, Cannon TD, Cirulli ET, Congdon E, Conley ED, Corley J, Cox SR, Dale AM, Dehghan A, Dick D, Dickinson D, Eriksson JG, Evangelou E, Faul JD, Ford I, Freimer NA, Gao H, Giegling I, Gillespie NA, Gordon SD, Gottesman RF, Griswold ME, Gudnason V, Harris TB, Hartmann AM, Hatzimanolis A, Heiss G, Holliday EG, Joshi PK, Kähönen M, **Kardia SLR**, Karlsson I, Kleineidam L, Knopman DS, Kochan NA, Konte B, Kwok JB, Le Hellard S, Lee T, Lehtimäki T, Li SC, Lill CM, Liu T, Koini M, London E, Longstreth WT Jr, Lopez OL, Loukola A, Luck T, Lundervold AJ, Lundquist A, Lyytikäinen LP, Martin NG, Montgomery GW, Murray AD, Need AC, Noordam R, Nyberg L, Ollier W, Papenberg G, Pattie A, Polasek O, Poldrack RA, Psaty BM, Reppermund S, Riedel-Heller SG, Rose RJ, Rotter JI, Roussos P, Rovio SP, Saba Y, Sabb FW, Sachdev PS, Satizabal CL, Schmid M, Scott RJ, Scult MA, Simino J, Slagboom PE, Smyrnis N, Soumaré A, Stefanis NC, Stott DJ, Straub RE, Sundet K, Taylor AM, Taylor KD, Tzoulaki I, Tzourio C, Uitterlinden A, Vitart V, Voineskos AN, Kaprio J, Wagner M, Wagner H, Weinhold L, Wen KH, Widen E, Yang Q, Zhao W, Adams HHH, Arking DE, Bilder RM, Bitsios P, Boerwinkle E, Chiba-Falek O, Corvin A, De Jager PL, Debette S, Donohoe G, Elliott P, Fitzpatrick AL, Gill M, Glahn DC, Hägg S, Hansell NK, Hariri AR, Ikram MK, Jukema JW, Vuoksimaa E, Keller MC, Kremen WS, Launer L, Lindenberger U, Palotie A, Pedersen NL, Pendleton N, Porteous DJ, Räikkönen K, Raitakari OT, Ramirez A, Reinvang I, Rudan I, Dan Rujescu, Schmidt R, Schmidt H, Schofield PW, Schofield PR, Starr JM, Steen VM, Trollor JN, Turner ST, Van Duijn CM, Villringer A, Weinberger DR, Weir DR, Wilson JF, Malhotra A, McIntosh AM, Gale CR, Seshadri S, Mosley TH Jr, Bressler J, Lencz T, Deary IJ. Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function. *Nat Commun.* 2018 May 29;9(1):2098. doi: 10.1038/s41467-018-04362-x. Erratum in: *Nat Commun.* 2019 May 1;10(1):2068. PMID: 29844566; PMCID: PMC5974083.
306. Feitosa MF, Kraja AT, Chasman DI, Sung YJ, Winkler TW, Ntalla I, Guo X, Franceschini N, Cheng CY, Sim X, Vojinovic D, Marten J, Musani SK, Li C, Bentley AR, Brown MR, Schwander K, Richard MA, Noordam R, Aschard H, Bartz TM, Bielak LF, Dorajoo R, Fisher V, Hartwig FP, Horimoto ARVR, Lohman KK, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Wojczynski MK, Alver M, Boissel M, Cai Q, Campbell A, Chai JF, Chen X, Divers J, Gao C, Goel A, Hagemeijer Y, Harris SE, He M, Hsu FC, Jackson AU,

Kähönen M, Kasturiratne A, Komulainen P, Kühnel B, Laguzzi F, Luan J, Matoba N, Nolte IM, Padmanabhan S, Riaz M, Rueedi R, Robino A, Said MA, Scott RA, Sofer T, Stančáková A, Takeuchi F, Tayo BO, van der Most PJ, Varga TV, Vitart V, Wang Y, Ware EB, Warren HR, Weiss S, Wen W, Yanek LR, Zhang W, Zhao JH, Afaq S, Amin N, Amini M, Arking DE, Aung T, Boerwinkle E, Borecki I, Broeckel U, Brown M, Brumat M, Burke GL, Canouil M, Chakravarti A, Charumathi S, Ida Chen YD, Connell JM, Correa A, de Las Fuentes L, de Mutsert R, de Silva HJ, Deng X, Ding J, Duan Q, Eaton CB, Ehret G, Eppinga RN, Evangelou E, Faul JD, Felix SB, Forouhi NG, Forrester T, Franco OH, Friedlander Y, Gandin I, Gao H, Ghanbari M, Gigante B, Gu CC, Gu D, Hagenaars SP, Hallmans G, Harris TB, He J, Heikkinen S, Heng CK, Hirata M, Howard BV, Ikram MA; InterAct Consortium, John U, Katsuya T, Khor CC, Kilpeläinen TO, Koh WP, Krieger JE, Kritchevsky SB, Kubo M, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lewis CE, Li Y, Lin S, Liu J, Liu J, Loh M, Louie T, Mägi R, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mohlke KL, Momozawa Y, Nalls MA, Nelson CP, Sotoodehnia N, Norris JM, O'Connell JR, Palmer ND, Perls T, Pedersen NL, Peters A, Peyser PA, Poulter N, Raffel LJ, Raitakari OT, Roll K, Rose LM, Rosendaal FR, Rotter JI, Schmidt CO, Schreiner PJ, Schupf N, Scott WR, Sever PS, Shi Y, Sidney S, Sims M, Sitlani CM, Smith JA, Snieder H, Starr JM, Strauch K, Stringham HM, Tan NYQ, Tang H, Taylor KD, Teo YY, Tham YC, Turner ST, Uitterlinden AG, Vollenweider P, Waldenberger M, Wang L, Wang YX, Wei WB, Williams C, Yao J, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Deary IJ, Esko T, Farrall M, Franks PW, Freedman BI, Froguel P, Gasparini P, Gieger C, Jonas JB, Kamatani Y, Kato N, Kooner JS, Kutalik Z, Laakso M, Laurie CC, Leander K, Lehtimäki T, Study LC, Magnusson PKE, Oldehinkel AJ, Penninx BWJH, Polasek O, Porteous DJ, Rauramaa R, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Wu T, Zheng W, Bouchard C, Christensen K, Evans MK, Gudnason V, Horta BL, **Kardia SLR**, Liu Y, Pereira AC, Psaty BM, Ridker PM, van Dam RM, Gauderman WJ, Zhu X, Mook-Kanamori DO, Fornage M, Rotimi CN, Cupples LA, Kelly TN, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Kooperberg C, Palmas W, Rice K, Morrison AC, Elliott P, Caulfield MJ, Munroe PB, Rao DC, Province MA, Levy D. Novel genetic associations for blood pressure identified via gene-alcohol interaction in up to 570K individuals across multiple ancestries. *PLoS One*. 2018 Jun 18;13(6):e0198166. doi: 10.1371/journal.pone.0198166. PMID: 29912962; PMCID: PMC6005576.

307. Rudra P, Broadway KA, Ware EB, Jhun MA, Bielak LF, Zhao W, Smith JA, Peyser PA, **Kardia SLR**, Epstein MP, Ghosh D. Testing cross-phenotype effects of rare variants in longitudinal studies of complex traits. *Genet Epidemiol*. 2018 Jun;42(4):320-332. doi: 10.1002/gepi.22121. Epub 2018 Mar 30. PMID: 29601641; PMCID: PMC5980726.
308. Kattah AG, Suarez MLG, Milic N, Kantarci K, Zeydan B, Mosley T, Turner ST, Ware EB, **Kardia SLR**, Garovic VD. Hormone therapy and urine protein excretion: a multiracial cohort study, systematic review, and meta-analysis. *Menopause*. 2018 Jun;25(6):625-634. doi: 10.1097/GME.0000000000001062. PMID: 29381664; PMCID: PMC5970005.

309. Lee JJ, Wedow R, Okbay A, Kong E, Maghzian O, Zacher M, Nguyen-Viet TA, Bowers P, Sidorenko J, Karlsson Linnér R, Fontana MA, Kundu T, Lee C, Li H, Li R, Royer R, Timshel PN, Walters RK, Willoughby EA, Yengo L; 23andMe Research Team; COGENT (Cognitive Genomics Consortium); Social Science Genetic Association Consortium, Alver M, Bao Y, Clark DW, Day FR, Furlotte NA, Joshi PK, Kemper KE, Kleinman A, Langenberg C, Mägi R, Trampush JW, Verma SS, Wu Y, Lam M, Zhao JH, Zheng Z, Boardman JD, Campbell H, Freese J, Harris KM, Hayward C, Herd P, Kumari M, Lencz T, Luan J, Malhotra AK, Metspalu A, Milani L, Ong KK, Perry JRB, Porteous DJ, Ritchie MD, Smart MC, Smith BH, Tung JY, Wareham NJ, Wilson JF, Beauchamp JP, Conley DC, Esko T, Lehrer SF, Magnusson PKE, Oskarsson S, Pers TH, Robinson MR, Thom K, Watson C, Chabris CF, Meyer MN, Laibson DI, Yang J, Johannesson M, Koellinger PD, Turley P, Visscher PM, Benjamin DJ, Cesarini D. Gene discovery and polygenic prediction from a genome-wide association study of educational attainment in 1.1 million individuals. *Nat Genet.* 2018 Jul 23;50(8):1112-1121. doi: 10.1038/s41588-018-0147-3. PMID: 30038396; PMCID: PMC6393768.
310. Zekavat SM, Ruotsalainen S, Handsaker RE, Alver M, Bloom J, Poterba T, Seed C, Ernst J, Chaffin M, Engreitz J, Peloso GM, Manichaikul A, Yang C, Ryan KA, Fu M, Johnson WC, Tsai M, Budoff M, Vasan RS, Cupples LA, Rotter JI, Rich SS, Post W, Mitchell BD, Correa A, Metspalu A, Wilson JG, Salomaa V, Kellis M, Daly MJ, Neale BM, McCarroll S, Surakka I, Esko T, Ganna A, Ripatti S, Kathiresan S, Natarajan P; **NHLBI TOPMed Lipids Working Group**. Deep coverage whole genome sequences and plasma lipoprotein(a) in individuals of European and African ancestries. *Nat Commun.* 2018 Jul 4;9(1):2606. doi: 10.1038/s41467-018-04668-w. *Erratum in:* *Nat Commun.* 2018 Aug 23;9(1):3493. *Erratum in:* *Nat Commun.* 2020 Apr 1;11(1):1715. PMID: 29973585; PMCID: PMC6031652.
311. Modell SM, Citrin T, **Kardia SLR**. Laying Anchor: Inserting Precision Health into a Public Health Genetics Policy Course. *Healthcare (Basel)*. 2018 Aug 3;6(3):93. doi: 10.3390/healthcare6030093. PMID: 30081448; PMCID: PMC6163426.
312. Natarajan P, Peloso GM, Zekavat SM, Montasser M, Ganna A, Chaffin M, Khera AV, Zhou W, Bloom JM, Engreitz JM, Ernst J, O'Connell JR, Ruotsalainen SE, Alver M, Manichaikul A, Johnson WC, Perry JA, Poterba T, Seed C, Surakka IL, Esko T, Ripatti S, Salomaa V, Correa A, Vasan RS, Kellis M, Neale BM, Lander ES, Abecasis G, Mitchell B, Rich SS, Wilson JG, Cupples LA, Rotter JI, Willer CJ, Kathiresan S; **NHLBI TOPMed Lipids Working Group**. Deep-coverage whole genome sequences and blood lipids among 16,324 individuals. *Nat Commun.* 2018 Aug 23;9(1):3391. doi: 10.1038/s41467-018-05747-8. PMID: 30140000; PMCID: PMC6107638.
313. Zekavat SM, Ruotsalainen S, Handsaker RE, Alver M, Bloom J, Poterba T, Seed C, Ernst J, Chaffin M, Engreitz J, Peloso GM, Manichaikul A, Yang C, Ryan KA, Fu M, Johnson WC, Tsai M, Budoff M, Vasan RS, Cupples LA, Rotter JI, Rich SS, Post W, Mitchell BD, Correa A, Metspalu A, Wilson JG, Salomaa V, Kellis M, Daly MJ, Neale BM, McCarroll S, Surakka I, Esko T, Ganna A, Ripatti S, Kathiresan S, Natarajan P; **NHLBI TOPMed Lipids Working Group**. Publisher Correction: Deep coverage whole genome sequences

and plasma lipoprotein(a) in individuals of European and African ancestries. *Nat Commun.* 2018 Aug 23;9(1):3493. doi: 10.1038/s41467-018-05975-y. Erratum for: *Nat Commun.* 2018 Jul 4;9(1):2606. PMID: 30140049; PMCID: PMC6107495.

314. Jian X, Satizabal CL, Smith AV, Wittfeld K, Bis JC, Smith JA, Hsu FC, Nho K, Hofer E, Hagaars SP, Nyquist PA, Mishra A, Adams HHH, Li S, Teumer A, Zhao W, Freedman BI, Saba Y, Yanek LR, Chauhan G, van Buchem MA, Cushman M, Royle NA, Bryan RN, Niessen WJ, Windham BG, DeStefano AL, Habes M, Heckbert SR, Palmer ND, Lewis CE, Eiriksdottir G, Maillard P, Mathias RA, Homuth G, Valdés-Hernández MDC, Divers J, Beiser AS, Langner S, Rice KM, Bastin ME, Yang Q, Maldjian JA, Starr JM, Sidney S, Risacher SL, Uitterlinden AG, Gudnason VG, Nauck M, Rotter JI, Schreiner PJ, Boerwinkle E, van Duijn CM, Mazoyer B, von Sarnowski B, Gottesman RF, Levy D, Sigurdsson S, Vernooij MW, Turner ST, Schmidt R, Wardlaw JM, Psaty BM, Mosley TH, DeCarli CS, Saykin AJ, Bowden DW, Becker DM, Deary IJ, Schmidt H, Kardia SLR, Ikram MA, Debette S, Grabe HJ, Longstreth WT Jr, Seshadri S, Launer LJ, Fornage M; neuroCHARGE Working Group. Exome Chip Analysis Identifies Low-Frequency and Rare Variants in MRPL38 for White Matter Hyperintensities on Brain Magnetic Resonance Imaging. *Stroke.* 2018 Aug;49(8):1812-1819. doi: 10.1161/STROKEAHA.118.020689. PMID: 30002152; PMCID: PMC6202149.
315. Spector-Bagdady K, De Vries RG, Gornick MG, Shuman AG, **Kardia S**, Platt J. Encouraging Participation And Transparency In Biobank Research. *Health Aff (Millwood)*. 2018 Aug;37(8):1313-1320. doi: 10.1377/hlthaff.2018.0159. PMID: 30080467; PMCID: PMC6143362.
316. Ward-Caviness CK, Huffman JE, Everett K, Germain M, van Dongen J, Hill WD, Jhun MA, Brody JA, Ghanbari M, Du L, Roetker NS, de Vries PS, Waldenberger M, Gieger C, Wolf P, Prokisch H, Koenig W, O'Donnell CJ, Levy D, Liu C, Truong V, Wells PS, Trégouët DA, Tang W, Morrison AC, Boerwinkle E, Wiggins KL, McKnight B, Guo X, Psaty BM, Sotoodehnia N, Boomsma DI, Willemse G, Ligthart L, Deary IJ, Zhao W, Ware EB, **Kardia SLR**, Van Meurs JBJ, Uitterlinden AG, Franco OH, Eriksson P, Franco-Cereceda A, Pankow JS, Johnson AD, Gagnon F, Morange PE, de Geus EJC, Starr JM, Smith JA, Dehghan A, Björck HM, Smith NL, Peters A. DNA methylation age is associated with an altered hemostatic profile in a multiethnic meta-analysis. *Blood*. 2018 Oct 25;132(17):1842-1850. doi: 10.1182/blood-2018-02-831347. Epub 2018 Jul 24. Erratum in: *Blood*. 2019 Jul 11;134(2):218. PMID: 30042098; PMCID: PMC6202911.
317. Marioni RE, McRae AF, Bressler J, Colicino E, Hannon E, Li S, Prada D, Smith JA, Trevisi L, Tsai PC, Vojinovic D, Simino J, Levy D, Liu C, Mendelson M, Satizabal CL, Yang Q, Jhun MA, **Kardia SLR**, Zhao W, Bandinelli S, Ferrucci L, Hernandez DG, Singleton AB, Harris SE, Starr JM, Kiel DP, McLean RR, Just AC, Schwartz J, Spiro A 3rd, Vokonas P, Amin N, Ikram MA, Uitterlinden AG, van Meurs JBJ, Spector TD, Steves C, Baccarelli AA, Bell JT, van Duijn CM, Fornage M, Hsu YH, Mill J, Mosley TH, Seshadri S, Deary IJ. Meta-analysis of epigenome-wide association studies of cognitive abilities. *Mol Psychiatry*. 2018 Nov;23(11):2133-2144. doi: 10.1038/s41380-017-0008-y. Epub 2018 Jan 8. PMID: 29311653; PMCID: PMC6035894.

318. Mahajan A, Taliun D, Thurner M, Robertson NR, Torres JM, Rayner NW, Payne AJ, Steinthorsdottir V, Scott RA, Grarup N, Cook JP, Schmidt EM, Wuttke M, Sarnowski C, Mägi R, Nano J, Gieger C, Trompet S, Lecoeur C, Preuss MH, Prins BP, Guo X, Bielak LF, Below JE, Bowden DW, Chambers JC, Kim YJ, Ng MCY, Petty LE, Sim X, Zhang W, Bennett AJ, Bork-Jensen J, Brummett CM, Canouil M, Ec Kardt KU, Fischer K, **Kardia SLR**, Kronenberg F, Läll K, Liu CT, Locke AE, Luan J, Ntalla I, Nylander V, Schönherr S, Schurmann C, Yengo L, Bottinger EP, Brandslund I, Christensen C, Dedoussis G, Florez JC, Ford I, Franco OH, Frayling TM, Giedraitis V, Hackinger S, Hattersley AT, Herder C, Ikram MA, Ingelsson M, Jørgensen ME, Jørgensen T, Kriebel J, Kuusisto J, Ligthart S, Lindgren CM, Linneberg A, Lyssenko V, Mamakou V, Meitinger T, Mohlke KL, Morris AD, Nadkarni G, Pankow JS, Peters A, Sattar N, Stančáková A, Strauch K, Taylor KD, Thorand B, Thorleifsson G, Thorsteinsdottir U, Tuomilehto J, Witte DR, Dupuis J, Peyser PA, Zeggini E, Loos RJF, Froguel P, Ingelsson E, Lind L, Groop L, Laakso M, Collins FS, Jukema JW, Palmer CNA, Grallert H, Metspalu A, Dehghan A, Köttgen A, Abecasis GR, Meigs JB, Rotter JI, Marchini J, Pedersen O, Hansen T, Langenberg C, Wareham NJ, Stefansson K, Gloyn AL, Morris AP, Boehnke M, McCarthy MI. Fine-mapping type 2 diabetes loci to single-variant resolution using high-density imputation and islet-specific epigenome maps. *Nat Genet.* 2018 Nov;50(11):1505-1513. doi: 10.1038/s41588-018-0241-6. Epub 2018 Oct 8. PMID: 30297969; PMCID: PMC6287706
319. Haljas K, Amare AT, Alizadeh BZ, Hsu YH, Mosley T, Newman A, Murabito J, Tiemeier H, Tanaka T, van Duijn C, Ding J, Llewellyn DJ, Bennett DA, Terracciano A, Launer L, Ladwig KH, Cornelis MC, Teumer A, Grabe H, **Kardia SLR**, Ware EB, Smith JA, Snieder H, Eriksson JG, Groop L, Räikkönen K, Lahti J (2018). Bivariate Genome-Wide Association Study of Depressive Symptoms with Type 2 Diabetes and Quantitative Glycemic Traits. *Psychosomatic Medicine.* [Epub ahead of print] PMID: 29280852.
320. Bentley AR, Sung YJ, Brown MR, Winkler TW, Kraja AT, Ntalla I, Schwander K, Chasman DI, Lim E, Deng X, Guo X, Liu J, Lu Y, Cheng CY, Sim X, Vojinovic D, Huffman JE, Musani SK, Li C, Feitosa MF, Richard MA, Noordam R, Baker J, Chen G, Aschard H, Bartz TM, Ding J, Dorajoo R, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Zhao W, Graff M, Alver M, Boissel M, Chai JF, Chen X, Divers J, Evangelou E, Gao C, Goel A, Hagemeijer Y, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC, Hung YJ, Jackson AU, Kasturiratne A, Komulainen P, Kühnel B, Leander K, Lin KH, Luan J, Lyytikäinen LP, Matoba N, Nolte IM, Pietzner M, Prins B, Riaz M, Robino A, Said MA, Schupf N, Scott RA, Sofer T, Stancáková A, Takeuchi F, Tayo BO, van der Most PJ, Varga TV, Wang TD, Wang Y, Ware EB, Wen W, Xiang YB, Yanek LR, Zhang W, Zhao JH, Adeyemo A, Afaq S, Amin N, Amini M, Arking DE, Kraja AT, Liu C, Fetterman JL, Graff M, Have CT, Gu C, Yanek LR, Feitosa MF, Arking DE, Chasman DI, Young K, Ligthart S, Hill WD, Weiss S, Luan J, Giulianini F, Li-Gao R, Hartwig FP, Lin SJ, Wang L, Richardson TG, Yao J, Fernandez EP, Ghanbari M, Wojczynski MK, Lee WJ, Argos M, Armasu SM, Barve RA, Ryan KA, An P, Baranski TJ, Bielinski SJ, Bowden DW, Broeckel U, Christensen K, Chu AY, Corley J, Cox SR, Uitterlinden AG, Rivadeneira F, Cropp CD, Daw EW, van Heemst D, de Las Fuentes L, Gao H, Tzoulaki I, Ahluwalia TS, de Mutsert

R, Emery LS, Erzurumluoglu AM, Perry JA, Fu M, Forouhi NG, Gu Z, Hai Y, Harris SE, Hemani G, Hunt SC, Irvin MR, Jonsson AE, Justice AE, Kerrison ND, Larson NB, Lin KH, Love-Gregory LD, Mathias RA, Lee JH, Nauck M, Noordam R, Ong KK, Pankow J, Patki A, Pattie A, Petersmann A, Qi Q, Ribel-Madsen R, Rohde R, Sandow K, Schnurr TM, Sofer T, Starr JM, Taylor AM, Teumer A, Timpson NJ, de Haan HG, Wang Y, Weeke PE, Williams C, Wu H, Yang W, Zeng D, Witte DR, Weir BS, Wareham NJ, Vestergaard H, Turner ST, Torp-Pedersen C, Stergiakouli E, Sheu WH, Rosendaal FR, Ikram MA, Franco OH, Ridker PM, Perls TT, Pedersen O, Nohr EA, Newman AB, Linneberg A, Langenberg C, Kilpeläinen TO, **Kardia SLR**, Jørgensen ME, Jørgensen T, Sørensen TIA, Homuth G, Hansen T, Goodarzi MO, Deary IJ, Christensen C, Chen YI, Chakravarti A, Brändslund I, Bonnelykke K, Taylor KD, Wilson JG, Rodriguez S, Davies G, Horta BL, Thyagarajan B, Rao DC, Grarup N, Davila-Roman VG, Hudson G, Guo X, Arnett DK, Hayward C, Vaidya D, Mook-Kanamori DO, Tiwari HK, Levy D, Loos RJF, Dehghan A, Elliott P, Malik AN, Scott RA, Becker DM, de Andrade M, Province MA, Meigs JB, Rotter JI, North KE. Associations of Mitochondrial and Nuclear Mitochondrial Variants and Genes with Seven Metabolic Traits. *Am J Hum Genet.* 2019 Jan 3;104(1):112-138. doi: 10.1016/j.ajhg.2018.12.001. Epub 2018 Dec 27. PMID: 30595373; PMCID: PMC6323610.

321. Chauhan G, Adams HHH, Satizabal CL, Bis JC, Teumer A, Sargurupremraj M, Hofer E, Trompet S, Hilal S, Smith AV, Jian X, Malik R, Traylor M, Pulit SL, Amouyel P, Mazoyer B, Zhu YC, Kaffashian S, Schilling S, Beecham GW, Montine TJ, Schellenberg GD, Kjartansson O, Guðnason V, Knopman DS, Griswold ME, Windham BG, Gottesman RF, Mosley TH, Schmidt R, Saba Y, Schmidt H, Takeuchi F, Yamaguchi S, Nabika T, Kato N, Rajan KB, Aggarwal NT, De Jager PL, Evans DA, Psaty BM, Rotter JI, Rice K, Lopez OL, Liao J, Chen C, Cheng CY, Wong TY, Ikram MK, van der Lee SJ, Amin N, Chouraki V, DeStefano AL, Aparicio HJ, Romero JR, Maillard P, DeCarli C, Wardlaw JM, Hernández MDCV, Luciano M, Liewald D, Deary IJ, Starr JM, Bastin ME, Muñoz Maniega S, Slagboom PE, Beekman M, Deelen J, Uh HW, Lemmens R, Brodaty H, Wright MJ, Ames D, Boncoraglio GB, Hopewell JC, Beecham AH, Blanton SH, Wright CB, Sacco RL, Wen W, Thalamuthu A, Armstrong NJ, Chong E, Schofield PR, Kwok JB, van der Grond J, Stott DJ, Ford I, Jukema JW, Vernooij MW, Hofman A, Uitterlinden AG, van der Lugt A, Wittfeld K, Grabe HJ, Hosten N, von Sarnowski B, Völker U, Levi C, Jimenez-Conde J, Sharma P, Sudlow CLM, Rosand J, Woo D, Cole JW, Meschia JF, Slowik A, Thijss V, Lindgren A, Melander O, Grewal RP, Rundek T, Rexrode K, Rothwell PM, Arnett DK, Jern C, Johnson JA, Benavente OR, Wasssertheil-Smoller S, Lee JM, Wong Q, Mitchell BD, Rich SS, McArdle PF, Geerlings MI, van der Graaf Y, de Bakker PIW, Asselbergs FW, Srikanth V, Thomson R, McWhirter R, Moran C, Callisaya M, Phan T, Rutten-Jacobs LCA, Bevan S, Tzourio C, Mather KA, Sachdev PS, van Duijn CM, Worrall BB, Dichgans M, Kittner SJ, Markus HS, Ikram MA, Fornage M, Launer LJ, Seshadri S, Longstreth WT Jr, Debette S; Stroke Genetics Network (SiGN), the International Stroke Genetics Consortium (ISGC), METASTROKE, Alzheimer's Disease Genetics Consortium (ADGC), and the Neurology Working Group of the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium. Genetic and lifestyle risk factors for MRI-defined brain infarcts in a population-based setting. *Neurology.* 2019 Jan

16;92(5):e486–503. doi: 10.1212/WNL.0000000000006851. Epub ahead of print. PMID: 30651383; PMCID: PMC6369905.

322. Kilpeläinen TO, Bentley AR, Noordam R, Sung YJ, Schwander K, Winkler TW, Jakupović H, Chasman DI, Manning A, Ntalla I, Aschard H, Brown MR, de Las Fuentes L, Franceschini N, Guo X, Vojinovic D, Aslibekyan S, Feitosa MF, Kho M, Musani SK, Richard M, Wang H, Wang Z, Bartz TM, Bielak LF, Campbell A, Dorajoo R, Fisher V, Hartwig FP, Horimoto ARVR, Li C, Lohman KK, Marten J, Sim X, Smith AV, Tajuddin SM, Alver M, Amini M, Boissel M, Chai JF, Chen X, Divers J, Evangelou E, Gao C, Graff M, Harris SE, He M, Hsu FC, Jackson AU, Zhao JH, Kraja AT, Kühnel B, Laguzzi F, Lyytikäinen LP, Nolte IM, Rauramaa R, Riaz M, Robino A, Rueedi R, Stringham HM, Takeuchi F, van der Most PJ, Varga TV, Verweij N, Ware EB, Wen W, Li X, Yanek LR, Amin N, Arnett DK, Boerwinkle E, Brumat M, Cade B, Canouil M, Chen YI, Concas MP, Connell J, de Mutsert R, de Silva HJ, de Vries PS, Demirkan A, Ding J, Eaton CB, Faul JD, Friedlander Y, Gabriel KP, Ghanbari M, Julianini F, Gu CC, Gu D, Harris TB, He J, Heikkinen S, Heng CK, Hunt SC, Ikram MA, Jonas JB, Koh WP, Komulainen P, Krieger JE, Kritchevsky SB, Kutalik Z, Kuusisto J, Langefeld CD, Langenberg C, Launer LJ, Leander K, Lemaitre RN, Lewis CE, Liang J; Lifelines Cohort Study, Liu J, Mägi R, Manichaikul A, Meitinger T, Metspalu A, Milaneschi Y, Mohlke KL, Mosley TH Jr, Murray AD, Nalls MA, Nang EK, Nelson CP, Nona S, Norris JM, Nwuba CV, O'Connell J, Palmer ND, Papanicolau GJ, Pazoki R, Pedersen NL, Peters A, Peyser PA, Polasek O, Porteous DJ, Poveda A, Raitakari OT, Rich SS, Risch N, Robinson JG, Rose LM, Rudan I, Schreiner PJ, Scott RA, Sidney SS, Sims M, Smith JA, Snieder H, Sofer T, Starr JM, Sternfeld B, Strauch K, Tang H, Taylor KD, Tsai MY, Tuomilehto J, Uitterlinden AG, van der Ende MY, van Heemst D, Voortman T, Waldenberger M, Wennberg P, Wilson G, Xiang YB, Yao J, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Boehnke M, Bowden DW, de Faire U, Deary IJ, Elliott P, Esko T, Freedman BI, Froguel P, Gasparini P, Gieger C, Kato N, Laakso M, Lakka TA, Lehtimäki T, Magnusson PKE, Oldehinkel AJ, Penninx BWJH, Samani NJ, Shu XO, van der Harst P, Van Vliet-Ostaptchouk JV, Vollenweider P, Wagenknecht LE, Wang YX, Wareham NJ, Weir DR, Wu T, Zheng W, Zhu X, Evans MK, Franks PW, Gudnason V, Hayward C, Horta BL, Kelly TN, Liu Y, North KE, Pereira AC, Ridker PM, Tai ES, van Dam RM, Fox ER, **Kardia SLR**, Liu CT, Mook-Kanamori DO, Province MA, Redline S, van Duijn CM, Rotter JI, Kooperberg CB, Gauderman WJ, Psaty BM, Rice K, Munroe PB, Fornage M, Cupples LA, Rotimi CN, Morrison AC, Rao DC, Loos RJF. Multi-ancestry study of blood lipid levels identifies four loci interacting with physical activity. *Nat Commun.* 2019 Jan 22;10(1):376. doi: 10.1038/s41467-018-08008-w. PMID: 30670697; PMCID: PMC6342931.
323. Wang H, Nandakumar P, Tekola-Ayele F, Tayo BO, Ware EB, Gu CC, Lu Y, Yao J, Zhao W, Smith JA, Hellwege JN, Guo X, Edwards TL, Loos RJF, Arnett DK, Fornage M, Rotimi C, **Kardia SLR**, Cooper RS, Rao DC, Ehret G, Chakravarti A, Zhu X. Combined linkage and association analysis identifies rare and low frequency variants for blood pressure at 1q31. *Eur J Hum Genet.* 2019 Feb;27(2):269-277. doi: 10.1038/s41431-018-0277-1. Epub 2018 Sep 27. PMID: 30262922; PMCID: PMC6336803.

324. He KY, Li X, Kelly TN, Liang J, Cade BE, Assimes TL, Becker LC, Beitelshes AL, Bress AP, Chang YC, Chen YI, de Vries PS, Fox ER, Franceschini N, Furniss A, Gao Y, Guo X, Haessler J, Hwang SJ, Irvin MR, Kalyani RR, Liu CT, Liu C, Martin LW, Montasser ME, Muntner PM, Mwasongwe S, Palmas W, Reiner AP, Shimbo D, Smith JA, Snively BM, Yanek LR, Boerwinkle E, Correa A, Cupples LA, He J, **Kardia SLR**, Kooperberg C, Mathias RA, Mitchell BD, Psaty BM, Vasan RS, Rao DC, Rich SS, Rotter JI, Wilson JG; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium, TOPMed Blood Pressure Working Group, Chakravarti A, Morrison AC, Levy D, Arnett DK, Redline S, Zhu X. Leveraging linkage evidence to identify low-frequency and rare variants on 16p13 associated with blood pressure using TOPMed whole genome sequencing data. *Hum Genet.* 2019 Feb;138(2):199-210. doi: 10.1007/s00439-019-01975-0. Epub 2019 Jan 22. PMID: 30671673; PMCID: PMC6404531.
325. Chen H, Huffman JE, Brody JA, Wang C, Lee S, Li Z, Gogarten SM, Sofer T, Bielak LF, Bis JC, Blangero J, Bowler RP, Cade BE, Cho MH, Correa A, Curran JE, de Vries PS, Glahn DC, Guo X, Johnson AD, **Kardia S**, Kooperberg C, Lewis JP, Liu X, Mathias RA, Mitchell BD, O'Connell JR, Peyser PA, Post WS, Reiner AP, Rich SS, Rotter JI, Silverman EK, Smith JA, Vasan RS, Wilson JG, Yanek LR; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; TOPMed Hematology and Hemostasis Working Group, Redline S, Smith NL, Boerwinkle E, Borecki IB, Cupples LA, Laurie CC, Morrison AC, Rice KM, Lin X. Efficient Variant Set Mixed Model Association Tests for Continuous and Binary Traits in Large-Scale Whole-Genome Sequencing Studies. *Am J Hum Genet.* 2019 Feb 7;104(2):260-274. doi: 10.1016/j.ajhg.2018.12.012. Epub 2019 Jan 10. PMID: 30639324; PMCID: PMC6372261.
326. Liu M, Jiang Y, Wedow R, Li Y, Brazel DM, Chen F, Datta G, Davila-Velderrain J, McGuire D, Tian C, Zhan X; 23andMe Research Team; HUNT All-In Psychiatry, Choquet H, Docherty AR, Faul JD, Foerster JR, Fritzsche LG, Gabrielsen ME, Gordon SD, Haessler J, Hottenga JJ, Huang H, Jang SK, Jansen PR, Ling Y, Mägi R, Matoba N, McMahon G, Mulas A, Orrù V, Palviainen T, Pandit A, Regnsson GW, Skogholt AH, Smith JA, Taylor AE, Turman C, Willemse G, Young H, Young KA, Zajac GJM, Zhao W, Zhou W, Bjornsdottir G, Boardman JD, Boehnke M, Boomsma DI, Chen C, Cucca F, Davies GE, Eaton CB, Ehringer MA, Esko T, Fiorillo E, Gillespie NA, Gudbjartsson DF, Haller T, Harris KM, Heath AC, Hewitt JK, Hickie IB, Hokanson JE, Hopfer CJ, Hunter DJ, Iacono WG, Johnson EO, Kamatani Y, **Kardia SLR**, Keller MC, Kellis M, Kooperberg C, Kraft P, Krauter KS, Laakso M, Lind PA, Loukola A, Lutz SM, Madden PAF, Martin NG, McGue M, McQueen MB, Medland SE, Metspalu A, Mohlke KL, Nielsen JB, Okada Y, Peters U, Polderman TJC, Posthuma D, Reiner AP, Rice JP, Rimm E, Rose RJ, Runarsdottir V, Stallings MC, Stančáková A, Stefansson H, Thai KK, Tindle HA, Tyrfingsson T, Wall TL, Weir DR, Weisner C, Whitfield JB, Winsvold BS, Yin J, Zuccolo L, Bierut LJ, Hveem K, Lee JJ, Munafò MR, Saccone NL, Willer CJ, Cornelis MC, David SP, Hinds DA, Jorgenson E, Kaprio J, Stitzel JA, Stefansson K, Thorleifsson TE, Abecasis G, Liu DJ, Vrieze S. Association studies of up to 1.2 million individuals yield new insights into the genetic etiology of tobacco and alcohol use. *Nat Genet.* 2019 Feb;51(2):237-244. doi: 10.1038/s41588-018-0307-5. Epub 2019 Jan 14. PMID: 30643251; PMCID: PMC6358542.

327. Justice AE, Karaderi T, Highland HM, Young KL, Graff M, Lu Y, Turcot V, Auer PL, Fine RS, Guo X, Schurmann C, Lempradl A, Marouli E, Mahajan A, Winkler TW, Locke AE, Medina-Gomez C, Esko T, Vedantam S, Giri A, Lo KS, Alfred T, Mudgal P, Ng MCY, Heard-Costa NL, Feitosa MF, Manning AK, Willems SM, Sivapalaratnam S, Abecasis G, Alam DS, Allison M, Amouyel P, Arzumanyan Z, Balkau B, Bastarache L, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bottinger EP, Bowden DW, Brandslund I, Broer L, Burt AA, Butterworth AS, Caulfield MJ, Cesana G, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Collins FS, Cook JP, Cox AJ, Crosslin DS, Danesh J, de Bakker PIW, Denus S, Mutsert R, Dedoussis G, Demerath EW, Dennis JG, Denny JC, Di Angelantonio E, Dörr M, Drenos F, Dubé MP, Dunning AM, Easton DF, Elliott P, Evangelou E, Farmaki AE, Feng S, Ferrannini E, Ferrieres J, Florez JC, Fornage M, Fox CS, Franks PW, Friedrich N, Gan W, Gandin I, Gasparini P, Giedraitis V, Girotto G, Gorski M, Grallert H, Grarup N, Grove ML, Gustafsson S, Haessler J, Hansen T, Hattersley AT, Hayward C, Heid IM, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Hung YJ, Hveem K, Ikram MA, Ingelsson E, Jackson AU, Jarvik GP, Jia Y, Jørgensen T, Jousilahti P, Justesen JM, Kahali B, Karaleftheri M, **Kardia SLR**, Karpe F, Kee F, Kitajima H, Komulainen P, Kooner JS, Kovacs P, Krämer BK, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA, Lamparter D, Lange LA, Langenberg C, Larson EB, Lee NR, Lee WJ, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Luan J, Lyytikäinen LP, MacGregor S, Mägi R, Männistö S, Marenne G, Marten J, Masca NGD, McCarthy MI, Meidner K, Mihailov E, Moilanen L, Moitry M, Mook-Kanamori DO, Morgan A, Morris AP, Müller-Nurasyid M, Munroe PB, Narisu N, Nelson CP, Neville M, Ntalla I, O'Connell JR, Owen KR, Pedersen O, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Ewing A, Polasek O, Raitakari OT, Rasheed A, Raulerson CK, Rauramaa R, Reilly DF, Reiner AP, Ridker PM, Rivas MA, Robertson NR, Robino A, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe M, Sim X, Slater AJ, Small KS, Smith BH, Smith JA, Southam L, Spector TD, Speliotes EK, Stefansson K, Steinhorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swart KMA, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Torres M, Tsafantakis E, Tuomilehto J, Uitterlinden AG, Uusitupa M, van Duijn CM, Vanhala M, Varma R, Vermeulen SH, Vestergaard H, Vitart V, Vogt TF, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Wood AR, Wu Y, Yaghootkar H, Yao J, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zheng H, Zhou W, Zillikens MC, Rivadeneira F, Borecki IB, Pospisilic JA, Deloukas P, Frayling TM, Lettre G, Mohlke KL, Rotter JI, Kutalik Z, Hirschhorn JN, Cupples LA, Loos RJF, North KE, Lindgren CM; CHD Exome+ Consortium; Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; InterAct; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators. Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body-fat distribution. *Nat Genet.* 2019 Mar;51(3):452-469. doi:

10.1038/s41588-018-0334-2. Epub 2019 Feb 18. PMID: 30778226; PMCID: PMC6560635.

328. Arzumanyan Z, Aung T, Ballantyne C, Barr RG, Bielak LF, Boerwinkle E, Bottinger EP, Broeckel U, Brown M, Cade BE, Campbell A, Canouil M, Charumathi S, Chen YI, Christensen K; COGENT-Kidney Consortium, Concas MP, Connell JM, de Las Fuentes L, de Silva HJ, de Vries PS, Doumatey A, Duan Q, Eaton CB, Eppinga RN, Faul JD, Floyd JS, Forouhi NG, Forrester T, Friedlander Y, Gandin I, Gao H, Ghanbari M, Gharib SA, Gigante B, Giulianini F, Grabe HJ, Gu CC, Harris TB, Heikkinen S, Heng CK, Hirata M, Hixson JE, Ikram MA; EPIC-InterAct Consortium, Jia Y, Joehanes R, Johnson C, Jonas JB, Justice AE, Katsuya T, Khor CC, Kilpeläinen TO, Koh WP, Kolcic I, Kooperberg C, Krieger JE, Kritchevsky SB, Kubo M, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lewis CE, Li Y, Liang J, Lin S, Liu CT, Liu J, Liu K, Loh M, Lohman KK, Louie T, Luzzi A, Mägi R, Mahajan A, Manichaikul AW, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mohlke KL, Momozawa Y, Morris AP, Murray AD, Nalls MA, Nauck M, Nelson CP, North KE, O'Connell JR, Palmer ND, Papanicolau GJ, Pedersen NL, Peters A, Peyser PA, Polasek O, Poulter N, Raitakari OT, Reiner AP, Renström F, Rice TK, Rich SS, Robinson JG, Rose LM, Rosendaal FR, Rudan I, Schmidt CO, Schreiner PJ, Scott WR, Sever P, Shi Y, Sidney S, Sims M, Smith JA, Snieder H, Starr JM, Strauch K, Stringham HM, Tan NYQ, Tang H, Taylor KD, Teo YY, Tham YC, Tiemeier H, Turner ST, Uitterlinden AG; Understanding Society Scientific Group, van Heemst D, Waldenberger M, Wang H, Wang L, Wang L, Wei WB, Williams CA, Wilson G Sr, Wojczynski MK, Yao J, Young K, Yu C, Yuan JM, Zhou J, Zonderman AB, Becker DM, Bohnke M, Bowden DW, Chambers JC, Cooper RS, de Faire U, Deary IJ, Elliott P, Esko T, Farrall M, Franks PW, Freedman BI, Froguel P, Gasparini P, Gieger C, Horta BL, Juang JJ, Kamatani Y, Kammerer CM, Kato N, Kooner JS, Laakso M, Laurie CC, Lee IT, Lehtimäki T; Lifelines Cohort, Magnusson PKE, Oldehinkel AJ, Penninx BWJH, Pereira AC, Rauramaa R, Redline S, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wang JS, Wang YX, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Wu T, Zeggini E, Zheng W, Bouchard C, Evans MK, Gudnason V, **Kardia SLR**, Liu Y, Psaty BM, Ridker PM, van Dam RM, Mook-Kanamori DO, Fornage M, Province MA, Kelly TN, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Loos RJF, Franceschini N, Rotter JI, Zhu X, Bierut LJ, Gauderman WJ, Rice K, Munroe PB, Morrison AC, Rao DC, Rotimi CN, Cupples LA. Multi-ancestry genome-wide gene-smoking interaction study of 387,272 individuals identifies new loci associated with serum lipids. *Nat Genet.* 2019 Apr;51(4):636-648. doi: 10.1038/s41588-019-0378-y. Epub 2019 Mar 29. PMID: 30926973; PMCID: PMC6467258.
329. Barcelona V, Huang Y, Brown K, Liu J, Zhao W, Yu M, **Kardia SLR**, Smith JA, Taylor JY, Sun YV. Novel DNA methylation sites associated with cigarette smoking among African Americans. *Epigenetics.* 2019 Apr;14(4):383-391. doi: 10.1080/15592294.2019.1588683. Epub 2019 Mar 27. PMID: 30915882; PMCID: PMC6557550.
330. Schlicht K, Nyczka P, Caliebe A, Freitag-Wolf S, Claringbould A, Franke L, Võsa U; BIOS Consortium, **Kardia SLR**, Smith JA, Zhao W, Gieger C, Peters A, Prokisch H, Strauch K; KORA Study Group, Baurecht H, Weidinger S, Rosenstiel P, Hütt MT, Knecht

C, Szymczak S, Krawczak M. The metabolic network coherence of human transcriptomes is associated with genetic variation at the cadherin 18 locus. *Hum Genet*. 2019 Apr;138(4):375-388. doi: 10.1007/s00439-019-01994-x. Epub 2019 Mar 9. PMID: 30852652; PMCID: PMC6483969.

331. Brown KM, Diez-Roux AV, Smith JA, Needham BL, Mukherjee B, Ware EB, Liu Y, Cole SW, Seeman TE, **Kardia SLR**. Expression of socially sensitive genes: The multi-ethnic study of atherosclerosis. *PLoS One*. 2019 Apr 11;14(4):e0214061. doi: 10.1371/journal.pone.0214061. PMID: 30973896; PMCID: PMC6459532.
332. Barata L, Feitosa MF, Bielak LF, Halligan B, Baldridge AS, Guo X, Yerges-Armstrong LM, Smith AV, Yao J, Palmer ND, VanWagner LB, Carr JJ, Chen YI, Allison M, Budoff MJ, Handelman SK, **Kardia SLR**, Mosley TH Jr, Ryan K, Harris TB, Launer LJ, Gudnason V, Rotter JI, Fornage M, Rasmussen-Torvik LJ, Borecki IB, O'Connell JR, Peyser PA, Speliotes EK, Province MA. Insulin Resistance Exacerbates Genetic Predisposition to Nonalcoholic Fatty Liver Disease in Individuals Without Diabetes. *Hepatol Commun*. 2019 Apr 18;3(7):894-907. doi: 10.1002/hep4.1353. eCollection 2019 Jul. PubMed PMID: 31334442; PMCID: PMC6601321.
333. Davies G, Lam M, Harris SE, Trampush JW, Luciano M, Hill WD, Hagenaars SP, Ritchie SJ, Marioni RE, Fawns-Ritchie C, Liewald DCM, Okely JA, Ahola-Olli AV, Barnes CLK, Bertram L, Bis JC, Burdick KE, Christoforou A, DeRosse P, Djurovic S, Espeseth T, Giakoumaki S, Giddaluru S, Gustavson DE, Hayward C, Hofer E, Ikram MA, Karlsson R, Knowles E, Lahti J, Leber M, Li S, Mather KA, Melle I, Morris D, Oldmeadow C, Palviainen T, Payton A, Pazoki R, Petrovic K, Reynolds CA, Sargurupremraj M, Scholz M, Smith JA, Smith AV, Terzikhan N, Thalamuthu A, Trompet S, van der Lee SJ, Ware EB, Windham BG, Wright MJ, Yang J, Yu J, Ames D, Amin N, Amouyel P, Andreassen OA, Armstrong NJ, Assareh AA, Attia JR, Attix D, Avramopoulos D, Bennett DA, Böhmer AC, Boyle PA, Brodaty H, Campbell H, Cannon TD, Cirulli ET, Congdon E, Conley ED, Corley J, Cox SR, Dale AM, Dehghan A, Dick D, Dickinson D, Eriksson JG, Evangelou E, Faul JD, Ford I, Freimer NA, Gao H, Giegling I, Gillespie NA, Gordon SD, Gottesman RF, Griswold ME, Gudnason V, Harris TB, Hartmann AM, Hatzimanolis A, Heiss G, Holliday EG, Joshi PK, Kähönen M, **Kardia SLR**, Karlsson I, Kleineidam L, Knopman DS, Kochan NA, Konte B, Kwok JB, Le Hellard S, Lee T, Lehtimäki T, Li SC, Lill CM, Liu T, Koini M, London E, Longstreth WT Jr, Lopez OL, Loukola A, Luck T, Lundervold AJ, Lundquist A, Lyytikäinen LP, Martin NG, Montgomery GW, Murray AD, Need AC, Noordam R, Nyberg L, Ollier W, Papenberg G, Pattie A, Polasek O, Poldrack RA, Psaty BM, Repermund S, Riedel-Heller SG, Rose RJ, Rotter JI, Roussos P, Rovio SP, Saba Y, Sabb FW, Sachdev PS, Satizabal CL, Schmid M, Scott RJ, Scult MA, Simino J, Slagboom PE, Smyrnis N, Soumaré A, Stefanis NC, Stott DJ, Straub RE, Sundet K, Taylor AM, Taylor KD, Tzoulaki I, Tzourio C, Uitterlinden A, Vitart V, Voineskos AN, Kaprio J, Wagner M, Wagner H, Weinhold L, Wen KH, Widen E, Yang Q, Zhao W, Adams HHH, Arking DE, Bilder RM, Bitsios P, Boerwinkle E, Chiba-Falek O, Corvin A, De Jager PL, Debette S, Donohoe G, Elliott P, Fitzpatrick AL, Gill M, Glahn DC, Hägg S, Hansell NK, Hariri AR, Ikram MK, Jukema JW, Vuoksimaa E, Keller MC, Kremen WS, Launer L, Lindenberger U, Palotie A, Pedersen NL, Pendleton N, Porteous DJ, Räikkönen K,

- Raitakari OT, Ramirez A, Reinvang I, Rudan I, Dan Rujescu, Schmidt R, Schmidt H, Schofield PW, Schofield PR, Starr JM, Steen VM, Trollor JN, Turner ST, Van Duijn CM, Villringer A, Weinberger DR, Weir DR, Wilson JF, Malhotra A, McIntosh AM, Gale CR, Seshadri S, Mosley TH Jr, Bressler J, Lencz T, Deary IJ. Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function. *Nat Commun.* 2018 May 29;9(1):2098. doi: 10.1038/s41467-018-04362-x. Erratum in: *Nat Commun.* 2019 May 1;10(1):2068. PMID: 29844566; PMCID: PMC5974083.
334. Ma J, Nano J, Ding J, Zheng Y, Hennein R, Liu C, Speliates EK, Huan T, Song C, Mendelson MM, Joehanes R, Long MT, Liang L, Smith JA, Reynolds LM, Ghanbari M, Muka T, van Meurs JBJ, Alferink LJM, Franco OH, Dehghan A, Ratliff S, Zhao W, Bielak L, **Kardia SLR**, Peyser PA, Ning H, VanWagner LB, Lloyd-Jones DM, Carr JJ, Greenland P, Lichtenstein AH, Hu FB, Liu Y, Hou L, Darwish Murad S, Levy D. A Peripheral Blood DNA Methylation Signature of Hepatic Fat Reveals a Potential Causal Pathway for Nonalcoholic Fatty Liver Disease. *Diabetes.* 2019 May;68(5):1073-1083. doi: 10.2337/db18-1193. Epub 2019 Apr 1. PMID: 30936141; PMCID: PMC6477898.
335. Taylor JY, Ware EB, Wright ML, Smith JA, **Kardia SLR**. Using Genetic Burden Scores for Gene-by-Methylation Interaction Analysis on Metabolic Syndrome in African Americans. *Biol Res Nurs.* 2019 May;21(3):279-285. doi: 10.1177/1099800419828486. Epub 2019 Feb 19. PMID: 30781968; PMCID: PMC6700897.
336. Ward-Caviness CK, de Vries PS, Wiggins KL, Huffman JE, Yanek LR, Bielak LF, Julianini F, Guo X, Kleber ME, Kacprowski T, Groß S, Petersman A, Davey Smith G, Hartwig FP, Bowden J, Hemani G, Müller-Nuraysid M, Strauch K, Koenig W, Waldenberger M, Meitinger T, Pankratz N, Boerwinkle E, Tang W, Fu YP, Johnson AD, Song C, de Maat MPM, Uitterlinden AG, Franco OH, Brody JA, McKnight B, Chen YI, Psaty BM, Mathias RA, Becker DM, Peyser PA, Smith JA, Bielinski SJ, Ridker PM, Taylor KD, Yao J, Tracy R, Delgado G, Trompet S, Sattar N, Jukema JW, Becker LC, **Kardia SLR**, Rotter JI, März W, Dörr M, Chasman DI, Dehghan A, O'Donnell CJ, Smith NL, Peters A, Morrison AC. Mendelian randomization evaluation of causal effects of fibrinogen on incident coronary heart disease. *PLoS One.* 2019 May 10;14(5):e0216222. doi: 10.1371/journal.pone.0216222. PMID: 31075152; PMCID: PMC6510421.
337. Brazel DM, Jiang Y, Hughey JM, Turcot V, Zhan X, Gong J, Batini C, Weissenkampen JD, Liu M; CHD Exome+ Consortium; Consortium for Genetics of Smoking Behaviour, Barnes DR, Bertelsen S, Chou YL, Erzurumluoglu AM, Faul JD, Haessler J, Hammerschlag AR, Hsu C, Kapoor M, Lai D, Le N, de Leeuw CA, Loukola A, Mangino M, Melbourne CA, Pistis G, Qaiser B, Rohde R, Shao Y, Stringham H, Wetherill L, Zhao W, Agrawal A, Bierut L, Chen C, Eaton CB, Goate A, Haiman C, Heath A, Iacono WG, Martin NG, Polderman TJ, Reiner A, Rice J, Schlessinger D, Scholte HS, Smith JA, Tardif JC, Tindle HA, van der Leij AR, Boehnke M, Chang-Claude J, Cucca F, David SP, Foroud T, Howson JMM, **Kardia SLR**, Kooperberg C, Laakso M, Lettre G, Madden P, McGue M, North K, Posthumus D, Spector T, Stram D, Tobin MD, Weir DR, Kaprio J, Abecasis GR, Liu DJ, Vrieze S. Exome Chip Meta-analysis Fine Maps Causal Variants and Elucidates the Genetic Architecture of Rare Coding Variants in Smoking and Alcohol Use.

*Biol Psychiatry*. 2019 Jun 1;85(11):946-955. doi: 10.1016/j.biopsych.2018.11.024. Epub 2018 Dec 6. PMID: 30679032; PMCID: PMC6534468.

338. de Vries PS, Brown MR, Bentley AR, Sung YJ, Winkler TW, Ntalla I, Schwander K, Kraja AT, Guo X, Franceschini N, Cheng CY, Sim X, Vojinovic D, Huffman JE, Musani SK, Li C, Feitosa MF, Richard MA, Noordam R, Aschard H, Bartz TM, Bielak LF, Deng X, Dorajoo R, Lohman KK, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Evangelou E, Graff M, Alver M, Boissel M, Chai JF, Chen X, Divers J, Gandin I, Gao C, Goel A, Hagemeijer Y, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC, Jackson AU, Kasturiratne A, Komulainen P, Kühnel B, Laguzzi F, Lee JH, Luan J, Lyytikäinen LP, Matoba N, Nolte IM, Pietzner M, Riaz M, Said MA, Scott RA, Sofer T, Stančáková A, Takeuchi F, Tayo BO, van der Most PJ, Varga TV, Wang Y, Ware EB, Wen W, Yanek LR, Zhang W, Zhao JH, Afaq S, Amin N, Amini M, Arking DE, Aung T, Ballantyne C, Boerwinkle E, Broeckel U, Campbell A, Canouil M, Charumathi S, Chen YI, Connell JM, de Faire U, de Las Fuentes L, de Mutsert R, de Silva HJ, Ding J, Dominiczak AF, Duan Q, Eaton CB, Eppinga RN, Faul JD, Fisher V, Forrester T, Franco OH, Friedlander Y, Ghanbari M, Giulianini F, Grabe HJ, Grove ML, Gu CC, Harris TB, Heikkinen S, Heng CK, Hirata M, Hixson JE, Howard BV, Ikram MA; InterAct Consortium, Jacobs DR, Johnson C, Jonas JB, Kammerer CM, Katsuya T, Khor CC, Kilpeläinen TO, Koh WP, Koistinen HA, Kolcic I, Kooperberg C, Krieger JE, Kritchevsky SB, Kubo M, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lemaitre RN, Li Y, Liang J, Liu J, Liu K, Loh M, Louie T, Mägi R, Manichaikul AW, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mohlke KL, Mosley TH, Mukamal KJ, Nalls MA, Nauck M, Nelson CP, Sotoodehnia N, O'Connell JR, Palmer ND, Pazoki R, Pedersen NL, Peters A, Peyser PA, Polasek O, Poulter N, Raffel LJ, Raitakari OT, Reiner AP, Rice TK, Rich SS, Robino A, Robinson JG, Rose LM, Rudan I, Schmidt CO, Schreiner PJ, Scott WR, Sever P, Shi Y, Sidney S, Sims M, Smith BH, Smith JA, Snieder H, Starr JM, Strauch K, Tan N, Taylor KD, Teo YY, Tham YC, Uitterlinden AG, van Heemst D, Vuckovic D, Waldenberger M, Wang L, Wang Y, Wang Z, Wei WB, Williams C, Wilson G, Wojczynski MK, Yao J, Yu B, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Deary IJ, Esko T, Farrall M, Franks PW, Freedman BI, Froguel P, Gasparini P, Gieger C, Horta BL, Kamatani Y, Kato N, Kooner JS, Laakso M, Leander K, Lehtimäki T; Lifelines Cohort, Groningen, The Netherlands (Lifelines Cohort Study), Magnusson PKE, Penninx B, Pereira AC, Rauramaa R, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wang YX, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Zheng W, Elliott P, North KE, Bouchard C, Evans MK, Gudnason V, Liu CT, Liu Y, Psaty BM, Ridker PM, van Dam RM, **Kardia SLR**, Zhu X, Rotimi CN, Mook-Kanamori DO, Fornage M, Kelly TN, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Liu J, Rotter JI, Gauderman WJ, Province MA, Munroe PB, Rice K, Chasman DI, Cupples LA, Rao DC, Morrison AC. Multiancestry Genome-Wide Association Study of Lipid Levels Incorporating Gene-Alcohol Interactions. *Am J Epidemiol*. 2019 Jun 1;188(6):1033-1054. doi: 10.1093/aje/kwz005. PMID: 30698716; PMCID: PMC6545280.
339. Ward-Caviness CK, Huffman JE, Everett K, Germain M, van Dongen J, Hill WD, Jhun MA, Brody JA, Ghanbari M, Du L, Roetker NS, de Vries PS, Waldenberger M, Gieger C,

Wolf P, Prokisch H, Koenig W, O'Donnell CJ, Levy D, Liu C, Truong V, Wells PS, Trégouët DA, Tang W, Morrison AC, Boerwinkle E, Wiggins KL, McKnight B, Guo X, Psaty BM, Sotoodehnia N, Boomsma DI, Willemsen G, Ligthart L, Deary IJ, Zhao W, Ware EB, **Kardia SLR**, Van Meurs JBJ, Uitterlinden AG, Franco OH, Eriksson P, Franco-Cereceda A, Pankow JS, Johnson AD, Gagnon F, Morange PE, de Geus EJC, Starr JM, Smith JA, Dehghan A, Björck HM, Smith NL, Peters A. DNA methylation age is associated with an altered hemostatic profile in a multiethnic meta-analysis. *Blood*. 2018 Oct 25;132(17):1842-1850. doi: 10.1182/blood-2018-02-831347. Epub 2018 Jul 24. Erratum in: *Blood*. 2019 Jul 11;134(2):218. PMID: 30042098; PMCID: PMC6202911.

340. Platt J, Raj M, Büyüktür AG, Trinidad MG, Olopade O, Ackerman MS, **Kardia S**. Willingness to Participate in Health Information Networks with Diverse Data Use: Evaluating Public Perspectives. *EGEMS (Wash DC)*. 2019 Jul 25;7(1):33. doi: 10.5334/egems.288. PMID: 31367650; PMCID: PMC6659576.
341. Sung YJ, de Las Fuentes L, Winkler TW, Chasman DI, Bentley AR, Kraja AT, Ntalla I, Warren HR, Guo X, Schwander K, Manning AK, Brown MR, Aschard H, Feitosa MF, Franceschini N, Lu Y, Cheng CY, Sim X, Vojinovic D, Marten J, Musani SK, Kilpeläinen TO, Richard MA, Aslibekyan S, Bartz TM, Dorajoo R, Li C, Liu Y, Rankinen T, Smith AV, Tajuddin SM, Tayo BO, Zhao W, Zhou Y, Matoba N, Sofer T, Alver M, Amini M, Boissel M, Chai JF, Chen X, Divers J, Gandin I, Gao C, Giulianini F, Goel A, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC, Jackson AU, Kammerer CM, Kasturiratne A, Komulainen P, Kühnel B, Leander K, Lee WJ, Lin KH, Luan J, Lyytikäinen LP, McKenzie CA, Nelson CP, Noordam R, Scott RA, Sheu WHH, Stančáková A, Takeuchi F, van der Most PJ, Varga TV, Waken RJ, Wang H, Wang Y, Ware EB, Weiss S, Wen W, Yanek LR, Zhang W, Zhao JH, Afaq S, Alfred T, Amin N, Arking DE, Aung T, Barr RG, Bielak LF, Boerwinkle E, Bottinger EP, Braund PS, Brody JA, Broeckel U, Cade B, Campbell A, Canouil M, Chakravarti A, Cocca M, Collins FS, Connell JM, de Mutsert R, de Silva HJ, Dörr M, Duan Q, Eaton CB, Ehret G, Evangelou E, Faul JD, Forouhi NG, Franco OH, Friedlander Y, Gao H, Gigante B, Gu CC, Gupta P, Hagenaars SP, Harris TB, He J, Heikkinen S, Heng CK, Hofman A, Howard BV, Hunt SC, Irvin MR, Jia Y, Katsuya T, Kaufman J, Kerrison ND, Khor CC, Koh WP, Koistinen HA, Kooperberg CB, Krieger JE, Kubo M, Kutilik Z, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lee JH, Lehne B, Levy D, Lewis CE, Li Y; Lifelines Cohort Study, Lim SH, Liu CT, Liu J, Liu J, Liu Y, Loh M, Lohman KK, Louie T, Mägi R, Matsuda K, Meitinger T, Metspalu A, Milani L, Momozawa Y, Mosley TH Jr, Nalls MA, Nasri U, O'Connell JR, Ogunniyi A, Palmas WR, Palmer ND, Pankow JS, Pedersen NL, Peters A, Peyser PA, Polasek O, Porteous D, Raitakari OT, Renström F, Rice TK, Ridker PM, Robino A, Robinson JG, Rose LM, Rudan I, Sabanayagam C, Salako BL, Sandow K, Schmidt CO, Schreiner PJ, Scott WR, Sever P, Sims M, Siltani CM, Smith BH, Smith JA, Snieder H, Starr JM, Strauch K, Tang H, Taylor KD, Teo YY, Tham YC, Uitterlinden AG, Waldenberger M, Wang L, Wang YX, Wei WB, Wilson G, Wojczynski MK, Xiang YB, Yao J, Yuan JM, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Chen YI, Weir DR, de Faire U, Deary IJ, Esko T, Farrall M, Forrester T, Freedman BI, Froguel P, Gasparini P, Gieger C, Horta BL, Hung YJ, Jonas JB, Kato N, Kooner JS, Laakso M, Lehtimäki T, Liang KW, Magnusson PKE, Oldehinkel AJ, Pereira AC, Perls T, Rauramaa R, Redline S, Rettig R,

Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wareham NJ, Watkins H, Wickremasinghe AR, Wu T, Kamatani Y, Laurie CC, Bouchard C, Cooper RS, Evans MK, Gudnason V, Hixson J, **Kardia SLR**, Kritchevsky SB, Psaty BM, van Dam RM, Arnett DK, Mook-Kanamori DO, Fornage M, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Loos RJF, Reiner AP, Rotimi CN, Bierut LJ, Zhu X, Cupples LA, Province MA, Rotter JI, Franks PW, Rice K, Elliott P, Caulfield MJ, Gauderman WJ, Munroe PB, Rao DC, Morrison AC. A multi-ancestry genome-wide study incorporating gene-smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure. *Hum Mol Genet.* 2019 Aug 1;28(15):2615-2633. doi: 10.1093/hmg/ddz070. PMID: 31127295; PMCID: PMC6644157.

342. Natarajan P, Peloso GM, Zekavat SM, Montasser M, Ganna A, Chaffin M, Khera AV, Zhou W, Bloom JM, Engreitz JM, Ernst J, O'Connell JR, Ruotsalainen SE, Alver M, Manichaikul A, Johnson WC, Perry JA, Poterba T, Seed C, Surakka IL, Esko T, Ripatti S, Salomaa V, Correa A, Vasan RS, Kellis M, Neale BM, Lander ES, Abecasis G, Mitchell B, Rich SS, Wilson JG, Cupples LA, Rotter JI, Willer CJ, Kathiresan S; NHLBI TOPMed Lipids Working Group. Deep-coverage whole genome sequences and blood lipids among 16,324 individuals. *Nat Commun.* 2018 Aug 23;9(1):3391. doi: 10.1038/s41467-018-05747-8. PMID: 30140000; PMCID: PMC6107638.
343. Evangelou E, Gao H, Chu C, Ntritsos G, Blakeley P, Butts AR, Pazoki R, Suzuki H, Koskeridis F, Yiorkas AM, Karaman I, Elliott J, Luo Q, Aeschbacher S, Bartz TM, Baumeister SE, Braund PS, Brown MR, Brody JA, Clarke TK, Dimou N, Faul JD, Homuth G, Jackson AU, Kentistou KA, Joshi PK, Lemaitre RN, Lind PA, Lyytikäinen LP, Mangino M, Milaneschi Y, Nelson CP, Nolte IM, Perälä MM, Polasek O, Porteous D, Ratliff SM, Smith JA, Stančáková A, Teumer A, Tuominen S, Thériault S, Vangipurapu J, Whitfield JB, Wood A, Yao J, Yu B, Zhao W, Arking DE, Auvinen J, Liu C, Männikkö M, Risch L, Rotter JI, Snieder H, Veijola J, Blakemore AI, Boehnke M, Campbell H, Conen D, Eriksson JG, Grabe HJ, Guo X, van der Harst P, Hartman CA, Hayward C, Heath AC, Jarvelin MR, Kähönen M, **Kardia SLR**, Kühne M, Kuusisto J, Laakso M, Lahti J, Lehtimäki T, McIntosh AM, Mohlke KL, Morrison AC, Martin NG, Oldehinkel AJ, Penninx BWJH, Psaty BM, Raitakari OT, Rudan I, Samani NJ, Scott LJ, Spector TD, Verweij N, Weir DR, Wilson JF, Levy D, Tzoulaki I, Bell JD, Matthews PM, Rothenfuh A, Desrivières S, Schumann G, Elliott P. New alcohol-related genes suggest shared genetic mechanisms with neuropsychiatric disorders. *Nat Hum Behav.* 2019 Sep;3(9):950-961. doi: 10.1038/s41562-019-0653-z. Epub 2019 Jul 29. PMID: 31358974.
344. Merino J, Dashti HS, Li SX, Sarnowski C, Justice AE, Graff M, Papoutsakis C, Smith CE, Dedoussis GV, Lemaitre RN, Wojczynski MK, Männistö S, Ngwa JS, Kho M, Ahluwalia TS, Pervjakova N, Houston DK, Bouchard C, Huang T, Orho-Melander M, Frazier-Wood AC, Mook-Kanamori DO, Pérusse L, Pennell CE, de Vries PS, Voortman T, Li O, Kanoni S, Rose LM, Lehtimäki T, Zhao JH, Feitosa MF, Luan J, McKeown NM, Smith JA, Hansen T, Eklund N, Nalls MA, Rankinen T, Huang J, Hernandez DG, Schulz CA, Manichaikul A, Li-Gao R, Vohl MC, Wang CA, van Rooij FJA, Shin J, Kalafati IP, Day F, Ridker PM, Kähönen M, Siscovick DS, Langenberg C, Zhao W, Astrup A, Knekkt P, Garcia M, Rao DC, Qi Q, Ferrucci L, Ericson U, Blangero J, Hofman A, Pausova Z,

- Mikkilä V, Wareham NJ, **Kardia SLR**, Pedersen O, Jula A, Curran JE, Zillikens MC, Viikari JS, Forouhi NG, Ordovás JM, Lieske JC, Rissanen H, Uitterlinden AG, Raitakari OT, Kieft-de Jong JC, Dupuis J, Rotter JI, North KE, Scott RA, Province MA, Perola M, Cupples LA, Turner ST, Sørensen TIA, Salomaa V, Liu Y, Sung YJ, Qi L, Bandinelli S, Rich SS, de Mutsert R, Tremblay A, Oddy WH, Franco OH, Paus T, Florez JC, Deloukas P, Lyytikäinen LP, Chasman DI, Chu AY, Tanaka T. Genome-wide meta-analysis of macronutrient intake of 91,114 European ancestry participants from the cohorts for heart and aging research in genomic epidemiology consortium. *Mol Psychiatry*. 2019 Dec;24(12):1920-1932. doi: 10.1038/s41380-018-0079-4. Epub 2018 Jul 9. PMID: 29988085; PMCID: PMC6326896.
345. Modell SM, Citrin T, Burmeister M, **Kardia SL**, Beil A, Raisky J. When Genetics Meets Religion: What Scientists and Religious Leaders Can Learn from Each Other. *Public Health Genomics*. 2019;22(5-6):174-88.
346. Anderson OS, **Kardia S**, Gupta K, August E. Are we teaching our students visual communication? Evaluation of writing assignments in public health. *J Vis Commun Med*. 2020 Jan;43(1):62-65. doi: 10.1080/17453054.2019.1698943. Epub 2019 Dec 19. PMID: 31855092.
347. Kessler MD, Loesch DP, Perry JA, Heard-Costa NL, Taliun D, Cade BE, Wang H, Daya M, Ziniti J, Datta S, Celedón JC, Soto-Quiros ME, Avila L, Weiss ST, Barnes K, Redline SS, Vasan RS, Johnson AD, Mathias RA, Hernandez R, Wilson JG, Nickerson DA, Abecasis G, Browning SR, Zöllner S, O'Connell JR, Mitchell BD; National Heart, Lung, and Blood Institute Trans-Omics for Precision Medicine (TOPMed) Consortium; **TOPMed Population Genetics Working Group**, O'Connor TD. De novo mutations across 1,465 diverse genomes reveal mutational insights and reductions in the Amish founder population. *Proc Natl Acad Sci U S A*. 2020 Feb 4;117(5):2560-2569. doi: 10.1073/pnas.1902766117. Epub 2020 Jan 21. PMID: 31964835; PMCID: PMC7007577.
348. Zekavat SM, Ruotsalainen S, Handsaker RE, Alver M, Bloom J, Poterba T, Seed C, Ernst J, Chaffin M, Engreitz J, Peloso GM, Manichaikul A, Yang C, Ryan KA, Fu M, Johnson WC, Tsai M, Budoff M, Vasan RS, Cupples LA, Rotter JI, Rich SS, Post W, Mitchell BD, Correa A, Metspalu A, Wilson JG, Salomaa V, Kellis M, Daly MJ, Neale BM, McCarroll S, Surakka I, Esko T, Ganna A, Ripatti S, Kathiresan S, Natarajan P; **NHLBI TOPMed Lipids Working Group**. Publisher Correction: Deep coverage whole genome sequences and plasma lipoprotein(a) in individuals of European and African ancestries. *Nat Commun*. 2020 Apr 1;11(1):1715. doi: 10.1038/s41467-020-15236-6. Erratum for: *Nat Commun*. 2018 Jul 4;9(1):2606. PMID: 32238811; PMCID: PMC7113276.
349. Shang L, Smith JA, Zhao W, Kho M, Turner ST, Mosley TH, **Kardia SLR**, Zhou X. Genetic Architecture of Gene Expression in European and African Americans: An eQTL Mapping Study in GENOA. *Am J Hum Genet*. 2020 Apr 2;106(4):496-512. doi: 10.116/j.ajhg.2020.03.002. Epub 2020 Mar 26. PMID: 32220292; PMCID: PMC7118581.

350. de Las Fuentes L, Sung YJ, Noordam R, Winkler T, Feitosa MF, Schwander K, Bentley AR, Brown MR, Guo X, Manning A, Chasman DI, Aschard H, Bartz TM, Bielak LF, Campbell A, Cheng CY, Dorajoo R, Hartwig FP, Horimoto ARVR, Li C, Li-Gao R, Liu Y, Marten J, Musani SK, Ntalla I, Rankinen T, Richard M, Sim X, Smith AV, Tajuddin SM, Tayo BO, Vojinovic D, Warren HR, Xuan D, Alver M, Boissel M, Chai JF, Chen X, Christensen K, Divers J, Evangelou E, Gao C, Girotto G, Harris SE, He M, Hsu FC, Kühnel B, Laguzzi F, Li X, Lyytikäinen LP, Nolte IM, Poveda A, Rauramaa R, Riaz M, Rueedi R, Shu XO, Snieder H, Sofer T, Takeuchi F, Verweij N, Ware EB, Weiss S, Yanek LR, Amin N, Arking DE, Arnett DK, Bergmann S, Boerwinkle E, Brody JA, Broeckel U, Brumat M, Burke G, Cabrera CP, Canouil M, Chee ML, Chen YI, Coccia M, Connell J, de Silva HJ, de Vries PS, Eiriksdottir G, Faul JD, Fisher V, Forrester T, Fox EF, Friedlander Y, Gao H, Gigante B, Giulianini F, Gu CC, Gu D, Harris TB, He J, Heikkinen S, Heng CK, Hunt S, Ikram MA, Irvin MR, Kähönen M, Kavousi M, Khor CC, Kilpeläinen TO, Koh WP, Komulainen P, Kraja AT, Krieger JE, Langefeld CD, Li Y, Liang J, Liewald DCM, Liu CT, Liu J, Lohman KK, Mägi R, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mook-Kanamori DO, Nalls MA, Nelson CP, Norris JM, O'Connell J, Ogunnisiyi A, Padmanabhan S, Palmer ND, Pedersen NL, Perls T, Peters A, Petersmann A, Peyser PA, Polasek O, Porteous DJ, Raffel LJ, Rice TK, Rotter JI, Rudan I, Rueda-Ochoa OL, Sabanayagam C, Salako BL, Schreiner PJ, Shikany JM, Sidney SS, Sims M, Sitlani CM, Smith JA, Starr JM, Strauch K, Swertz MA, Teumer A, Tham YC, Uitterlinden AG, Vaidya D, van der Ende MY, Waldenberger M, Wang L, Wang YX, Wei WB, Weir DR, Wen W, Yao J, Yu B, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Bowden DW, Deary IJ, Dörr M, Esko T, Freedman BI, Froguel P, Gasparini P, Gieger C, Jonas JB, Kammerer CM, Kato N, Lakka TA, Leander K, Lehtimäki T; Lifelines Cohort Study, Magnusson PKE, Marques-Vidal P, Penninx BWJH, Samani NJ, van der Harst P, Wagenknecht LE, Wu T, Zheng W, Zhu X, Bouchard C, Cooper RS, Correa A, Evans MK, Gudnason V, Hayward C, Horta BL, Kelly TN, Kritchevsky SB, Levy D, Palmas WR, Pereira AC, Province MM, Psaty BM, Ridker PM, Rotimi CN, Tai ES, van Dam RM, van Duijn CM, Wong TY, Rice K, Gauderman WJ, Morrison AC, North KE, **Kardia SLR**, Caulfield MJ, Elliott P, Munroe PB, Franks PW, Rao DC, Fornage M. Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci. *Mol Psychiatry*. 2020 May 5:10.1038/s41380-020-0719-3. doi: 10.1038/s41380-020-0719-3. Epub ahead of print. PMID: 32372009; PMCID: PMC7641978.
351. Wu P, Rybin D, Bielak LF, Feitosa MF, Franceschini N, Li Y, Lu Y, Marten J, Musani SK, Noordam R, Raghavan S, Rose LM, Schwander K, Smith AV, Tajuddin SM, Vojinovic D, Amin N, Arnett DK, Bottinger EP, Demirkiran A, Florez JC, Ghanbari M, Harris TB, Launer LJ, Liu J, Liu J, Mook-Kanamori DO, Murray AD, Nalls MA, Peyser PA, Uitterlinden AG, Voortman T, Bouchard C, Chasman D, Correa A, de Mutsert R, Evans MK, Gudnason V, Hayward C, Kao L, **Kardia SLR**, Kooperberg C, Loos RJF, Province MM, Rankinen T, Redline S, Ridker PM, Rotter JI, Siscovick D, Smith BH, van Duijn C, Zonderman AB, Rao DC, Wilson JG, Dupuis J, Meigs JB, Liu CT, Vassy JL. Smoking-by-genotype interaction in type 2 diabetes risk and fasting glucose. *PLoS One*. 2020 May 7;15(5):e0230815. doi: 10.1371/journal.pone.0230815. PMID: 32379818; PMCID: PMC7205201.

352. Ni X, Zhou M, Wang H, He KY, Broeckel U, Hanis C, **Kardia S**, Redline S, Cooper RS, Tang H, Zhu X. Detecting fitness epistasis in recently admixed populations with genome-wide data. *BMC Genomics*. 2020 Jul 11;21(1):476. doi: 10.1186/s12864-020-06874-7. PMID: 32652930; PMCID: PMC7353720.
353. Brown KM, Diez-Roux AV, Smith JA, Needham BL, Mukherjee B, Ware EB, Liu Y, Cole SW, Seeman TE, **Kardia SLR**. Social regulation of inflammation related gene expression in the multi-ethnic study of atherosclerosis. *Psychoneuroendocrinology*. 2020 Jul;117:104654. doi: 10.1016/j.psyneuen.2020.104654. Epub 2020 May 7. PMID: 32387875.
354. Wang Z, Chen H, Bartz TM, Bielak LF, Chasman DI, Feitosa MF, Franceschini N, Guo X, Lim E, Noordam R, Richard MA, Wang H, Cade B, Cupples LA, de Vries PS, Giulanini F, Lee J, Lemaitre RN, Martin LW, Reiner AP, Rich SS, Schreiner PJ, Sidney S, Sitlani CM, Smith JA, Willems van Dijk K, Yao J, Zhao W, Fornage M, **Kardia SLR**, Kooperberg C, Liu CT, Mook-Kanamori DO, Province MA, Psaty BM, Redline S, Ridker PM, Rotter JI, Boerwinkle E, Morrison AC; CHARGE Gene-Lifestyle Interactions Working Group. Role of Rare and Low-Frequency Variants in Gene-Alcohol Interactions on Plasma Lipid Levels. *Circ Genom Precis Med*. 2020 Aug;13(4):e002772. doi: 10.1161/CIRCGEN.119.002772. Epub 2020 Jun 8. PMID: 32510982; PMCID: PMC7442680.
355. Smith JA, Zhao W, Yu M, Rumfelt KE, Moorjani P, Ganna A, Dey AB, Lee J, **Kardia SLR**. Association Between Episodic Memory and Genetic Risk Factors for Alzheimer's Disease in South Asians from the Longitudinal Aging Study in India-Diagnostic Assessment of Dementia (LASI-DAD). *J Am Geriatr Soc*. 2020 Aug;68 Suppl 3(Suppl 3):S45-S53. doi: 10.1111/jgs.16735. PMID: 32815605; PMCID: PMC7507858.
356. Li X, Li Z, Zhou H, Gaynor SM, Liu Y, Chen H, Sun R, Dey R, Arnett DK, Aslibekyan S, Ballantyne CM, Bielak LF, Blangero J, Boerwinkle E, Bowden DW, Broome JG, Conomos MP, Correa A, Cupples LA, Curran JE, Freedman BI, Guo X, Hindy G, Irvin MR, Kardia SLR, Kathiresan S, Khan AT, Kooperberg CL, Laurie CC, Liu XS, Mahaney MC, Manichaikul AW, Martin LW, Mathias RA, McGarvey ST, Mitchell BD, Montasser ME, Moore JE, Morrison AC, O'Connell JR, Palmer ND, Pampana A, Peralta JM, Peyser PA, Psaty BM, Redline S, Rice KM, Rich SS, Smith JA, Tiwari HK, Tsai MY, Vasan RS, Wang FF, Weeks DE, Weng Z, Wilson JG, Yanek LR; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; **TOPMed Lipids Working Group**, Neale BM, Sunyaev SR, Abecasis GR, Rotter JI, Willer CJ, Peloso GM, Natarajan P, Lin X. Dynamic incorporation of multiple in silico functional annotations empowers rare variant association analysis of large whole-genome sequencing studies at scale. *Nat Genet*. 2020 Sep;52(9):969-983. doi: 10.1038/s41588-020-0676-4. Epub 2020 Aug 24. PMID: 32839606; PMCID: PMC7483769.
357. Song Y, Zhou X, Zhang M, Zhao W, Liu Y, **Kardia SLR**, Roux AVD, Needham BL, Smith JA, Mukherjee B. Bayesian shrinkage estimation of high dimensional causal mediation effects in omics studies. *Biometrics*. 2020 Sep;76(3):700-710. doi: 10.1111/biom.13189. Epub 2019 Dec 19. PMID: 31733066; PMCID: PMC7228845.

358. Kho M, Zhao W, Ratliff SM, Ammous F, Mosley TH, Shang L, **Kardia SLR**, Zhou X, Smith JA. Epigenetic loci for blood pressure are associated with hypertensive target organ damage in older African Americans from the genetic epidemiology network of Arteriopathy (GENOA) study. *BMC Med Genomics*. 2020 Sep 11;13(1):131. doi: 10.1186/s12920-020-00791-0. PMID: 32917208; PMCID: PMC7488710.
359. Kho M, Smith JA, Verweij N, Shang L, Ryan KA, Zhao W, Ware EB, Gansevoort RT, Irvin MR, Lee JE, Turner ST, Sung J, van der Harst P, Arnett DK, Baylin A, Park SK, Seo YA, Kelly KM, Chang YPC, Zhou X, Lieske JC, **Kardia SLR**. Genome-Wide Association Meta-Analysis of Individuals of European Ancestry Identifies Suggestive Loci for Sodium Intake, Potassium Intake, and Their Ratio Measured from 24-Hour or Half-Day Urine Samples. *J Nutr*. 2020 Oct 12;150(10):2635-2645. doi: 10.1093/jn/nxaa241. PMID: 32840624; PMCID: PMC7549298.
360. Erzurumluoglu AM, Liu M, Jackson VE, Barnes DR, Datta G, Melbourne CA, Young R, Batini C, Surendran P, Jiang T, Adnan SD, Afafq S, Agrawal A, Altmaier E, Antoniou AC, Asselbergs FW, Baumbach C, Bierut L, Bertelsen S, Boehnke M, Bots ML, Brazel DM, Chambers JC, Chang-Claude J, Chen C, Corley J, Chou YL, David SP, de Boer RA, de Leeuw CA, Dennis JG, Dominiczak AF, Dunning AM, Easton DF, Eaton C, Elliott P, Evangelou E, Faul JD, Foroud T, Goate A, Gong J, Grabe HJ, Haessler J, Haiman C, Hallmans G, Hammerschlag AR, Harris SE, Hattersley A, Heath A, Hsu C, Iacono WG, Kanoni S, Kapoor M, Kaprio J, **Kardia SL**, Karpe F, Kontto J, Kooner JS, Kooperberg C, Kuulasmaa K, Laakso M, Lai D, Langenberg C, Le N, Lettre G, Loukola A, Luan J, Madden PAF, Mangino M, Marioni RE, Marouli E, Marten J, Martin NG, McGue M, Michailidou K, Mihailov E, Moayyeri A, Moitry M, Müller-Nurasyid M, Naheed A, Nauck M, Neville MJ, Nielsen SF, North K, Perola M, Pharoah PDP, Pistis G, Polderman TJ, Posthuma D, Poulter N, Qaiser B, Rasheed A, Reiner A, Renström F, Rice J, Rohde R, Rolandsson O, Samani NJ, Samuel M, Schlessinger D, Scholte SH, Scott RA, Sever P, Shao Y, Shrine N, Smith JA, Starr JM, Stirrups K, Stram D, Stringham HM, Tachmazidou I, Tardif JC, Thompson DJ, Tindle HA, Tragante V, Trompet S, Turcot V, Tyrrell J, Vaartjes I, van der Leij AR, van der Meer P, Varga TV, Verweij N, Völzke H, Wareham NJ, Warren HR, Weir DR, Weiss S, Wetherill L, Yaghootkar H, Yavas E, Jiang Y, Chen F, Zhan X, Zhang W, Zhao W, Zhou K, Amouyel P, Blankenberg S, Caulfield MJ, Chowdhury R, Cucca F, Deary IJ, Deloukas P, Di Angelantonio E, Ferrario M, Ferrières J, Franks PW, Frayling TM, Frossard P, Hall IP, Hayward C, Jansson JH, Jukema JW, Kee F, Männistö S, Metspalu A, Munroe PB, Nordestgaard BG, Palmer CNA, Salomaa V, Sattar N, Spector T, Strachan DP; Understanding Society Scientific Group, EPIC-CVD, GSCAN, Consortium for Genetics of Smoking Behaviour, CHD Exome+ consortium, van der Harst P, Zeggini E, Saleheen D, Butterworth AS, Wain LV, Abecasis GR, Danesh J, Tobin MD, Vrieze S, Liu DJ, Howson JMM. Meta-analysis of up to 622,409 individuals identifies 40 novel smoking behaviour associated genetic loci. *Mol Psychiatry*. 2020 Oct;25(10):2392-2409. doi: 10.1038/s41380-018-0313-0. Epub 2019 Jan 7. PMID: 30617275; PMCID: PMC7515840.

361. Modell SM, **Kardia SLR**. Religion as a Health Promoter During the 2019/2020 COVID Outbreak: View from Detroit. *J Relig Health*. 2020 Oct;59(5):2243-2255. doi: 10.1007/s10943-020-01052-1. PMID: 32548832; PMCID: PMC7297133.
362. Bick AG, Weinstock JS, Nandakumar SK, Fulco CP, Bao EL, Zekavat SM, Szeto MD, Liao X, Leventhal MJ, Nasser J, Chang K, Laurie C, Burugula BB, Gibson CJ, Lin AE, Taub MA, Aguet F, Ardlie K, Mitchell BD, Barnes KC, Moscati A, Fornage M, Redline S, Psaty BM, Silverman EK, Weiss ST, Palmer ND, Vasan RS, Burchard EG, **Kardia SLR**, He J, Kaplan RC, Smith NL, Arnett DK, Schwartz DA, Correa A, de Andrade M, Guo X, Konkle BA, Custer B, Peralta JM, Gui H, Meyers DA, McGarvey ST, Chen IY, Shoemaker MB, Peyser PA, Broome JG, Gogarten SM, Wang FF, Wong Q, Montasser ME, Daya M, Kenny EE, North KE, Launer LJ, Cade BE, Bis JC, Cho MH, Lasky-Su J, Bowden DW, Cupples LA, Mak ACY, Becker LC, Smith JA, Kelly TN, Aslibekyan S, Heckbert SR, Tiwari HK, Yang IV, Heit JA, Lubitz SA, Johnsen JM, Curran JE, Wenzel SE, Weeks DE, Rao DC, Darbar D, Moon JY, Tracy RP, Buth EJ, Rafaels N, Loos RJF, Durda P, Liu Y, Hou L, Lee J, Kachroo P, Freedman BI, Levy D, Bielak LF, Hixson JE, Floyd JS, Whitsel EA, Ellinor PT, Irvin MR, Fingerlin TE, Raffield LM, Armasu SM, Wheeler MM, Sabino EC, Blangero J, Williams LK, Levy BD, Sheu WH, Roden DM, Boerwinkle E, Manson JE, Mathias RA, Desai P, Taylor KD, Johnson AD; NHLBI Trans-Omics for Precision Medicine Consortium, Auer PL, Kooperberg C, Laurie CC, Blackwell TW, Smith AV, Zhao H, Lange E, Lange L, Rich SS, Rotter JI, Wilson JG, Scheet P, Kitzman JO, Lander ES, Engreitz JM, Ebert BL, Reiner AP, Jaiswal S, Abecasis G, Sankaran VG, Kathiresan S, Natarajan P. Inherited causes of clonal haematopoiesis in 97,691 whole genomes. *Nature*. 2020 Oct;586(7831):763-768. doi: 10.1038/s41586-020-2819-2. Epub 2020 Oct 14. PMID: 33057201.
363. Ammous F, Zhao W, Ratliff SM, Kho M, Shang L, Jones AC, Chaudhary NS, Tiwari HK, Irvin MR, Arnett DK, Mosley TH, Bielak LF, **Kardia SLR**, Zhou X, Smith J. Epigenome-wide association study identifies DNA methylation sites associated with target organ damage in older African Americans. *Epigenetics*. 2020 Oct 26:1-14. doi: 10.1080/15592294.2020.1827717. Epub ahead of print. PMID: 33100131.
364. Trinidad MG, Platt J, **Kardia SLR**. The public's comfort with sharing health data with third-party commercial companies. *Humanit Soc Sci Commun*. 2020;7(1):149. doi: 10.1057/s41599-020-00641-5. Epub 2020 Nov 11. PMID: 34337435; PMCID: PMC8320359.
365. Nong P, Raj M, Creary M, **Kardia SLR**, Platt JE. Patient-Reported Experiences of Discrimination in the US Health Care System. *JAMA Netw Open*. 2020 Dec 1;3(12):e2029650. doi: 10.1001/jamanetworkopen.2020.29650. PMID: 33320264; PMCID: PMC7739133.
366. Surendran P, Feofanova EV, Lahrouchi N, Ntalla I, Karthikeyan S, Cook J, Chen L, Mifsud B, Yao C, Kraja AT, Cartwright JH, Hellwege JN, Giri A, Tragante V, Thorleifsson G, Liu DJ, Prins BP, Stewart ID, Cabrera CP, Eales JM, Akbarov A, Auer PL, Bielak LF, Bis JC, Braithwaite VS, Brody JA, Daw EW, Warren HR, Drenos F, Nielsen SF, Faul JD, Fauman

EB, Fava C, Ferreira T, Foley CN, Franceschini N, Gao H, Giannakopoulou O, Julianini F, Gudbjartsson DF, Guo X, Harris SE, Havulinna AS, Helgadottir A, Huffman JE, Hwang SJ, Kanoni S, Kontto J, Larson MG, Li-Gao R, Lindström J, Lotta LA, Lu Y, Luan J, Mahajan A, Mallerba G, Masca NGD, Mei H, Menni C, Mook-Kanamori DO, Mosen-Ansorena D, Müller-Nurasyid M, Paré G, Paul DS, Perola M, Poveda A, Rauramaa R, Richard M, Richardson TG, Sepúlveda N, Sim X, Smith AV, Smith JA, Staley JR, Stanáková A, Sulem P, Thériault S, Thorsteinsdóttir U, Trompet S, Varga TV, Velez Edwards DR, Veronesi G, Weiss S, Willems SM, Yao J, Young R, Yu B, Zhang W, Zhao JH, Zhao W, Zhao W, Evangelou E, Aeschbacher S, Asllanaj E, Blankenberg S, Bonnycastle LL, Bork-Jensen J, Brandislund I, Braund PS, Burgess S, Cho K, Christensen C, Connell J, Mutsert R, Dominiczak AF, Dörr M, Eiriksdóttir G, Farmaki AE, Gaziano JM, Grarup N, Grove ML, Hallmans G, Hansen T, Have CT, Heiss G, Jørgensen ME, Jousilahti P, Kajantie E, Kamat M, Käräjämäki A, Karpe F, Koistinen HA, Kovacsy CP, Kuulasmaa K, Laatikainen T, Lannfelt L, Lee IT, Lee WJ; LifeLines Cohort Study; Linneberg A, Martin LW, Moitry M, Nadkarni G, Neville MJ, Palmer CNA, Papanicolaou GJ, Pedersen O, Peters J, Poulter N, Rasheed A, Rasmussen KL, Rayner NW, Mägi R, Renström F, Rettig R, Rossouw J, Schreiner PJ, Sever PS, Sigurdsson EL, Skaaby T, Sun YV, Sundstrom J, Thorgeirsson G, Esko T, Trabetti E, Tsao PS, Tuomi T, Turner ST, Tzoulaki I, Vaartjes I, Vergnaud AC, Willer CJ, Wilson PWF, Witte DR, Yonova-Doing E, Zhang H, Aliya N, Almgren P, Amouyel P, Asselbergs FW, Barnes MR, Blakemore AI, Boehnke M, Bots ML, Bottinger EP, Buring JE, Chambers JC, Chen YI, Chowdhury R, Conen D, Correa A, Davey Smith G, Boer RA, Deary IJ, Dedoussis G, Deloukas P, Di Angelantonio E, Elliott P; EPIC-CVD; EPIC-InterAct; Felix SB, Ferrières J, Ford I, Fornage M, Franks PW, Franks S, Frossard P, Gambaro G, Gaunt TR, Groop L, Gudnason V, Harris TB, Hayward C, Hennig BJ, Herzig KH, Ingelsson E, Tuomilehto J, Järvelin MR, Jukema JW, **Kardia SLR**, Kee F, Kooner JS, Kooperberg C, Launer LJ, Lind L, Loos RJF, Majumder AAS, Laakso M, McCarthy MI, Melander O, Mohlke KL, Murray AD, Nordestgaard BG, Orho-Melander M, Packard CJ, Padmanabhan S, Palmas W, Polasek O, Porteous DJ, Prentice AM, Province MA, Relton CL, Rice K, Ridker PM, Rolandsson O, Rosendaal FR, Rotter JI, Rudan I, Salomaa V, Samani NJ, Sattar N, Sheu WH, Smith BH, Soranzo N, Spector TD, Starr JM, Sebert S, Taylor KD, Lakka TA, Timpson NJ, Tobin MD; Understanding Society Scientific Group; van der Harst P, van der Meer P, Ramachandran VS, Verweij N, Virtamo J, Völker U, Weir DR, Zeggini E, Charchar FJ; Million Veteran Program; Wareham NJ, Langenberg C, Tomaszewski M, Butterworth AS, Caulfield MJ, Danesh J, Edwards TL, Holm H, Hung AM, Lindgren CM, Liu C, Manning AK, Morris AP, Morrison AC, O'Donnell CJ, Psaty BM, Saleheen D, Stefansson K, Boerwinkle E, Chasman DI, Levy D, Newton-Cheh C, Munroe PB, Howson JMM. Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals. Nat Genet. 2020 Dec;52(12):1314-1332. doi: 10.1038/s41588-020-00713-x. Epub 2020 Nov 23. Erratum in: Nat Genet. 2021 May;53(5):762. PMID: 33230300; PMCID: PMC7610439.

367. Sargurupremraj M, Suzuki H, Jian X, Sarnowski C, Evans TE, Bis JC, Eiriksdóttir G, Sakae S, Terzikhan N, Habes M, Zhao W, Armstrong NJ, Hofer E, Yanek LR, Hagenaars SP, Kumar RB, van den Akker EB, McWhirter RE, Trompet S, Mishra A, Saba Y, Satizabal CL, Beaudet G, Petit L, Tsuchida A, Zago L, Schilling S, Sigurdsson S,

Gottesman RF, Lewis CE, Aggarwal NT, Lopez OL, Smith JA, Valdés Hernández MC, van der Grond J, Wright MJ, Knol MJ, Dörr M, Thomson RJ, Bordes C, Le Grand Q, Duperron MG, Smith AV, Knopman DS, Schreiner PJ, Evans DA, Rotter JI, Beiser AS, Maniega SM, Beekman M, Trollor J, Stott DJ, Vernooij MW, Wittfeld K, Niessen WJ, Soumaré A, Boerwinkle E, Sidney S, Turner ST, Davies G, Thalamuthu A, Völker U, van Buchem MA, Bryan RN, Dupuis J, Bastin ME, Ames D, Teumer A, Amouyel P, Kwok JB, Bülow R, Deary IJ, Schofield PR, Brodaty H, Jiang J, Tabara Y, Setoh K, Miyamoto S, Yoshida K, Nagata M, Kamatani Y, Matsuda F, Psaty BM, Bennett DA, De Jager PL, Mosley TH, Sachdev PS, Schmidt R, Warren HR, Evangelou E, Trégouët DA; International Network against Thrombosis (INVENT) Consortium; International Headache Genomics Consortium (IHGC); Ikram MA, Wen W, DeCarli C, Srikanth VK, Jukema JW, Slagboom EP, **Kardia SLR**, Okada Y, Mazoyer B, Wardlaw JM, Nyquist PA, Mather KA, Grabe HJ, Schmidt H, Van Duijn CM, Gudnason V, Longstreth WT Jr, Launer LJ, Lathrop M, Seshadri S, Tzourio C, Adams HH, Matthews PM, Fornage M, Debette S. Cerebral small vessel disease genomics and its implications across the lifespan. *Nat Commun.* 2020 Dec 8;11(1):6285. doi: 10.1038/s41467-020-19111-2. PMID: 33293549; PMCID: PMC7722866.

368. Raj M, De Vries R, Nong P, **Kardia SLR**, Platt JE. Do people have an ethical obligation to share their health information? Comparing narratives of altruism and health information sharing in a nationally representative sample. *PLoS One.* 2020 Dec 31;15(12):e0244767. doi: 10.1371/journal.pone.0244767. PMID: 33382835; PMCID: PMC7774955.
369. Kahali B, Chen Y, Feitosa MF, Bielak LF, O'Connell JR, Musani SK, Hegde Y, Chen Y, Stetson LC, Guo X, Fu YP, Smith AV, Ryan KA, Eiriksdottir G, Cohain AT, Allison M, Bakshi A, Bowden DW, Budoff MJ, Carr JJ, Carskadon S, Chen YI, Correa A, Crudup BF, Du X, Harris TB, Yang J, **Kardia SLR**, Launer LJ, Liu J, Mosley TH, Norris JM, Terry JG, Palanisamy N, Schadt EE, O'Donnell CJ, Yerges-Armstrong LM, Rotter JI, Wagenknecht LE, Handelman SK, Gudnason V, Province MA, Peyser PA, Halligan B, Palmer ND, Speliotes EK. A Noncoding Variant Near PPP1R3B Promotes Liver Glycogen Storage and MetS, but Protects Against Myocardial Infarction. *J Clin Endocrinol Metab.* 2021 Jan 23;106(2):372-387. doi: 10.1210/clinem/dgaa855. PMID: 33231259; PMCID: PMC7823249.
370. Lagou V, Mägi R, Hottenga JJ, Grallert H, Perry JRB, Bouatia-Naji N, Marullo L, Rybin D, Jansen R, Min JL, Dimas AS, Ulrich A, Zudina L, Gådin JR, Jiang L, Faggian A, Bonnefond A, Fadista J, Stathopoulou MG, Isaacs A, Willems SM, Navarro P, Tanaka T, Jackson AU, Montasser ME, O'Connell JR, Bielak LF, Webster RJ, Saxena R, Stafford JM, Pourcain BS, Timpson NJ, Salo P, Shin SY, Amin N, Smith AV, Li G, Verweij N, Goel A, Ford I, Johnson PCD, Johnson T, Kapur K, Thorleifsson G, Strawbridge RJ, Rasmussen-Torvik LJ, Esko T, Mihailov E, Fall T, Fraser RM, Mahajan A, Kanoni S, Giedraitis V, Kleber ME, Silbernagel G, Meyer J, Müller-Nurasyid M, Ganna A, Sarin AP, Yengo L, Shungin D, Luan J, Horikoshi M, An P, Sanna S, Boettcher Y, Rayner NW, Nolte IM, Zemunik T, Iperen EV, Kovacs P, Hastie ND, Wild SH, McLachlan S, Campbell S, Polasek O, Carlson O, Egan J, Kiess W, Willemse G, Kuusisto J, Laakso M, Dimitriou M, Hicks AA, Rauramaa R, Bandinelli S, Thorand B, Liu Y, Miljkovic I, Lind L, Doney

A, Perola M, Hingorani A, Kivimaki M, Kumari M, Bennett AJ, Groves CJ, Herder C, Koistinen HA, Kinnunen L, Faire U, Bakker SJL, Uusitupa M, Palmer CNA, Jukema JW, Sattar N, Pouta A, Snieder H, Boerwinkle E, Pankow JS, Magnusson PK, Krus U, Scapoli C, de Geus EJCN, Blüher M, Wolffensbuttel BHR, Province MA, Abecasis GR, Meigs JB, Hovingh GK, Lindström J, Wilson JF, Wright AF, Dedoussis GV, Bornstein SR, Schwarz PEH, Tönjes A, Winkelmann BR, Boehm BO, März W, Metspalu A, Price JF, Deloukas P, Körner A, Lakka TA, Keinanen-Kiukaanniemi SM, Saaristo TE, Bergman RN, Tuomilehto J, Wareham NJ, Langenberg C, Männistö S, Franks PW, Hayward C, Vitart V, Kaprio J, Visvikis-Siest S, Balkau B, Altshuler D, Rudan I, Stumvoll M, Campbell H, van Duijn CM, Gieger C, Illig T, Ferrucci L, Pedersen NL, Pramstaller PP, Boehnke M, Frayling TM, Shuldiner AR, Peyser PA, **Kardia SLR**, Palmer LJ, Penninx BW, Meneton P, Harris TB, Navis G, Harst PV, Smith GD, Forouhi NG, Loos RJF, Salomaa V, Soranzo N, Boomsma DI, Groop L, Tuomi T, Hofman A, Munroe PB, Gudnason V, Siscovick DS, Watkins H, Lecoeur C, Vollenweider P, Franco-Cereceda A, Eriksson P, Jarvelin MR, Stefansson K, Hamsten A, Nicholson G, Karpe F, Dermitzakis ET, Lindgren CM, McCarthy MI, Froguel P, Kaakinen MA, Lyssenko V, Watanabe RM, Ingelsson E, Florez JC, Dupuis J, Barroso I, Morris AP, Prokopenko I; Meta-Analyses of Glucose and Insulin-related traits Consortium (MAGIC). Sex-dimorphic genetic effects and novel loci for fasting glucose and insulin variability. *Nat Commun.* 2021 Jan 5;12(1):24. doi: 10.1038/s41467-020-19366-9. Erratum in: *Nat Commun.* 2021 Feb 8;12(1):995. PMID: 33402679; PMCID: PMC7785747.

371. Lin BM, Grinde KE, Brody JA, Breeze CE, Raffield LM, Mychaleckyj JC, Thornton TA, Perry JA, Baier LJ, de Las Fuentes L, Guo X, Heavner BD, Hanson RL, Hung YJ, Qian H, Hsiung CA, Hwang SJ, Irvin MR, Jain D, Kelly TN, Kobes S, Lange L, Lash JP, Li Y, Liu X, Mi X, Musani SK, Papanicolaou GJ, Parsa A, Reiner AP, Salimi S, Sheu WH, Shuldiner AR, Taylor KD, Smith AV, Smith JA, Tin A, Vaidya D, Wallace RB, Yamamoto K, Sakaue S, Matsuda K, Kamatani Y, Momozawa Y, Yanek LR, Young BA, Zhao W, Okada Y, Abecasis G, Psaty BM, Arnett DK, Boerwinkle E, Cai J, Yii-Der Chen I, Correa A, Cupples LA, He J, **Kardia SL**, Kooperberg C, Mathias RA, Mitchell BD, Nickerson DA, Turner ST, Vasan RS, Rotter JI, Levy D, Kramer HJ, Köttgen A, NHLBI Trans-Omics For Precision Medicine TOPMed Consortium, TOPMed Kidney Working Group, Rich SS, Lin DY, Browning SR, Franceschini N. Whole genome sequence analyses of eGFR in 23,732 people representing multiple ancestries in the NHLBI trans-omics for precision medicine (TOPMed) consortium. *EBioMedicine.* 2021 Jan;63:103157. doi: 10.1016/j.ebiom.2020.103157. Epub 2021 Jan 6. PMID: 33418499; PMCID: PMC7804602.
372. Taliun D, Harris DN, Kessler MD, Carlson J, Szpiech ZA, Torres R, Taliun SAG, Corvelo A, Gogarten SM, Kang HM, Pitsillides AN, LeFaive J, Lee SB, Tian X, Browning BL, Das S, Emde AK, Clarke WE, Loesch DP, Shetty AC, Blackwell TW, Smith AV, Wong Q, Liu X, Conomos MP, Bobo DM, Aguet F, Albert C, Alonso A, Ardlie KG, Arking DE, Aslibekyan S, Auer PL, Barnard J, Barr RG, Barwick L, Becker LC, Beer RL, Benjamin EJ, Bielak LF, Blangero J, Boehnke M, Bowden DW, Brody JA, Burchard EG, Cade BE, Casella JF, Chalazan B, Chasman DI, Chen YI, Cho MH, Choi SH, Chung MK, Clish CB, Correa A, Curran JE, Custer B, Darbar D, Daya M, de Andrade M, DeMeo DL, Dutcher SK, Ellinor PT, Emery LS, Eng C, Fatkin D, Fingerlin T, Forer L, Fornage M, Franceschini

N, Fuchsberger C, Fullerton SM, Germer S, Gladwin MT, Gottlieb DJ, Guo X, Hall ME, He J, Heard-Costa NL, Heckbert SR, Irvin MR, Johnsen JM, Johnson AD, Kaplan R, **Kardia SLR**, Kelly T, Kelly S, Kenny EE, Kiel DP, Klemmer R, Konkle BA, Kooperberg C, Köttgen A, Lange LA, Lasky-Su J, Levy D, Lin X, Lin KH, Liu C, Loos RJF, Garman L, Gerszten R, Lubitz SA, Lunetta KL, Mak ACY, Manichaikul A, Manning AK, Mathias RA, McManus DD, McGarvey ST, Meigs JB, Meyers DA, Mikulla JL, Minear MA, Mitchell BD, Mohanty S, Montasser ME, Montgomery C, Morrison AC, Murabito JM, Natale A, Natarajan P, Nelson SC, North KE, O'Connell JR, Palmer ND, Pankratz N, Peloso GM, Peyser PA, Pleiness J, Post WS, Psaty BM, Rao DC, Redline S, Reiner AP, Roden D, Rotter JI, Ruczinski I, Sarnowski C, Schoenherr S, Schwartz DA, Seo JS, Seshadri S, Sheehan VA, Sheu WH, Shoemaker MB, Smith NL, Smith JA, Sotoodehnia N, Stilp AM, Tang W, Taylor KD, Telen M, Thornton TA, Tracy RP, Van Den Berg DJ, Vasan RS, Viaud-Martinez KA, Vrieze S, Weeks DE, Weir BS, Weiss ST, Weng LC, Willer CJ, Zhang Y, Zhao X, Arnett DK, Ashley-Koch AE, Barnes KC, Boerwinkle E, Gabriel S, Gibbs R, Rice KM, Rich SS, Silverman EK, Qasba P, Gan W; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; Papanicolaou GJ, Nickerson DA, Browning SR, Zody MC, Zöllner S, Wilson JG, Cupples LA, Laurie CC, Jaquish CE, Hernandez RD, O'Connor TD, Abecasis GR. Sequencing of 53,831 diverse genomes from the NHLBI TOPMed Program. *Nature*. 2021 Feb;590(7845):290-299. doi: 10.1038/s41586-021-03205-y. Epub 2021 Feb 10. PMID: 33568819; PMCID: PMC7875770.

373. Bick AG, Weinstock JS, Nandakumar SK, Fulco CP, Bao EL, Zekavat SM, Szeto MD, Liao X, Leventhal MJ, Nasser J, Chang K, Laurie C, Burugula BB, Gibson CJ, Niroula A, Lin AE, Taub MA, Aguet F, Ardlie K, Mitchell BD, Barnes KC, Moscati A, Fornage M, Redline S, Psaty BM, Silverman EK, Weiss ST, Palmer ND, Vasan RS, Burchard EG, **Kardia SLR**, He J, Kaplan RC, Smith NL, Arnett DK, Schwartz DA, Correa A, de Andrade M, Guo X, Konkle BA, Custer B, Peralta JM, Gui H, Meyers DA, McGarvey ST, Chen IY, Shoemaker MB, Peyser PA, Broome JG, Gogarten SM, Wang FF, Wong Q, Montasser ME, Daya M, Kenny EE, North KE, Launer LJ, Cade BE, Bis JC, Cho MH, Lasky-Su J, Bowden DW, Cupples LA, Mak ACY, Becker LC, Smith JA, Kelly TN, Aslibekyan S, Heckbert SR, Tiwari HK, Yang IV, Heit JA, Lubitz SA, Johnsen JM, Curran JE, Wenzel SE, Weeks DE, Rao DC, Darbar D, Moon JY, Tracy RP, Buth EJ, Rafaels N, Loos RJF, Durda P, Liu Y, Hou L, Lee J, Kachroo P, Freedman BI, Levy D, Bielak LF, Hixson JE, Floyd JS, Whitsel EA, Ellinor PT, Irvin MR, Fingerlin TE, Raffield LM, Armasu SM, Wheeler MM, Sabino EC, Blangero J, Williams LK, Levy BD, Sheu WH, Roden DM, Boerwinkle E, Manson JE, Mathias RA, Desai P, Taylor KD, Johnson AD; NHLBI Trans-Omics for Precision Medicine Consortium; Auer PL, Kooperberg C, Laurie CC, Blackwell TW, Smith AV, Zhao H, Lange E, Lange L, Rich SS, Rotter JI, Wilson JG, Scheet P, Kitzman JO, Lander ES, Engreitz JM, Ebert BL, Reiner AP, Jaiswal S, Abecasis G, Sankaran VG, Kathiresan S, Natarajan P. Author Correction: Inherited causes of clonal hematopoiesis in 97,691 whole genomes. *Nature*. 2021 Mar;591(7851):E27. doi: 10.1038/s41586-021-03280-1. Erratum for: *Nature*. 2020 Oct;586(7831):763-768. PMID: 33707633.

374. Bakulski KM, Vadari HS, Faul JD, Heeringa SG, **Kardia SLR**, Langa KM, Smith JA, Manly JJ, Mitchell CM, Benke KS, Ware EB. Cumulative Genetic Risk and APOE ε4 Are Independently Associated With Dementia Status in a Multiethnic, Population-Based Cohort. *Neurol Genet*. 2021 Mar 5;7(2):e576. doi: 10.1212/NXG.0000000000000576. PMID: 33688582; PMCID: PMC7938646.
375. Ammous F, Zhao W, Ratliff SM, Mosley TH, Bielak LF, Zhou X, Peyser PA, **Kardia SLR**, Smith JA. Epigenetic age acceleration is associated with cardiometabolic risk factors and clinical cardiovascular disease risk scores in African Americans. *Clin Epigenetics*. 2021 Mar 16;13(1):55. doi: 10.1186/s13148-021-01035-3. PMID: 33726838; PMCID: PMC7962278.
376. Graff M, Justice AE, Young KL, Marouli E, Zhang X, Fine RS, Lim E, Buchanan V, Rand K, Feitosa MF, Wojczynski MK, Yanek LR, Shao Y, Rohde R, Adeyemo AA, Aldrich MC, Allison MA, Ambrosone CB, Ambs S, Amos C, Arnett DK, Atwood L, Bandera EV, Bartz T, Becker DM, Berndt SI, Bernstein L, Bielak LF, Blot WJ, Bottinger EP, Bowden DW, Bradfield JP, Brody JA, Broeckel U, Burke G, Cade BE, Cai Q, Caporaso N, Carlson C, Carpten J, Casey G, Chanock SJ, Chen G, Chen M, Chen YI, Chen WM, Chesi A, Chiang CWK, Chu L, Coetzee GA, Conti DV, Cooper RS, Cushman M, Demerath E, Deming SL, Dimitrov L, Ding J, Diver WR, Duan Q, Evans MK, Falusi AG, Faul JD, Fornage M, Fox C, Freedman BI, Garcia M, Gillanders EM, Goodman P, Gottesman O, Grant SFA, Guo X, Hakonarson H, Haritunians T, Harris TB, Harris CC, Henderson BE, Hennis A, Hernandez DG, Hirschhorn JN, McNeill LH, Howard TD, Howard B, Hsing AW, Hsu YH, Hu JJ, Huff CD, Huo D, Ingles SA, Irvin MR, John EM, Johnson KC, Jordan JM, Kabagambe EK, Kang SJ, **Kardia SL**, Keating BJ, Kittles RA, Klein EA, Kolb S, Kolonel LN, Kooperberg C, Kuller L, Kutlar A, Lange L, Langefeld CD, Le Marchand L, Leonard H, Lettre G, Levin AM, Li Y, Li J, Liu Y, Liu Y, Liu S, Lohman K, Lotay V, Lu Y, Maixner W, Manson JE, McKnight B, Meng Y, Monda KL, Monroe K, Moore JH, Mosley TH, Mudgal P, Murphy AB, Nadukuru R, Nalls MA, Nathanson KL, Nayak U, N'Diaye A, Nemesure B, Neslund-Dudas C, Neuhouser ML, Nyante S, Ochs-Balcom H, Ogundiran TO, Ogunniyi A, Ojengbede O, Okut H, Olopade OI, Olshan A, Padhukasahasram B, Palmer J, Palmer CD, Palmer ND, Papanicolaou G, Patel SR, Pettaway CA, Peyser PA, Press MF, Rao DC, Rasmussen-Torvik LJ, Redline S, Reiner AP, Rhee SK, Rodriguez-Gil JL, Rotimi CN, Rotter JI, Ruiz-Narvaez EA, Rybicki BA, Salako B, Sale MM, Sanderson M, Schadt E, Schreiner PJ, Schurmann C, Schwartz AG, Shriner DA, Signorello LB, Singleton AB, Siscovick DS, Smith JA, Smith S, Speliotes E, Spitz M, Stanford JL, Stevens VL, Stram A, Strom SS, Sucheston L, Sun YV, Tajuddin SM, Taylor H, Taylor K, Tayo BO, Thun MJ, Tucker MA, Vaidya D, Van Den Berg DJ, Vedantam S, Vitolins M, Wang Z, Ware EB, Wassertheil-Smoller S, Weir DR, Wiencke JK, Williams SM, Williams LK, Wilson JG, Witte JS, Wrensch M, Wu X, Yao J, Zakai N, Zanetti K, Zemel BS, Zhao W, Zhao JH, Zheng W, Zhi D, Zhou J, Zhu X, Ziegler RG, Zmuda J, Zonderman AB, Psaty BM, Borecki IB, Cupples LA, Liu CT, Haiman CA, Loos R, Ng MCY, North KE. Discovery and fine-mapping of height loci via high-density imputation of GWASs in individuals of African ancestry. *Am J Hum Genet*. 2021 Apr 1;108(4):564-582. doi: 10.1016/j.ajhg.2021.02.011. Epub 2021 Mar 12. PMID: 33713608; PMCID: PMC8059339.

377. Natarajan P, Pampana A, Graham SE, Ruotsalainen SE, Perry JA, de Vries PS, Broome JG, Pirruccello JP, Honigberg MC, Aragam K, Wolford B, Brody JA, Antonacci-Fulton L, Arden M, Aslibekyan S, Assimes TL, Ballantyne CM, Bielak LF, Bis JC, Cade BE, Do R, Doddapaneni H, Emery LS, Hung YJ, Irvin MR, Khan AT, Lange L, Lee J, Lemaitre RN, Martin LW, Metcalf G, Montasser ME, Moon JY, Muzny D, O'Connell JR, Palmer ND, Peralta JM, Peyser PA, Stilp AM, Tsai M, Wang FF, Weeks DE, Yanek LR, Wilson JG, Abecasis G, Arnett DK, Becker LC, Blangero J, Boerwinkle E, Bowden DW, Chang YC, Chen YI, Choi WJ, Correa A, Curran JE, Daly MJ, Dutcher SK, Ellinor PT, Fornage M, Freedman BI, Gabriel S, Germer S, Gibbs RA, He J, Hveem K, Jarvik GP, Kaplan RC, **Kardia SLR**, Kenny E, Kim RW, Kooperberg C, Laurie CC, Lee S, Lloyd-Jones DM, Loos RJF, Lubitz SA, Mathias RA, Martinez KAV, McGarvey ST, Mitchell BD, Nickerson DA, North KE, Palotie A, Park CJ, Psaty BM, Rao DC, Redline S, Reiner AP, Seo D, Seo JS, Smith AV, Tracy RP, Vasan RS, Kathiresan S, Cupples LA, Rotter JI, Morrison AC, Rich SS, Ripatti S, Willer C; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; FinnGen; Peloso GM. Chromosome Xq23 is associated with lower atherogenic lipid concentrations and favorable cardiometabolic indices. *Nat Commun.* 2021 Apr 12;12(1):2182. doi: 10.1038/s41467-021-22339-1. PMID: 33846329; PMCID: PMC8042019.
378. Deelen J, Evans DS, Arking DE, Tesi N, Nygaard M, Liu X, Wojczynski MK, Biggs ML, van der Spek A, Atzmon G, Ware EB, Sarnowski C, Smith AV, Seppälä I, Cordell HJ, Dose J, Amin N, Arnold AM, Ayers KL, Barzilai N, Becker EJ, Beekman M, Blanché H, Christensen K, Christiansen L, Collerton JC, Cubaynes S, Cummings SR, Davies K, Debrabant B, Deleuze JF, Duncan R, Faul JD, Franceschi C, Galan P, Gudnason V, Harris TB, Huisman M, Hurme MA, Jagger C, Jansen I, Jylhä M, Kähönen M, Karasik D, **Kardia SLR**, Kingston A, Kirkwood TBL, Launer LJ, Lehtimäki T, Lieb W, Lytykäinen LP, Martin-Ruiz C, Min J, Nebel A, Newman AB, Nie C, Nohr EA, Orwoll ES, Perls TT, Province MA, Psaty BM, Raitakari OT, Reinders MJT, Robine JM, Rotter JI, Sebastiani P, Smith J, Sørensen TIA, Taylor KD, Uitterlinden AG, van der Flier W, van der Lee SJ, van Duijn CM, van Heemst D, Vaupel JW, Weir D, Ye K, Zeng Y, Zheng W, Holstege H, Kiel DP, Lunetta KL, Slagboom PE, Murabito JM. Publisher Correction: A meta-analysis of genome-wide association studies identifies multiple longevity genes. *Nat Commun.* 2021 Apr 23;12(1):2463. doi: 10.1038/s41467-021-22613-2. Erratum for: *Nat Commun.* 2019 Aug 14;10(1):3669. PMID: 33893282; PMCID: PMC8065049.
379. Umberfield EE, Jiang Y, Fenton SH, Stansbury C, Ford K, Crist K, **Kardia SLR**, Thomer AK, Harris MR. Lessons Learned for Identifying and Annotating Permissions in Clinical Consent Forms. *Appl Clin Inform.* 2021 May;12(3):429-435. doi: 10.1055/s-0041-1730032. Epub 2021 Jun 23. PMID: 34161986; PMCID: PMC8221844.
380. de Las Fuentes L, Sung YJ, Noordam R, Winkler T, Feitosa MF, Schwander K, Bentley AR, Brown MR, Guo X, Manning A, Chasman DI, Aschard H, Bartz TM, Bielak LF, Campbell A, Cheng CY, Dorajoo R, Hartwig FP, Horimoto ARVR, Li C, Li-Gao R, Liu Y, Marten J, Musani SK, Ntalla I, Rankinen T, Richard M, Sim X, Smith AV, Tajuddin SM, Tayo BO, Vojinovic D, Warren HR, Xuan D, Alver M, Boissel M, Chai JF, Chen X,

Christensen K, Divers J, Evangelou E, Gao C, Girotto G, Harris SE, He M, Hsu FC, Kühnel B, Laguzzi F, Li X, Lyytikäinen LP, Nolte IM, Poveda A, Rauramaa R, Riaz M, Rueedi R, Shu XO, Snieder H, Sofer T, Takeuchi F, Verweij N, Ware EB, Weiss S, Yanek LR, Amin N, Arking DE, Arnett DK, Bergmann S, Boerwinkle E, Brody JA, Broeckel U, Brumat M, Burke G, Cabrera CP, Canouil M, Chee ML, Chen YI, Cocca M, Connell J, de Silva HJ, de Vries PS, Eiriksdottir G, Faul JD, Fisher V, Forrester T, Fox EF, Friedlander Y, Gao H, Gigante B, Giulianini F, Gu CC, Gu D, Harris TB, He J, Heikkinen S, Heng CK, Hunt S, Ikram MA, Irvin MR, Kähönen M, Kavousi M, Khor CC, Kilpeläinen TO, Koh WP, Komulainen P, Kraja AT, Krieger JE, Langefeld CD, Li Y, Liang J, Liewald DCM, Liu CT, Liu J, Lohman KK, Mägi R, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mook-Kanamori DO, Nalls MA, Nelson CP, Norris JM, O'Connell J, Ogunnuyi A, Padmanabhan S, Palmer ND, Pedersen NL, Perls T, Peters A, Petersmann A, Peyser PA, Polasek O, Porteous DJ, Raffel LJ, Rice TK, Rotter JI, Rudan I, Rueda-Ochoa OL, Sabanayagam C, Salako BL, Schreiner PJ, Shikany JM, Sidney SS, Sims M, Sitlani CM, Smith JA, Starr JM, Strauch K, Swertz MA, Teumer A, Tham YC, Uitterlinden AG, Vaidya D, van der Ende MY, Waldenberger M, Wang L, Wang YX, Wei WB, Weir DR, Wen W, Yao J, Yu B, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Bowden DW, Deary IJ, Dörr M, Esko T, Freedman BI, Froguel P, Gasparini P, Gieger C, Jonas JB, Kammerer CM, Kato N, Lakka TA, Leander K, Lehtimäki T; Lifelines Cohort Study; Magnusson PKE, Marques-Vidal P, Penninx BWJH, Samani NJ, van der Harst P, Wagenknecht LE, Wu T, Zheng W, Zhu X, Bouchard C, Cooper RS, Correa A, Evans MK, Gudnason V, Hayward C, Horta BL, Kelly TN, Kritchevsky SB, Levy D, Palmas WR, Pereira AC, Province MM, Psaty BM, Ridker PM, Rotimi CN, Tai ES, van Dam RM, van Duijn CM, Wong TY, Rice K, Gauderman WJ, Morrison AC, North KE, **Kardia SLR**, Caulfield MJ, Elliott P, Munroe PB, Franks PW, Rao DC, Fornage M. Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci. *Mol Psychiatry*. 2021 Jun;26(6):2111-2125. doi: 10.1038/s41380-020-0719-3. Epub 2020 May 5. PMID: 32372009; PMCID: PMC7641978.

381. de Las Fuentes L, Sung YJ, Noordam R, Winkler T, Feitosa MF, Schwander K, Bentley AR, Brown MR, Guo X, Manning A, Chasman DI, Aschard H, Bartz TM, Bielak LF, Campbell A, Cheng CY, Dorajoo R, Hartwig FP, Horimoto ARVR, Li C, Li-Gao R, Liu Y, Marten J, Musani SK, Ntalla I, Rankinen T, Richard M, Sim X, Smith AV, Tajuddin SM, Tayo BO, Vojinovic D, Warren HR, Xuan D, Alver M, Boissel M, Chai JF, Chen X, Christensen K, Divers J, Evangelou E, Gao C, Girotto G, Harris SE, He M, Hsu FC, Kühnel B, Laguzzi F, Li X, Lyytikäinen LP, Nolte IM, Poveda A, Rauramaa R, Riaz M, Rueedi R, Shu XO, Snieder H, Sofer T, Takeuchi F, Verweij N, Ware EB, Weiss S, Yanek LR, Amin N, Arking DE, Arnett DK, Bergmann S, Boerwinkle E, Brody JA, Broeckel U, Brumat M, Burke G, Cabrera CP, Canouil M, Chee ML, Chen YI, Cocca M, Connell J, de Silva HJ, de Vries PS, Eiriksdottir G, Faul JD, Fisher V, Forrester T, Fox EF, Friedlander Y, Gao H, Gigante B, Giulianini F, Gu CC, Gu D, Harris TB, He J, Heikkinen S, Heng CK, Hunt S, Ikram MA, Irvin MR, Kähönen M, Kavousi M, Khor CC, Kilpeläinen TO, Koh WP, Komulainen P, Kraja AT, Krieger JE, Langefeld CD, Li Y, Liang J, Liewald DCM, Liu CT, Liu J, Lohman KK, Mägi R, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mook-Kanamori DO, Nalls MA, Nelson CP, Norris JM, O'Connell J, Ogunnuyi A, Padmanabhan S, Palmer ND, Pedersen NL, Perls T, Peters A, Petersmann A, Peyser

PA, Polasek O, Porteous DJ, Raffel LJ, Rice TK, Rotter JI, Rudan I, Rueda-Ochoa OL, Sabanayagam C, Salako BL, Schreiner PJ, Shikany JM, Sidney SS, Sims M, Sitlani CM, Smith JA, Starr JM, Strauch K, Swertz MA, Teumer A, Tham YC, Uitterlinden AG, Vaidya D, van der Ende MY, Waldenberger M, Wang L, Wang YX, Wei WB, Weir DR, Wen W, Yao J, Yu B, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Bowden DW, Deary IJ, Dörr M, Esko T, Freedman BI, Froguel P, Gasparini P, Gieger C, Jonas JB, Kammerer CM, Kato N, Lakka TA, Leander K, Lehtimäki T; Lifelines Cohort Study; Magnusson PKE, Marques-Vidal P, Penninx BWJH, Samani NJ, van der Harst P, Wagenknecht LE, Wu T, Zheng W, Zhu X, Bouchard C, Cooper RS, Correa A, Evans MK, Gudnason V, Hayward C, Horta BL, Kelly TN, Kritchevsky SB, Levy D, Palmas WR, Pereira AC, Province MM, Psaty BM, Ridker PM, Rotimi CN, Tai ES, van Dam RM, van Duijn CM, Wong TY, Rice K, Gauderman WJ, Morrison AC, North KE, **Kardia SLR**, Caulfield MJ, Elliott P, Munroe PB, Franks PW, Rao DC, Fornage M. Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci. *Mol Psychiatry*. 2021 Jun;26(6):2111-2125. doi: 10.1038/s41380-020-0719-3. Epub 2020 May 5. PMID: 32372009; PMCID: PMC7641978.

382. Chen J, Spracklen CN, Marenne G, Varshney A, Corbin LJ, Luan J, Willems SM, Wu Y, Zhang X, Horikoshi M, Boutin TS, Mägi R, Waage J, Li-Gao R, Chan KHK, Yao J, Anasanti MD, Chu AY, Claringbould A, Heikkinen J, Hong J, Hottenga JJ, Huo S, Kaakinen MA, Louie T, März W, Moreno-Macias H, Ndungu A, Nelson SC, Nolte IM, North KE, Raulerson CK, Ray D, Rohde R, Rybin D, Schurmann C, Sim X, Southam L, Stewart ID, Wang CA, Wang Y, Wu P, Zhang W, Ahluwalia TS, Appel EVR, Bielak LF, Brody JA, Burtt NP, Cabrera CP, Cade BE, Chai JF, Chai X, Chang LC, Chen CH, Chen BH, Chitrala KN, Chiu YF, de Haan HG, Delgado GE, Demirkhan A, Duan Q, Engmann J, Fatumo SA, Gayán J, Giulianini F, Gong JH, Gustafsson S, Hai Y, Hartwig FP, He J, Heianza Y, Huang T, Huerta-Chagoya A, Hwang MY, Jensen RA, Kawaguchi T, Kentistou KA, Kim YJ, Kleber ME, Kooner IK, Lai S, Lange LA, Langefeld CD, Lauzon M, Li M, Lighthart S, Liu J, Loh M, Long J, Lyssenko V, Mangino M, Marzi C, Montasser ME, Nag A, Nakatomi M, Noce D, Noordam R, Pistis G, Preuss M, Raffield L, Rasmussen-Torvik LJ, Rich SS, Robertson NR, Rueedi R, Ryan K, Sanna S, Saxena R, Schraut KE, Sennblad B, Setoh K, Smith AV, Sparsø T, Strawbridge RJ, Takeuchi F, Tan J, Trompet S, van den Akker E, van der Most PJ, Verweij N, Vogel M, Wang H, Wang C, Wang N, Warren HR, Wen W, Wilsgaard T, Wong A, Wood AR, Xie T, Zafarmand MH, Zhao JH, Zhao W, Amin N, Arzumanyan Z, Astrup A, Bakker SJL, Baldassarre D, Beekman M, Bergman RN, Bertoni A, Blüher M, Bonnycastle LL, Bornstein SR, Bowden DW, Cai Q, Campbell A, Campbell H, Chang YC, de Geus EJC, Dehghan A, Du S, Eiriksdottir G, Farmaki AE, Fränberg M, Fuchsberger C, Gao Y, Gjesing AP, Goel A, Han S, Hartman CA, Herder C, Hicks AA, Hsieh CH, Hsueh WA, Ichihara S, Igase M, Ikram MA, Johnson WC, Jørgensen ME, Joshi PK, Kalyani RR, Kandeel FR, Katsuya T, Khor CC, Kiess W, Kolcic I, Kuulasmaa T, Kuusisto J, Läll K, Lam K, Lawlor DA, Lee NR, Lemaitre RN, Li H; Lifelines Cohort Study; Lin SY, Lindström J, Linneberg A, Liu J, Lorenzo C, Matsubara T, Matsuda F, Mingrone G, Mooijaart S, Moon S, Nabika T, Nadkarni GN, Nadler JL, Nelis M, Neville MJ, Norris JM, Ohayagi Y, Peters A, Peyser PA, Polasek O, Qi Q, Raven D, Reilly DF, Reiner A, Rivideneira F, Roll K, Rudan I, Sabanayagam C, Sandow K, Sattar N, Schürmann A, Shi J, Stringham HM, Taylor KD,

Teslovich TM, Thuesen B, Timmers PRHJ, Tremoli E, Tsai MY, Uitterlinden A, van Dam RM, van Heemst D, van Hylckama Vlieg A, van Vliet-Ostaptchouk JV, Vangipurapu J, Vestergaard H, Wang T, Willems van Dijk K, Zemunik T, Abecasis GR, Adair LS, Aguilar-Salinas CA, Alarcón-Riquelme ME, An P, Aviles-Santa L, Becker DM, Beilin LJ, Bergmann S, Bisgaard H, Black C, Boehnke M, Boerwinkle E, Böhm BO, Bønnelykke K, Boomsma DI, Bottinger EP, Buchanan TA, Canouil M, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Cheng CY, Collins FS, Correa A, Cucca F, de Silva HJ, Dedoussis G, Elmståhl S, Evans MK, Ferrannini E, Ferrucci L, Florez JC, Franks PW, Frayling TM, Froguel P, Gigante B, Goodarzi MO, Gordon-Larsen P, Grallert H, Grarup N, Grimsbäck S, Groop L, Gudnason V, Guo X, Hamsten A, Hansen T, Hayward C, Heckbert SR, Horta BL, Huang W, Ingelsson E, James PS, Jarvelin MR, Jonas JB, Jukema JW, Kaleebu P, Kaplan R, **Kardia SLR**, Kato N, Keinanen-Kiukaanniemi SM, Kim BJ, Kivimaki M, Koistinen HA, Kooner JS, Körner A, Kovacs P, Kuh D, Kumari M, Kutalik Z, Laakso M, Lakka TA, Launer LJ, Leander K, Li H, Lin X, Lind L, Lindgren C, Liu S, Loos RJF, Magnusson PKE, Mahajan A, Metspalu A, Mook-Kanamori DO, Mori TA, Munroe PB, Njølstad I, O'Connell JR, Oldehinkel AJ, Ong KK, Padmanabhan S, Palmer CNA, Palmer ND, Pedersen O, Pennell CE, Porteous DJ, Pramstaller PP, Province MA, Psaty BM, Qi L, Raffel LJ, Rauramaa R, Redline S, Ridker PM, Rosendaal FR, Saaristo TE, Sandhu M, Saramies J, Schneiderman N, Schwarz P, Scott LJ, Selvin E, Sever P, Shu XO, Slagboom PE, Small KS, Smith BH, Snieder H, Sofer T, Sørensen TIA, Spector TD, Stanton A, Steves CJ, Stumvoll M, Sun L, Tabara Y, Tai ES, Timpson NJ, Tönjes A, Tuomilehto J, Tusie T, Uusitupa M, van der Harst P, van Duijn C, Vitart V, Vollenweider P, Vrijkotte TGM, Wagenknecht LE, Walker M, Wang YX, Wareham NJ, Watanabe RM, Watkins H, Wei WB, Wickremasinghe AR, Willemsen G, Wilson JF, Wong TY, Wu JY, Xiang AH, Yanek LR, Yengo L, Yokota M, Zeggini E, Zheng W, Zonderman AB, Rotter JI, Gloyn AL, McCarthy MI, Dupuis J, Meigs JB, Scott RA, Prokopenko I, Leong A, Liu CT, Parker SCJ, Mohlke KL, Langenberg C, Wheeler E, Morris AP, Barroso I; Meta-Analysis of Glucose and Insulin-related Traits Consortium (MAGIC). The trans-ancestral genomic architecture of glycemic traits. *Nat Genet.* 2021 Jun;53(6):840-860. doi: 10.1038/s41588-021-00852-9. Epub 2021 May 31. PMID: 34059833; PMCID: PMC7610958.

383. Kho M, Wang YZ, Chaar D, Zhao W, Ratliff SM, Mosley TH, Peyser PA, **Kardia SLR**, Smith JA. Accelerated DNA methylation age and medication use among African Americans. *Aging (Albany NY).* 2021 Jun 3;13(11):14604-14629. doi: 10.18632/aging.203115. Epub 2021 Jun 3. PMID: 34083497; PMCID: PMC8221348.
384. Jhun MA, Mendelson M, Wilson R, Gondalia R, Joehanes R, Salfati E, Zhao X, Braun KVE, Do AN, Hedman ÅK, Zhang T, Carnero-Montoro E, Shen J, Bartz TM, Brody JA, Montasser ME, O'Connell JR, Yao C, Xia R, Boerwinkle E, Grove M, Guan W, Liliane P, Singmann P, Müller-Nurasyid M, Meitinger T, Gieger C, Peters A, Zhao W, Ware EB, Smith JA, Dhana K, van Meurs J, Uitterlinden A, Ikram MA, Ghanbari M, Zhi D, Gustafsson S, Lind L, Li S, Sun D, Spector TD, Chen YI, Damcott C, Shuldiner AR, Absher DM, Horvath S, Tsao PS, Kardia S, Psaty BM, Sotoodehnia N, Bell JT, Ingelsson E, Chen W, Dehghan A, Arnett DK, Waldenberger M, Hou L, Whitsel EA, Baccarelli A, Levy D, Fornage M, Irvin MR, Assimes TL. A multi-ethnic epigenome-wide association study of leukocyte DNA methylation and blood lipids. *Nat Commun.* 2021 Jun

28;12(1):3987. doi: 10.1038/s41467-021-23899-y. Erratum in: Nat Commun. 2021 Jul 6;12(1):4256. PMID: 34183656; PMCID: PMC8238961.

385. McCartney DL, Min JL, Richmond RC, Lu AT, Sobczyk MK, Davies G, Broer L, Guo X, Jeong A, Jung J, Kasela S, Katrinli S, Kuo PL, Matias-Garcia PR, Mishra PP, Nygaard M, Palviainen T, Patki A, Raffield LM, Ratliff SM, Richardson TG, Robinson O, Soerensen M, Sun D, Tsai PC, van der Zee MD, Walker RM, Wang X, Wang Y, Xia R, Xu Z, Yao J, Zhao W, Correa A, Boerwinkle E, Dugué PA, Durda P, Elliott HR, Gieger C; Genetics of DNA Methylation Consortium; de Geus EJC, Harris SE, Hemani G, Imboden M, Kähönen M, **Kardia SLR**, Kresovich JK, Li S, Lunetta KL, Mangino M, Mason D, McIntosh AM, Mengel-From J, Moore AZ, Murabito JM; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; Ollikainen M, Pankow JS, Pedersen NL, Peters A, Polidoro S, Porteous DJ, Raitakari O, Rich SS, Sandler DP, Sillanpää E, Smith AK, Southey MC, Strauch K, Tiwari H, Tanaka T, Tillin T, Uitterlinden AG, Van Den Berg DJ, van Dongen J, Wilson JG, Wright J, Yet I, Arnett D, Bandinelli S, Bell JT, Binder AM, Boomsma DI, Chen W, Christensen K, Conneely KN, Elliott P, Ferrucci L, Fornage M, Hägg S, Hayward C, Irvin M, Kaprio J, Lawlor DA, Lehtimäki T, Lohoff FW, Milani L, Milne RL, Probst-Hensch N, Reiner AP, Ritz B, Rotter JI, Smith JA, Taylor JA, van Meurs JBJ, Vineis P, Waldenberger M, Deary IJ, Relton CL, Horvath S, Marioni RE. Genome-wide association studies identify 137 genetic loci for DNA methylation biomarkers of aging. *Genome Biol.* 2021 Jun 29;22(1):194. doi: 10.1186/s13059-021-02398-9. PMID: 34187551; PMCID: PMC8243879.
386. Palmer ND, Kahali B, Kuppa A, Chen Y, Du X, Feitosa MF, Bielak LF, O'Connell JR, Musani SK, Guo X, Smith AV, Ryan KA, Eirksdottir G, Allison MA, Bowden DW, Budoff MJ, Carr JJ, Chen YI, Taylor KD, Correa A, Crudup BF, Halligan B, Yang J, **Kardia SLR**, Launer LJ, Fu YP, Mosley TH, Norris JM, Terry JG, O'Donnell CJ, Rotter JI, Wagenknecht LE, Gudnason V, Province MA, Peyser PA, Speliotes EK. Allele-specific variation at APOE increases nonalcoholic fatty liver disease and obesity but decreases risk of Alzheimer's disease and myocardial infarction. *Hum Mol Genet.* 2021 Jul 9;30(15):1443-1456. doi: 10.1093/hmg/ddab096. PMID: 33856023; PMCID: PMC8283205.
387. Ammous F, Zhao W, Ratliff SM, Kho M, Shang L, Jones AC, Chaudhary NS, Tiwari HK, Irvin MR, Arnett DK, Mosley TH, Bielak LF, **Kardia SLR**, Zhou X, Smith J. Epigenome-wide association study identifies DNA methylation sites associated with target organ damage in older African Americans. *Epigenetics.* 2021 Aug;16(8):862-875. doi: 10.1080/15592294.2020.1827717. Epub 2020 Oct 26. PMID: 33100131; PMCID: PMC8331005.
388. Lu Y, Dimitrov L, Chen SH, Bielak LF, Bis JC, Feitosa MF, Lu L, Kavousi M, Raffield LM, Smith AV, Wang L, Weiss S, Yao J, Zhu J, Gudmundsson EF, Gudmundsdottir V, Bos D, Ghanbari M, Ikram MA, Hwang SJ, Taylor KD, Budoff MJ, Gíslason GK, O'Donnell CJ, An P, Franceschini N, Freedman BI, Fu YP, Guo X, Heiss G, **Kardia SLR**, Wilson JG, Langefeld CD, Schminke U, Uitterlinden AG, Lange LA, Peyser PA, Gudnason VG, Psaty BM, Rotter JI, Bowden DW, Ng MCY. Multiethnic Genome-Wide Association Study of Subclinical Atherosclerosis in Individuals With Type 2 Diabetes. *Circ*

Genom Precis Med. 2021 Aug;14(4):e003258. doi: 10.1161/CIRCGEN.120.003258. Epub 2021 Jul 9. PMID: 34241534; PMCID: PMC8435075.

389. Song Y, Zhou X, Kang J, Aung MT, Zhang M, Zhao W, Needham BL, **Kardia SLR**, Liu Y, Meeker JD, Smith JA, Mukherjee B. Bayesian hierarchical models for high-dimensional mediation analysis with coordinated selection of correlated mediators. Stat Med. 2021 Nov 30;40(27):6038-6056. doi: 10.1002/sim.9168. Epub 2021 Aug 17. PMID: 34404112; PMCID: PMC9257993.
- 390.
391. Seplyarskiy VB, Soldatov RA, Koch E, McGinty RJ, Goldmann JM, Hernandez RD, Barnes K, Correa A, Burchard EG, Ellinor PT, McGarvey ST, Mitchell BD, Vasan RS, Redline S, Silverman E, Weiss ST, Arnett DK, Blangero J, Boerwinkle E, He J, Montgomery C, Rao DC, Rotter JI, Taylor KD, Brody JA, Chen YI, de Las Fuentes L, Hwu CM, Rich SS, Manichaikul AW, Mychaleckyj JC, Palmer ND, Smith JA, **Kardia SLR**, Peyser PA, Bielak LF, O'Connor TD, Emery LS; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; TOPMed Population Genetics Working Group; Gilissen C, Wong WSW, Kharchenko PV, Sunyaev S. Population sequencing data reveal a compendium of mutational processes in the human germ line. Science. 2021 Aug 27;373(6558):1030-1035. doi: 10.1126/science.aba7408. Epub 2021 Aug 12. PMID: 34385354; PMCID: PMC9217108.
392. Ruth KS, Day FR, Hussain J, Martínez-Marchal A, Aiken CE, Azad A, Thompson DJ, Knoblochova L, Abe H, Tarry-Adkins JL, Gonzalez JM, Fontanillas P, Claringbould A, Bakker OB, Sulem P, Walters RG, Terao C, Turon S, Horikoshi M, Lin K, Onland-Moret NC, Sankar A, Hertz EPT, Timshel PN, Shukla V, Borup R, Olsen KW, Aguilera P, Ferrer-Roda M, Huang Y, Stankovic S, Timmers PRHJ, Ahearn TU, Alizadeh BZ, Naderi E, Andrusilis IL, Arnold AM, Aronson KJ, Augustinsson A, Bandinelli S, Barbieri CM, Beaumont RN, Becher H, Beckmann MW, Benonisdottir S, Bergmann S, Bochud M, Boerwinkle E, Bojesen SE, Bolla MK, Boomsma DI, Bowker N, Brody JA, Broer L, Buring JE, Campbell A, Campbell H, Castelao JE, Catamo E, Chanock SJ, Chenevix-Trench G, Ciullo M, Corre T, Couch FJ, Cox A, Crisponi L, Cross SS, Cucca F, Czene K, Smith GD, de Geus EJCN, de Mutsert R, De Vivo I, Demerath EW, Dennis J, Dunning AM, Dwek M, Eriksson M, Esko T, Fasching PA, Faul JD, Ferrucci L, Franceschini N, Frayling TM, Gago-Dominguez M, Mezzavilla M, García-Closas M, Gieger C, Giles GG, Grallert H, Gudbjartsson DF, Gudnason V, Guénel P, Haiman CA, Håkansson N, Hall P, Hayward C, He C, He W, Heiss G, Høffding MK, Hopper JL, Hottenga JJ, Hu F, Hunter D, Ikram MA, Jackson RD, Joaquim MDR, John EM, Joshi PK, Karasik D, **Kardia SLR**, Kartsonaki C, Karlsson R, Kitahara CM, Kolcic I, Kooperberg C, Kraft P, Kurian AW, Kutalik Z, La Bianca M, LaChance G, Langenberg C, Launer LJ, Laven JSE, Lawlor DA, Le Marchand L, Li J, Lindblom A, Lindstrom S, Lindstrom T, Linet M, Liu Y, Liu S, Luan J, Mägi R, Magnusson PKE, Mangino M, Mannermaa A, Marco B, Marten J, Martin NG, Mbarek H, McKnight B, Medland SE, Meisinger C, Meitinger T, Menni C, Metspalu A, Milani L, Milne RL, Montgomery GW, Mook-Kanamori DO, Mulas A, Mulligan AM, Murray A, Nalls MA, Newman A, Noordam R, Nutile T, Nyholt DR, Olshan AF, Olsson H, Painter JN, Patel AV, Pedersen NL, Perjakova N, Peters A, Peters U, Pharoah PDP,

Polasek O, Porcu E, Psaty BM, Rahman I, Rennert G, Rennert HS, Ridker PM, Ring SM, Robino A, Rose LM, Rosendaal FR, Rossouw J, Rudan I, Rueedi R, Ruggiero D, Sala CF, Saloustros E, Sandler DP, Sanna S, Sawyer EJ, Sarnowski C, Schlessinger D, Schmidt MK, Schoemaker MJ, Schraut KE, Scott C, Shekari S, Shrikhande A, Smith AV, Smith BH, Smith JA, Sorice R, Southey MC, Spector TD, Spinelli JJ, Stampfer M, Stöckl D, van Meurs JBJ, Strauch K, Styrkarsdottir U, Swerdlow AJ, Tanaka T, Teras LR, Teumer A, Þorsteinsdóttir U, Timpson NJ, Toniolo D, Traglia M, Troester MA, Truong T, Tyrrell J, Uitterlinden AG, Ulivi S, Vachon CM, Vitart V, Völker U, Vollenweider P, Völzke H, Wang Q, Wareham NJ, Weinberg CR, Weir DR, Wilcox AN, van Dijk KW, Willemsen G, Wilson JF, Wolffenbuttel BHR, Wolk A, Wood AR, Zhao W, Zygmunt M; Biobank-based Integrative Omics Study (BIOS) Consortium; eQTLGen Consortium; Biobank Japan Project; China Kadoorie Biobank Collaborative Group; kConFab Investigators; LifeLines Cohort Study; InterAct consortium; 23andMe Research Team; Chen Z, Li L, Franke L, Burgess S, Deelen P, Pers TH, Grøndahl ML, Andersen CY, Pujol A, Lopez-Contreras AJ, Daniel JA, Stefansson K, Chang-Claude J, van der Schouw YT, Lunetta KL, Chasman DI, Easton DF, Visser JA, Ozanne SE, Namekawa SH, Solc P, Murabito JM, Ong KK, Hoffmann ER, Murray A, Roig I, Perry JRB. Genetic insights into biological mechanisms governing human ovarian ageing. *Nature*. 2021 Aug;596(7872):393-397. doi: 10.1038/s41586-021-03779-7. Epub 2021 Aug 4. PMID: 34349265; PMCID: PMC7611832.

393. Song Y, Zhou X, Kang J, Aung MT, Zhang M, Zhao W, Needham BL, **Kardia SLR**, Liu Y, Meeker JD, Smith JA, Mukherjee B. Bayesian Sparse Mediation Analysis with Targeted Penalization of Natural Indirect Effects. *J R Stat Soc Ser C Appl Stat*. 2021 Nov;70(5):1391-1412. doi: 10.1111/rssc.12518. Epub 2021 Sep 12. PMID: 34887595; PMCID: PMC8653861.
394. Sun P, Kumar N, Tin A, Zhao J, Brown MR, Lin Z, Yang ML, Zheng Q, Jia J, Bielak LF, Yu B, Boerwinkle E, Hunker KL, Coresh J, Chen YE, Huo Y, **Kardia SLR**, Khoriaty R, Zhou X, Morrison AC, Zhang Y, Ganesh SK. Epidemiologic and Genetic Associations of Erythropoietin With Blood Pressure, Hypertension, and Coronary Artery Disease. *Hypertension*. 2021 Nov;78(5):1555-1566. doi: 10.1161/HYPERTENSIONAHA.121.17597. Epub 2021 Sep 7. PMID: 34488438; PMCID: PMC8516734.
395. Graham SE, Clarke SL, Wu KH, Kanoni S, Zajac GJM, Ramdas S, Surakka I, Ntalla I, Vedantam S, Winkler TW, Locke AE, Marouli E, Hwang MY, Han S, Narita A, Choudhury A, Bentley AR, Ekoru K, Verma A, Trivedi B, Martin HC, Hunt KA, Hui Q, Klarin D, Zhu X, Thorleifsson G, Helgadottir A, Gudbjartsson DF, Holm H, Olafsson I, Akiyama M, Sakae S, Terao C, Kanai M, Zhou W, Brumpton BM, Rasheed H, Ruotsalainen SE, Havulinna AS, Veturi Y, Feng Q, Rosenthal EA, Lingren T, Pacheco JA, Pendergrass SA, Haessler J, Giulianini F, Bradford Y, Miller JE, Campbell A, Lin K, Millwood IY, Hindy G, Rasheed A, Faul JD, Zhao W, Weir DR, Turman C, Huang H, Graff M, Mahajan A, Brown MR, Zhang W, Yu K, Schmidt EM, Pandit A, Gustafsson S, Yin X, Luan J, Zhao JH, Matsuda F, Jang HM, Yoon K, Medina-Gomez C, Pitsillides A, Hottenga JJ, Willemsen G, Wood AR, Ji Y, Gao Z, Haworth S, Mitchell RE, Chai JF, Aadahl M, Yao J, Manichaikul A, Warren HR, Ramirez J, Bork-Jensen J, Kårhus LL, Goel A, Sabater-Lleal M, Noordam R, Sidore C, Fiorillo E, McDaid AF, Marques-Vidal P, Wielscher M,

Trompet S, Sattar N, Møllehave LT, Thuesen BH, Munz M, Zeng L, Huang J, Yang B, Poveda A, Kurbasic A, Lamina C, Forer L, Scholz M, Galesloot TE, Bradfield JP, Daw EW, Zmuda JM, Mitchell JS, Fuchsberger C, Christensen H, Brody JA, Feitosa MF, Wojczynski MK, Preuss M, Mangino M, Christofidou P, Verweij N, Benjamins JW, Engmann J, Kember RL, Sliker RC, Lo KS, Zilhao NR, Le P, Kleber ME, Delgado GE, Huo S, Ikeda DD, Iha H, Yang J, Liu J, Leonard HL, Marten J, Schmidt B, Arendt M, Smyth LJ, Cañadas-Garre M, Wang C, Nakatuchi M, Wong A, Hutri-Kähönen N, Sim X, Xia R, Huerta-Chagoya A, Fernandez-Lopez JC, Lyssenko V, Ahmed M, Jackson AU, Yousri NA, Irvin MR, Oldmeadow C, Kim HN, Ryu S, Timmers PRHJ, Arbeeva L, Dorajoo R, Lange LA, Chai X, Prasad G, Lorés-Motta L, Pauper M, Long J, Li X, Theusch E, Takeuchi F, Spracklen CN, Loukola A, Bollepalli S, Warner SC, Wang YX, Wei WB, Nutile T, Ruggiero D, Sung YJ, Hung YJ, Chen S, Liu F, Yang J, Kentistou KA, Gorski M, Brumat M, Meidtner K, Bielak LF, Smith JA, Hebbar P, Farmaki AE, Hofer E, Lin M, Xue C, Zhang J, Concas MP, Vaccargiu S, van der Most PJ, Pitkänen N, Cade BE, Lee J, van der Laan SW, Chitrala KN, Weiss S, Zimmermann ME, Lee JY, Choi HS, Nethander M, Freitag-Wolf S, Southam L, Rayner NW, Wang CA, Lin SY, Wang JS, Couture C, Lyytikäinen LP, Nikus K, Cuellar-Partida G, Vestergaard H, Hildalgo B, Giannakopoulou O, Cai Q, Obura MO, van Setten J, Li X, Schwander K, Terzikhan N, Shin JH, Jackson RD, Reiner AP, Martin LW, Chen Z, Li L, Highland HM, Young KL, Kawaguchi T, Thiery J, Bis JC, Nadkarni GN, Launer LJ, Li H, Nalls MA, Raitakari OT, Ichihara S, Wild SH, Nelson CP, Campbell H, Jäger S, Nabika T, Al-Mulla F, Niinikoski H, Braund PS, Kolcic I, Kovacs P, Giardoglou T, Katsuya T, Bhatti KF, de Kleijn D, de Borst GJ, Kim EK, Adams HHH, Ikram MA, Zhu X, Asselbergs FW, Kraaijeveld AO, Beulens JWJ, Shu XO, Rallidis LS, Pedersen O, Hansen T, Mitchell P, Hewitt AW, Kähönen M, Pérusse L, Bouchard C, Tönjes A, Chen YI, Pennell CE, Mori TA, Lieb W, Franke A, Ohlsson C, Mellström D, Cho YS, Lee H, Yuan JM, Koh WP, Rhee SY, Woo JT, Heid IM, Stark KJ, Völzke H, Homuth G, Evans MK, Zonderman AB, Polasek O, Pasterkamp G, Hoefer IE, Redline S, Pahkala K, Oldehinkel AJ, Snieder H, Biino G, Schmidt R, Schmidt H, Chen YE, Bandinelli S, Dedoussis G, Thanaraj TA, **Kardia SLR**, Kato N, Schulze MB, Girotto G, Jung B, Böger CA, Joshi PK, Bennett DA, De Jager PL, Lu X, Mamakou V, Brown M, Caulfield MJ, Munroe PB, Guo X, Ciullo M, Jonas JB, Samani NJ, Kaprio J, Pajukanta P, Adair LS, Bechayda SA, de Silva HJ, Wickremasinghe AR, Krauss RM, Wu JY, Zheng W, den Hollander AI, Bharadwaj D, Correa A, Wilson JG, Lind L, Heng CK, Nelson AE, Golightly YM, Wilson JF, Penninx B, Kim HL, Attia J, Scott RJ, Rao DC, Arnett DK, Hunt SC, Walker M, Koistinen HA, Chandak GR, Yajnik CS, Mercader JM, Tusié-Luna T, Aguilar-Salinas CA, Villalpando CG, Orozco L, Fornage M, Tai ES, van Dam RM, Lehtimäki T, Chaturvedi N, Yokota M, Liu J, Reilly DF, McKnight AJ, Kee F, Jöckel KH, McCarthy MI, Palmer CNA, Vitart V, Hayward C, Simonsick E, van Duijn CM, Lu F, Qu J, Hishigaki H, Lin X, März W, Parra EJ, Cruz M, Gudnason V, Tardif JC, Lettre G, 't Hart LM, Elders PJM, Damrauer SM, Kumari M, Kivimaki M, van der Harst P, Spector TD, Loos RJF, Province MA, Psaty BM, Brandslund I, Pramstaller PP, Christensen K, Ripatti S, Widén E, Hakonarson H, Grant SFA, Kiemeney LALM, de Graaf J, Loeffler M, Kronenberg F, Gu D, Erdmann J, Schunkert H, Franks PW, Linneberg A, Jukema JW, Khera AV, Männikkö M, Jarvelin MR, Kutalik Z, Cucca F, Mook-Kanamori DO, van Dijk KW, Watkins H, Strachan DP, Grarup N, Sever P, Poulter N, Rotter JI, Dantoft TM, Karpe F, Neville MJ, Timpson NJ, Cheng CY, Wong TY, Khor CC, Sabanayagam C, Peters A,

Gieger C, Hattersley AT, Pedersen NL, Magnusson PKE, Boomsma DI, de Geus EJC, Cupples LA, van Meurs JBJ, Ghanbari M, Gordon-Larsen P, Huang W, Kim YJ, Tabara Y, Wareham NJ, Langenberg C, Zeggini E, Kuusisto J, Laakso M, Ingelsson E, Abecasis G, Chambers JC, Kooner JS, de Vries PS, Morrison AC, North KE, Daviglus M, Kraft P, Martin NG, Whitfield JB, Abbas S, Saleheen D, Walters RG, Holmes MV, Black C, Smith BH, Justice AE, Baras A, Buring JE, Ridker PM, Chasman DI, Kooperberg C, Wei WQ, Jarvik GP, Namjou B, Hayes MG, Ritchie MD, Jousilahti P, Salomaa V, Hveem K, Åsvold BO, Kubo M, Kamatani Y, Okada Y, Murakami Y, Thorsteinsdottir U, Stefansson K, Ho YL, Lynch JA, Rader DJ, Tsao PS, Chang KM, Cho K, O'Donnell CJ, Gaziano JM, Wilson P, Rotimi CN, Hazelhurst S, Ramsay M, Trembath RC, van Heel DA, Tamiya G, Yamamoto M, Kim BJ, Mohlke KL, Frayling TM, Hirschhorn JN, Kathiresan S; VA Million Veteran Program; Global Lipids Genetics Consortium\*; Boehnke M, Natarajan P, Peloso GM, Brown CD, Morris AP, Assimes TL, Deloukas P, Sun YV, Willer CJ. The power of genetic diversity in genome-wide association studies of lipids. *Nature*. 2021 Dec;600(7890):675-679. doi: 10.1038/s41586-021-04064-3. Epub 2021 Dec 9. Erratum in: *Nature*. 2023 Jun;618(7965):E19-E20. PMID: 34887591; PMCID: PMC8730582.

396. Bressler J, Davies G, Smith AV, Saba Y, Bis JC, Jian X, Hayward C, Yanek L, Smith JA, Mirza SS, Wang R, Adams HHH, Becker D, Boerwinkle E, Campbell A, Cox SR, Eiriksdottir G, Fawns-Ritchie C, Gottesman RF, Grove ML, Guo X, Hofer E, **Kardia SLR**, Knol MJ, Koini M, Lopez OL, Marioni RE, Nyquist P, Pattie A, Polasek O, Porteous DJ, Rudan I, Satizabal CL, Schmidt H, Schmidt R, Sidney S, Simino J, Smith BH, Turner ST, van der Lee SJ, Ware EB, Whitmer RA, Yaffe K, Yang Q, Zhao W, Gudnason V, Launer LJ, Fitzpatrick AL, Psaty BM, Fornage M, Arfan Ikram M, van Duijn CM, Seshadri S, Mosley TH, Deary IJ. Association of low-frequency and rare coding variants with information processing speed. *Transl Psychiatry*. 2021 Dec 4;11(1):613. doi: 10.1038/s41398-021-01736-6. Erratum in: *Transl Psychiatry*. 2022 Mar 1;12(1):88. PMID: 34864818; PMCID: PMC8643353.
397. Tin A, Schlosser P, Matias-Garcia PR, Thio CHL, Joehanes R, Liu H, Yu Z, Weihs A, Hoppmann A, Grundner-Culemann F, Min JL, Kuhns VLH, Adeyemo AA, Agyemang C, Ärmlöv J, Aziz NA, Baccarelli A, Bochud M, Brenner H, Bressler J, Breteler MMB, Carmeli C, Chaker L, Coresh J, Corre T, Correa A, Cox SR, Delgado GE, Eckardt KU, Ekici AB, Endlich K, Floyd JS, Fraszczek E, Gao X, Gào X, Gelber AC, Ghanbari M, Ghasemi S, Gieger C, Greenland P, Grove ML, Harris SE, Hemani G, Henneman P, Herder C, Horvath S, Hou L, Hurme MA, Hwang SJ, **Kardia SLR**, Kasela S, Kleber ME, Koenig W, Kooner JS, Kronenberg F, Kühnel B, Ladd-Acosta C, Lehtimäki T, Lind L, Liu D, Lloyd-Jones DM, Lorkowski S, Lu AT, Marioni RE, März W, McCartney DL, Meeks KAC, Milani L, Mishra PP, Nauck M, Nowak C, Peters A, Prokisch H, Psaty BM, Raitakari OT, Ratliff SM, Reiner AP, Schöttker B, Schwartz J, Sedaghat S, Smith JA, Sotoodehnia N, Stocker HR, Stringhini S, Sundström J, Swenson BR, van Meurs JBJ, van Vliet-Ostaptchouk JV, Venema A, Völker U, Winkelmann J, Wolffenbuttel BHR, Zhao W, Zheng Y; Estonian Biobank Research Team; Genetics of DNA Methylation Consortium; Loh M, Snieder H, Waldenberger M, Levy D, Akilesh S, Woodward OM, Susztak K, Teumer A, Köttgen A. Epigenome-wide association study of serum urate reveals insights

into urate co-regulation and the SLC2A9 locus. *Nat Commun.* 2021 Dec 9;12(1):7173. doi: 10.1038/s41467-021-27198-4. PMID: 34887389; PMCID: PMC8660809.

398. Schlosser P, Tin A, Matias-Garcia PR, Thio CHL, Joehanes R, Liu H, Weihs A, Yu Z, Hoppmann A, Grundner-Culemann F, Min JL, Adeyemo AA, Agyemang C, Ärnlöv J, Aziz NA, Baccarelli A, Bochud M, Brenner H, Breteler MMB, Carmeli C, Chaker L, Chambers JC, Cole SA, Coresh J, Corre T, Correa A, Cox SR, de Klein N, Delgado GE, Domingo-Relloso A, Eckardt KU, Ekici AB, Endlich K, Evans KL, Floyd JS, Fornage M, Franke L, Fraszczek E, Gao X, Gao X, Ghanbari M, Ghasemi S, Gieger C, Greenland P, Grove ML, Harris SE, Hemani G, Henneman P, Herder C, Horvath S, Hou L, Hurme MA, Hwang SJ, Jarvelin MR, **Kardia SLR**, Kasela S, Kleber ME, Koenig W, Kooner JS, Kramer H, Kronenberg F, Kühnel B, Lehtimäki T, Lind L, Liu D, Liu Y, Lloyd-Jones DM, Lohman K, Lorkowski S, Lu AT, Marioni RE, März W, McCartney DL, Meeks KAC, Milani L, Mishra PP, Nauck M, Navas-Acien A, Nowak C, Peters A, Prokisch H, Psaty BM, Raitakari OT, Ratliff SM, Reiner AP, Rosas SE, Schöttker B, Schwartz J, Sedaghat S, Smith JA, Sotoodehnia N, Stocker HR, Stringhini S, Sundström J, Swenson BR, Tellez-Plaza M, van Meurs JBJ, van Vliet-Ostaptchouk JV, Venema A, Verweij N, Walker RM, Wielscher M, Winkelmann J, Wolffenbuttel BHR, Zhao W, Zheng Y; Estonian Biobank Research Team; Genetics of DNA Methylation Consortium; Loh M, Snieder H, Levy D, Waldenberger M, Susztak K, Köttgen A, Teumer A. Meta-analyses identify DNA methylation associated with kidney function and damage. *Nat Commun.* 2021 Dec 9;12(1):7174. doi: 10.1038/s41467-021-27234-3. PMID: 34887417; PMCID: PMC8660832.
399. Hindy G, Dornbos P, Chaffin MD, Liu DJ, Wang M, Selvaraj MS, Zhang D, Park J, Aguilar-Salinas CA, Antonacci-Fulton L, Ardiissino D, Arnett DK, Aslibekyan S, Atzmon G, Ballantyne CM, Barajas-Olmos F, Barzilai N, Becker LC, Bielak LF, Bis JC, Blangero J, Boerwinkle E, Bonnycastle LL, Bottinger E, Bowden DW, Bown MJ, Brody JA, Broome JG, Burtt NP, Cade BE, Centeno-Cruz F, Chan E, Chang YC, Chen YI, Cheng CY, Choi WJ, Chowdhury R, Contreras-Cubas C, Córdova EJ, Correa A, Cupples LA, Curran JE, Danesh J, de Vries PS, DeFronzo RA, Doddapaneni H, Duggirala R, Dutcher SK, Ellinor PT, Emery LS, Florez JC, Fornage M, Freedman BI, Fuster V, Garay-Sevilla ME, García-Ortiz H, Germer S, Gibbs RA, Gieger C, Glaser B, Gonzalez C, Gonzalez-Villalpando ME, Graff M, Graham SE, Grarup N, Groop LC, Guo X, Gupta N, Han S, Hanis CL, Hansen T, He J, Heard-Costa NL, Hung YJ, Hwang MY, Irvin MR, Islas-Andrade S, Jarvik GP, Kang HM, **Kardia SLR**, Kelly T, Kenny EE, Khan AT, Kim BJ, Kim RW, Kim YJ, Koistinen HA, Kooperberg C, Kuusisto J, Kwak SH, Laakso M, Lange LA, Lee J, Lee J, Lee S, Lehman DM, Lemaitre RN, Linneberg A, Liu J, Loos RJF, Lubitz SA, Lyssenko V, Ma RCW, Martin LW, Martínez-Hernández A, Mathias RA, McGarvey ST, McPherson R, Meigs JB, Meitinger T, Melander O, Mendoza-Caamal E, Metcalf GA, Mi X, Mohlke KL, Montasser ME, Moon JY, Moreno-Macías H, Morrison AC, Muzny DM, Nelson SC, Nilsson PM, O'Connell JR, Orho-Melander M, Orozco L, Palmer CNA, Palmer ND, Park CJ, Park KS, Pedersen O, Peralta JM, Peyser PA, Post WS, Preuss M, Psaty BM, Qi Q, Rao DC, Redline S, Reiner AP, Revilla-Monsalve C, Rich SS, Samani N, Schunkert H, Schurmann C, Seo D, Seo JS, Sim X, Sladek R, Small KS, So WY, Stilp AM, Tai ES, Tam CHT, Taylor KD, Teo YY, Thameem F, Tomlinson B, Tsai MY, Tuomi T, Tuomilehto J,

Tusié-Luna T, Udler MS, van Dam RM, Vasan RS, Viaud Martinez KA, Wang FF, Wang X, Watkins H, Weeks DE, Wilson JG, Witte DR, Wong TY, Yanek LR; AMP-T2D-GENES, Myocardial Infarction Genetics Consortium; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; NHLBI TOPMed Lipids Working Group; Kathiresan S, Rader DJ, Rotter JI, Boehnke M, McCarthy MI, Willer CJ, Natarajan P, Flannick JA, Khera AV, Peloso GM. Rare coding variants in 35 genes associate with circulating lipid levels-A multi-ancestry analysis of 170,000 exomes. *Am J Hum Genet.* 2022 Jan 6;109(1):81-96. doi: 10.1016/j.ajhg.2021.11.021. Epub 2021 Dec 20. PMID: 34932938; PMCID: PMC8764201.

400. Taub MA, Conomos MP, Keener R, Iyer KR, Weinstock JS, Yanek LR, Lane J, Miller-Fleming TW, Brody JA, Raffield LM, McHugh CP, Jain D, Gogarten SM, Laurie CA, Keramati A, Arvanitis M, Smith AV, Heavner B, Barwick L, Becker LC, Bis JC, Blangero J, Bleecker ER, Burchard EG, Celedón JC, Chang YPC, Custer B, Darbar D, de Las Fuentes L, DeMeo DL, Freedman BI, Garrett ME, Gladwin MT, Heckbert SR, Hidalgo BA, Irvin MR, Islam T, Johnson WC, Kaab S, Launer L, Lee J, Liu S, Moscati A, North KE, Peyser PA, Rafaels N, Seidman C, Weeks DE, Wen F, Wheeler MM, Williams LK, Yang IV, Zhao W, Aslibekyan S, Auer PL, Bowden DW, Cade BE, Chen Z, Cho MH, Cupples LA, Curran JE, Daya M, Deka R, Eng C, Fingerlin TE, Guo X, Hou L, Hwang SJ, Johnsen JM, Kenny EE, Levin AM, Liu C, Minster RL, Naseri T, Nouraei M, Reupena MS, Sabino EC, Smith JA, Smith NL, Su JL, Taylor JG, Telen MJ, Tiwari HK, Tracy RP, White MJ, Zhang Y, Wiggins KL, Weiss ST, Vasan RS, Taylor KD, Sinner MF, Silverman EK, Shoemaker MB, Sheu WH, Sciurba F, Schwartz DA, Rotter JI, Roden D, Redline S, Raby BA, Psaty BM, Peralta JM, Palmer ND, Nekhai S, Montgomery CG, Mitchell BD, Meyers DA, McGarvey ST; NHLBI CARE Network; Mak AC, Loos RJ, Kumar R, Kooperberg C, Konkle BA, Kelly S, **Kardia SL**, Kaplan R, He J, Gui H, Gilliland FD, Gelb BD, Fornage M, Ellinor PT, de Andrade M, Correa A, Chen YI, Boerwinkle E, Barnes KC, Ashley-Koch AE, Arnett DK; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; TOPMed Hematology and Hemostasis Working Group; TOPMed Structural Variation Working Group; Laurie CC, Abecasis G, Nickerson DA, Wilson JG, Rich SS, Levy D, Ruczinski I, Aviv A, Blackwell TW, Thornton T, O'Connell J, Cox NJ, Perry JA, Armanios M, Battle A, Pankratz N, Reiner AP, Mathias RA. Genetic determinants of telomere length from 109,122 ancestrally diverse whole-genome sequences in TOPMed. *Cell Genom.* 2022 Jan 12;2(1):100084. doi: 10.1016/j.xgen.2021.100084. Epub 2022 Jan 13. PMID: 35530816; PMCID: PMC9075703.
401. He KY, Kelly TN, Wang H, Liang J, Zhu L, Cade BE, Assimes TL, Becker LC, Beitelshes AL, Bielak LF, Bress AP, Brody JA, Chang YC, Chang YC, de Vries PS, Duggirala R, Fox ER, Franceschini N, Furniss AL, Gao Y, Guo X, Haessler J, Hung YJ, Hwang SJ, Irvin MR, Kalyani RR, Liu CT, Liu C, Martin LW, Montasser ME, Muntner PM, Mwasongwe S, Naseri T, Palmas W, Reupena MS, Rice KM, Sheu WH, Shimbo D, Smith JA, Snively BM, Yanek LR, Zhao W, Blangero J, Boerwinkle E, Chen YI, Correa A, Cupples LA, Curran JE, Fornage M, He J, Hou L, Kaplan RC, **Kardia SLR**, Kenny EE, Kooperberg C, Lloyd-Jones D, Loos RJF, Mathias RA, McGarvey ST, Mitchell BD, North KE, Peyser PA, Psaty BM, Raffield LM, Rao DC, Redline S, Reiner AP, Rich SS, Rotter JI, Taylor KD, Tracy R, Vasan RS; Samoan Obesity, Lifestyle and Genetic Adaptations Study

- (OLaGA) Group, NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; Morrison AC, Levy D, Chakravarti A, Arnett DK, Zhu X. Rare coding variants in RCN3 are associated with blood pressure. *BMC Genomics.* 2022 Feb 19;23(1):148. doi: 10.1186/s12864-022-08356-4. PMID: 35183128; PMCID: PMC8858539.
402. DiCorpo D, LeClair J, Cole JB, Sarnowski C, Ahmadizar F, Bielak LF, Blokstra A, Bottinger EP, Chaker L, Chen YI, Chen Y, de Vries PS, Faquih T, Ghanbari M, Gudmundsdottir V, Guo X, Hasbani NR, Ibi D, Ikram MA, Kavousi M, Leonard HL, Leong A, Mercader JM, Morrison AC, Nadkarni GN, Nalls MA, Noordam R, Preuss M, Smith JA, Trompet S, Vissink P, Yao J, Zhao W, Boerwinkle E, Goodarzi MO, Gudnason V, Jukema JW, **Kardia SLR**, Loos RJF, Liu CT, Manning AK, Mook-Kanamori D, Pankow JS, Picavet HSJ, Sattar N, Simonsick EM, Verschuren WMM, Willems van Dijk K, Florez JC, Rotter JI, Meigs JB, Dupuis J, Udler MS. Type 2 Diabetes Partitioned Polygenic Scores Associate With Disease Outcomes in 454,193 Individuals Across 13 Cohorts. *Diabetes Care.* 2022 Mar 1;45(3):674-683. doi: 10.2337/dc21-1395. PMID: 35085396; PMCID: PMC8918228.
403. Bressler J, Davies G, Smith AV, Saba Y, Bis JC, Jian X, Hayward C, Yanek L, Smith JA, Mirza SS, Wang R, Adams HHH, Becker D, Boerwinkle E, Campbell A, Cox SR, Eiriksdottir G, Fawns-Ritchie C, Gottesman RF, Grove ML, Guo X, Hofer E, **Kardia SLR**, Knol MJ, Koini M, Lopez OL, Marioni RE, Nyquist P, Pattie A, Polasek O, Porteous DJ, Rudan I, Satizabal CL, Schmidt H, Schmidt R, Sidney S, Simino J, Smith BH, Turner ST, van der Lee SJ, Ware EB, Whitmer RA, Yaffe K, Yang Q, Zhao W, Gudnason V, Launer LJ, Fitzpatrick AL, Psaty BM, Fornage M, Arfan Ikram M, van Duijn CM, Seshadri S, Mosley TH, Deary IJ. Correction: Association of low-frequency and rare coding variants with information processing speed. *Transl Psychiatry.* 2022 Mar 1;12(1):88. doi: 10.1038/s41398-022-01852-x. Erratum for: *Transl Psychiatry.* 2021 Dec 4;11(1):613. PMID: 35232957; PMCID: PMC8888652.
404. Nong P, Williamson A, Anthony D, Platt J, **Kardia S.** Discrimination, trust, and withholding information from providers: Implications for missing data and inequity. *SSM Popul Health.* 2022 Apr 7;18:101092. doi: 10.1016/j.ssmph.2022.101092. PMID: 35479582; PMCID: PMC9035429.
405. Nakao T, Bick AG, Taub MA, Zekavat SM, Uddin MM, Niroula A, Carty CL, Lane J, Honigberg MC, Weinstock JS, Pampana A, Gibson CJ, Griffin GK, Clarke SL, Bhattacharya R, Assimes TL, Emery LS, Stilp AM, Wong Q, Broome J, Laurie CA, Khan AT, Smith AV, Blackwell TW, Codd V, Nelson CP, Yoneda ZT, Peralta JM, Bowden DW, Irvin MR, Boorgula M, Zhao W, Yanek LR, Wiggins KL, Hixson JE, Gu CC, Peloso GM, Roden DM, Reupena MS, Hwu CM, DeMeo DL, North KE, Kelly S, Musani SK, Bis JC, Lloyd-Jones DM, Johnsen JM, Preuss M, Tracy RP, Peyser PA, Qiao D, Desai P, Curran JE, Freedman BI, Tiwari HK, Chavan S, Smith JA, Smith NL, Kelly TN, Hidalgo B, Cupples LA, Weeks DE, Hawley NL, Minster RL; Samoan Obesity, Lifestyle and Genetic Adaptations Study (OLaGA) Group; Deka R, Naseri TT, de Las Fuentes L, Raffield LM, Morrison AC, Vries PS, Ballantyne CM, Kenny EE, Rich SS, Whitsel EA, Cho MH, Shoemaker MB, Pace BS, Blangero J, Palmer ND, Mitchell BD, Shuldiner AR, Barnes

KC, Redline S, **Kardia SLR**, Abecasis GR, Becker LC, Heckbert SR, He J, Post W, Arnett DK, Vasan RS, Darbar D, Weiss ST, McGarvey ST, de Andrade M, Chen YI, Kaplan RC, Meyers DA, Custer BS, Correa A, Psaty BM, Fornage M, Manson JE, Boerwinkle E, Konkle BA, Loos RJF, Rotter JI, Silverman EK, Kooperberg C, Danesh J, Samani NJ, Jaiswal S, Libby P, Ellinor PT, Pankratz N, Ebert BL, Reiner AP, Mathias RA, Do R; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; Natarajan P. Mendelian randomization supports bidirectional causality between telomere length and clonal hematopoiesis of indeterminate potential. *Sci Adv.* 2022 Apr 8;8(14):eabl6579. doi: 10.1126/sciadv.abl6579. Epub 2022 Apr 6. PMID: 35385311; PMCID: PMC8986098.

406. Bielak LF, Peyser PA, Smith JA, Zhao W, Ruiz-Narvaez EA, **Kardia SLR**, Harlow SD. Multivariate, region-based genetic analyses of facets of reproductive aging in White and Black women. *Mol Genet Genomic Med.* 2022 Apr;10(4):e1896. doi: 10.1002/mgg3.1896. Epub 2022 Feb 18. PMID: 35179313; PMCID: PMC9000932.
407. Wang YZ, Zhao W, Ammous F, Song Y, Du J, Shang L, Ratliff SM, Moore K, Kelly KM, Needham BL, Diez Roux AV, Liu Y, Butler KR, **Kardia SLR**, Mukherjee B, Zhou X, Smith JA. DNA Methylation Mediates the Association Between Individual and Neighborhood Social Disadvantage and Cardiovascular Risk Factors. *Front Cardiovasc Med.* 2022 May 19;9:848768. doi: 10.3389/fcvm.2022.848768. PMID: 35665255; PMCID: PMC9162507.
408. Mahajan A, Spracklen CN, Zhang W, Ng MCY, Petty LE, Kitajima H, Yu GZ, Rüeger S, Speidel L, Kim YJ, Horikoshi M, Mercader JM, Taliun D, Moon S, Kwak SH, Robertson NR, Rayner NW, Loh M, Kim BJ, Chiou J, Miguel-Escalada I, Della Briotta Parolo P, Lin K, Bragg F, Preuss MH, Takeuchi F, Nano J, Guo X, Lamri A, Nakatuchi M, Scott RA, Lee JJ, Huerta-Chagoya A, Graff M, Chai JF, Parra EJ, Yao J, Bielak LF, Tabara Y, Hai Y, Steinhorsdottir V, Cook JP, Kals M, Grarup N, Schmidt EM, Pan I, Sofer T, Wuttke M, Sarnowski C, Gieger C, Nousome D, Trompet S, Long J, Sun M, Tong L, Chen WM, Ahmad M, Noordam R, Lim VJY, Tam CHT, Joo YY, Chen CH, Raffield LM, Lecoeur C, Prins BP, Nicolas A, Yanek LR, Chen G, Jensen RA, Tajuddin S, Kabagambe EK, An P, Xiang AH, Choi HS, Cade BE, Tan J, Flanagan J, Abaitua F, Adair LS, Adeyemo A, Aguilar-Salinas CA, Akiyama M, Anand SS, Bertoni A, Bian Z, Bork-Jensen J, Brandslund I, Brody JA, Brummett CM, Buchanan TA, Canouil M, Chan JCN, Chang LC, Chee ML, Chen J, Chen SH, Chen YT, Chen Z, Chuang LM, Cushman M, Das SK, de Silva HJ, Dedoussis G, Dimitrov L, Doumatey AP, Du S, Duan Q, Eckardt KU, Emery LS, Evans DS, Evans MK, Fischer K, Floyd JS, Ford I, Fornage M, Franco OH, Frayling TM, Freedman BI, Fuchsberger C, Genter P, Gerstein HC, Giedraitis V, González-Villalpando C, González-Villalpando ME, Goodarzi MO, Gordon-Larsen P, Gorkin D, Gross M, Guo Y, Hackinger S, Han S, Hattersley AT, Herder C, Howard AG, Hsueh W, Huang M, Huang W, Hung YJ, Hwang MY, Hwu CM, Ichihara S, Ikram MA, Ingelsson M, Islam MT, Isono M, Jang HM, Jasmine F, Jiang G, Jonas JB, Jørgensen ME, Jørgensen T, Kamatani Y, Kandeel FR, Kasturiratne A, Katsuya T, Kaur V, Kawaguchi T, Keaton JM, Kho AN, Khor CC, Kibriya MG, Kim DH, Kohara K, Kriebel J, Kronenberg F, Kuusisto J, Läll K, Lange LA, Lee MS, Lee NR, Leong A, Li L, Li Y, Li-Gao R, Ligthart S, Lindgren CM, Linneberg A, Liu CT, Liu J, Locke AE, Louie T, Luan J, Luk AO, Luo X, Lv J, Lyssenko V, Mamakou

V, Mani KR, Meitinger T, Metspalu A, Morris AD, Nadkarni GN, Nadler JL, Nalls MA, Nayak U, Nongmaithem SS, Ntalla I, Okada Y, Orozco L, Patel SR, Pereira MA, Peters A, Pirie FJ, Porneala B, Prasad G, Preissl S, Rasmussen-Torvik LJ, Reiner AP, Roden M, Rohde R, Roll K, Sabanayagam C, Sander M, Sandow K, Sattar N, Schönher S, Schurmann C, Shahriar M, Shi J, Shin DM, Shriner D, Smith JA, So WY, Stančáková A, Stilp AM, Strauch K, Suzuki K, Takahashi A, Taylor KD, Thorand B, Thorleifsson G, Thorsteinsdottir U, Tomlinson B, Torres JM, Tsai FJ, Tuomilehto J, Tusie-Luna T, Udler MS, Valladares-Salgado A, van Dam RM, van Klinken JB, Varma R, Vujkovic M, Wacher-Rodarte N, Wheeler E, Whitsel EA, Wickremasinghe AR, van Dijk KW, Witte DR, Yajnik CS, Yamamoto K, Yamauchi T, Yengo L, Yoon K, Yu C, Yuan JM, Yusuf S, Zhang L, Zheng W; FinnGen; eMERGE Consortium; Raffel LJ, Igase M, Ipp E, Redline S, Cho YS, Lind L, Province MA, Hanis CL, Peyser PA, Ingelsson E, Zonderman AB, Psaty BM, Wang YX, Rotimi CN, Becker DM, Matsuda F, Liu Y, Zeggini E, Yokota M, Rich SS, Kooperberg C, Pankow JS, Engert JC, Chen YI, Froguel P, Wilson JG, Sheu WHH, **Kardia SLR**, Wu JY, Hayes MG, Ma RCW, Wong TY, Groop L, Mook-Kanamori DO, Chandak GR, Collins FS, Bharadwaj D, Paré G, Sale MM, Ahsan H, Motala AA, Shu XO, Park KS, Jukema JW, Cruz M, McKean-Cowdin R, Grallert H, Cheng CY, Bottinger EP, Dehghan A, Tai ES, Dupuis J, Kato N, Laakso M, Köttgen A, Koh WP, Palmer CNA, Liu S, Abecasis G, Kooner JS, Loos RJF, North KE, Haiman CA, Florez JC, Saleheen D, Hansen T, Pedersen O, Mägi R, Langenberg C, Wareham NJ, Maeda S, Kadowaki T, Lee J, Millwood IY, Walters RG, Stefansson K, Myers SR, Ferrer J, Gaulton KJ, Meigs JB, Mohlke KL, Gloyn AL, Bowden DW, Below JE, Chambers JC, Sim X, Boehnke M, Rotter JI, McCarthy MI, Morris AP. Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation. *Nat Genet.* 2022 May;54(5):560-572. doi: 10.1038/s41588-022-01058-3. Epub 2022 May 12. PMID: 35551307; PMCID: PMC9179018.

409. Howe LJ, Nivard MG, Morris TT, Hansen AF, Rasheed H, Cho Y, Chittoor G, Ahlskog R, Lind PA, Palviainen T, van der Zee MD, Cheesman R, Mangino M, Wang Y, Li S, Klaric L, Ratliff SM, Bielak LF, Nygaard M, Giannelis A, Willoughby EA, Reynolds CA, Balbona JV, Andreassen OA, Ask H, Baras A, Bauer CR, Boomsma DI, Campbell A, Campbell H, Chen Z, Christofidou P, Corfield E, Dahm CC, Dokuru DR, Evans LM, de Geus EJC, Giddaluru S, Gordon SD, Harden KP, Hill WD, Hughes A, Kerr SM, Kim Y, Kweon H, Latvala A, Lawlor DA, Li L, Lin K, Magnus P, Magnusson PKE, Mallard TT, Martikainen P, Mills MC, Njølstad PR, Overton JD, Pedersen NL, Porteous DJ, Reid J, Silventoinen K, Southey MC, Stoltenberg C, Tucker-Drob EM, Wright MJ; Social Science Genetic Association Consortium; Within Family Consortium; Hewitt JK, Keller MC, Stallings MC, Lee JJ, Christensen K, **Kardia SLR**, Peyser PA, Smith JA, Wilson JF, Hopper JL, Hägg S, Spector TD, Pingault JB, Plomin R, Havdahl A, Bartels M, Martin NG, Oskarsson S, Justice AE, Millwood IY, Hveem K, Naess Ø, Willer CJ, Åsvold BO, Koellinger PD, Kaprio J, Medland SE, Walters RG, Benjamin DJ, Turley P, Evans DM, Davey Smith G, Hayward C, Brumpton B, Hemani G, Davies NM. Within-sibship genome-wide association analyses decrease bias in estimates of direct genetic effects. *Nat Genet.* 2022 May;54(5):581-592. doi: 10.1038/s41588-022-01062-7. Epub 2022 May 9. PMID: 35534559; PMCID: PMC9110300.

410. Umberfield EE, Stansbury C, Ford K, Jiang Y, **Kardia SLR**, Thomer AK, Harris MR. Evaluating and Extending the Informed Consent Ontology for Representing Permissions from the Clinical Domain. *Appl Ontol.* 2022;17(2):321-336. doi: 10.3233/ao-210260. Epub 2022 May 4. PMID: 36312514; PMCID: PMC9616177.
411. Li Z, Zhao W, Shang L, Mosley TH, **Kardia SLR**, Smith JA, Zhou X. METRO: Multi-ancestry transcriptome-wide association studies for powerful gene-trait association detection. *Am J Hum Genet.* 2022 May 5;109(5):783-801. doi: 10.1016/j.ajhg.2022.03.003. Epub 2022 Mar 24. PMID: 35334221; PMCID: PMC9118130.
412. Mishra A, Duplaà C, Vojinovic D, Suzuki H, Sargurupremraj M, Zilhão NR, Li S, Bartz TM, Jian X, Zhao W, Hofer E, Wittfeld K, Harris SE, van der Auwera-Palitschka S, Luciano M, Bis JC, Adams HHH, Satizabal CL, Gottesman RF, Gampawar PG, Bülow R, Weiss S, Yu M, Bastin ME, Lopez OL, Vernooij MW, Beiser AS, Völker U, Kacprowski T, Soumire A, Smith JA, Knopman DS, Morris Z, Zhu Y, Rotter JI, Dufouil C, Valdés Hernández M, Muñoz Maniega S, Lathrop M, Boerwinkle E, Schmidt R, Ihara M, Mazoyer B, Yang Q, Joutel A, Tournier-Lasserve E, Launer LJ, Deary IJ, Mosley TH, Amouyel P, DeCarli CS, Psaty BM, Tzourio C, **Kardia SLR**, Grabe HJ, Teumer A, van Duijn CM, Schmidt H, Wardlaw JM, Ikram MA, Fornage M, Gudnason V, Seshadri S, Matthews PM, Longstreth WT, Couffinhal T, Debette S. Gene-mapping study of extremes of cerebral small vessel disease reveals TRIM47 as a strong candidate. *Brain.* 2022 Jun 30;145(6):1992-2007. doi: 10.1093/brain/awab432. PMID: 35511193; PMCID: PMC9255380.
413. Kelly TN, Sun X, He KY, Brown MR, Taliun SAG, Hellwege JN, Irvin MR, Mi X, Brody JA, Franceschini N, Guo X, Hwang SJ, de Vries PS, Gao Y, Moscati A, Nadkarni GN, Yanek LR, Elfassy T, Smith JA, Chung RH, Beitelshes AL, Patki A, Aslibekyan S, Blobner BM, Peralta JM, Assimes TL, Palmas WR, Liu C, Bress AP, Huang Z, Becker LC, Hwa CM, O'Connell JR, Carlson JC, Warren HR, Das S, Giri A, Martin LW, Craig Johnson W, Fox ER, Bottinger EP, Razavi AC, Vaidya D, Chuang LM, Chang YC, Naseri T, Jain D, Kang HM, Hung AM, Srinivasasainagendra V, Snively BM, Gu D, Montasser ME, Reupena MS, Heavner BD, LeFaive J, Hixson JE, Rice KM, Wang FF, Nielsen JB, Huang J, Khan AT, Zhou W, Nierenberg JL, Laurie CC, Armstrong ND, Shi M, Pan Y, Stilp AM, Emery L, Wong Q, Hawley NL, Minster RL, Curran JE, Munroe PB, Weeks DE, North KE, Tracy RP, Kenny EE, Shimbo D, Chakravarti A, Rich SS, Reiner AP, Blangero J, Redline S, Mitchell BD, Rao DC, Ida Chen YD, **Kardia SLR**, Kaplan RC, Mathias RA, He J, Psaty BM, Fornage M, Loos RJF, Correa A, Boerwinkle E, Rotter JI, Kooperberg C, Edwards TL, Abecasis GR, Zhu X, Levy D, Arnett DK, Morrison AC; Samoan Obesity, Lifestyle, and Genetic Adaptations Study (OLaGA) Group,‡ NHLBI Trans-Omics for Precision Medicine TOPMed Consortium. Insights From a Large-Scale Whole-Genome Sequencing Study of Systolic Blood Pressure, Diastolic Blood Pressure, and Hypertension. *Hypertension.* 2022 Aug;79(8):1656-1667. doi: 10.1161/HYPERTENSIONAHA.122.19324. Epub 2022 Jun 2. PMID: 35652341; PMCID: PMC9593435.

414. Spector-Bagdady K, Trinidad G, **Kardia S**, Krenz CD, Nong P, Raj M, Platt JE. Reported Interest in Notification Regarding Use of Health Information and Biospecimens. *JAMA*. 2022 Aug 2;328(5):474-476. doi: 10.1001/jama.2022.9740. PMID: 35916854; PMCID: PMC9346547.
415. Jaworek T, Xu H, Gaynor BJ, Cole JW, Rannikmae K, Stanne TM, Tomppo L, Abedi V, Amouyel P, Armstrong ND, Attia J, Bell S, Benavente OR, Boncoraglio GB, Butterworth A; Cervical Artery Dissections and Ischemic Stroke Patients (CADSIP) Consortium; Carcel-Marquez J, Chen Z, Chong M, Cruchaga C, Cushman M, Danesh J, Debette S, Duggan DJ, Durda JP, Engstrom G, Enzinger C, Faul JD, Fecteau NS, Fernandez-Cadenas I, Gieger C, Giese AK, Grewal RP, Grittner U, Havulinna AS, Heitsch L, Hochberg MC, Holliday E, Hu J, Ilinca A; INVENT Consortium; Irvin MR, Jackson RD, Jacob MA, Janssen RR, Jimenez-Conde J, Johnson JA, Kamatani Y, **Kardia SL**, Koido M, Kubo M, Lange L, Lee JM, Lemmens R, Levi CR, Li J, Li L, Lin K, Lopez H, Luke S, Maguire J, McArdle PF, McDonough CW, Meschia JF, Metso T, Muller-Nurasyid M, O'Connor TD, O'Donnell M, Peddareddygarri LR, Pera J, Perry JA, Peters A, Putala J, Ray D, Rexrode K, Ribases M, Rosand J, Rothwell PM, Rundek T, Ryan KA, Sacco RL, Salomaa V, Sanchez-Mora C, Schmidt R, Sharma P, Slowik A, Smith JA, Smith NL, Wassertheil-Smoller S, Soederholm M, Stine OC, Strbian D, Sudlow CL, Tatlisumak T, Terao C, Thijs V, Torres-Aguila NP, Tregouet DA, Tuladhar AM, Veldink JH, Walters RG, Weir DR, Woo D, Worrall BB, Hong CC, Ross O, Zand R, Leeuw FE, Lindgren AG, Pare G, Anderson CD, Markus HS, Jern C, Malik R, Dichgans M, Mitchell BD, Kittner SJ; Early Onset Stroke Genetics Consortium of the International Stroke Genetics Consortium (ISGC). Contribution of Common Genetic Variants to Risk of Early Onset Ischemic Stroke. *Neurology*. 2022 Aug 31;99(16):e1738–54. doi: 10.1212/WNL.0000000000201006. Epub ahead of print. PMID: 36240095; PMCID: PMC9620803.
416. Raj M, Ryan K, Nong P, Calhoun K, Trinidad MG, De Vries R, Creary M, Spector-Bagdady K, **Kardia SLR**, Platt J. Public Deliberation Process on Patient Perspectives on Health Information Sharing: Evaluative Descriptive Study. *JMIR Cancer*. 2022 Sep 16;8(3):e37793. doi: 10.2196/37793. PMID: 36112409; PMCID: PMC9526123.
417. Wang Z, Emmerich A, Pillon NJ, Moore T, Hemerich D, Cornelis MC, Mazzaferro E, Broos S, Ahluwalia TS, Bartz TM, Bentley AR, Bielak LF, Chong M, Chu AY, Berry D, Dorajoo R, Dueker ND, Kasbohm E, Feenstra B, Feitosa MF, Gieger C, Graff M, Hall LM, Haller T, Hartwig FP, Hillis DA, Huikari V, Heard-Costa N, Holzapfel C, Jackson AU, Johansson Å, Jørgensen AM, Kaakinen MA, Karlsson R, Kerr KF, Kim B, Koolhaas CM, Kutalik Z, Lagou V, Lind PA, Lorentzon M, Lyttikäinen LP, Mangino M, Metzendorf C, Monroe KR, Pacolet A, Pérusse L, Pool R, Richmond RC, Rivera NV, Robiou-du-Pont S, Schraut KE, Schulz CA, Stringham HM, Tanaka T, Teumer A, Turman C, van der Most PJ, Vanmunster M, van Rooij FJA, van Vliet-Ostaptchouk JV, Zhang X, Zhao JH, Zhao W, Balkhiyarova Z, Balslev-Harder MN, Baumeister SE, Beilby J, Blangero J, Boomsma DI, Brage S, Braund PS, Brody JA, Bruinenberg M, Ekelund U, Liu CT, Cole JW, Collins FS, Cupples LA, Esko T, Enroth S, Faul JD, Fernandez-Rhodes L, Fohner AE, Franco OH, Galesloot TE, Gordon SD, Grarup N, Hartman CA, Heiss G, Hui J, Illig T, Jago R, James A, Joshi PK, Jung T, Kähönen M, Kilpeläinen TO, Koh WP, Kolcic I, Kraft PP, Kuusisto

J, Launer LJ, Li A, Linneberg A, Luan J, Vidal PM, Medland SE, Milaneschi Y, Moscati A, Musk B, Nelson CP, Nolte IM, Pedersen NL, Peters A, Peyser PA, Power C, Raitakari OT, Reedik M, Reiner AP, Ridker PM, Rudan I, Ryan K, Sarzynski MA, Scott LJ, Scott RA, Sidney S, Siggeirsdottir K, Smith AV, Smith JA, Sonestedt E, Strøm M, Tai ES, Teo KK, Thorand B, Tönjes A, Tremblay A, Uitterlinden AG, Vangipurapu J, van Schoor N, Völker U, Willemsen G, Williams K, Wong Q, Xu H, Young KL, Yuan JM, Zillikens MC, Zonderman AB, Ameur A, Bandinelli S, Bis JC, Boehnke M, Bouchard C, Chasman DI, Smith GD, de Geus EJC, Deldicque L, Dörr M, Evans MK, Ferrucci L, Fornage M, Fox C, Garland T Jr, Gudnason V, Gyllensten U, Hansen T, Hayward C, Horta BL, Hyppönen E, Jarvelin MR, Johnson WC, **Kardia SLR**, Kiemeney LA, Laakso M, Langenberg C, Lehtimäki T, Marchand LL; Lifelines Cohort Study; Magnusson PKE, Martin NG, Melbye M, Metspalu A, Meyre D, North KE, Ohlsson C, Oldehinkel AJ, Orho-Melander M, Pare G, Park T, Pedersen O, Penninx BWJH, Pers TH, Polasek O, Prokopenko I, Rotimi CN, Samani NJ, Sim X, Snieder H, Sørensen TIA, Spector TD, Timpson NJ, van Dam RM, van der Velde N, van Duijn CM, Vollenweider P, Völzke H, Voortman T, Waeber G, Wareham NJ, Weir DR, Wichmann HE, Wilson JF, Hevener AL, Krook A, Zierath JR, Thomis MAI, Loos RJF, Hoed MD. Genome-wide association analyses of physical activity and sedentary behavior provide insights into underlying mechanisms and roles in disease prevention. *Nat Genet.* 2022 Sep;54(9):1332-1344. doi: 10.1038/s41588-022-01165-1. Epub 2022 Sep 7. PMID: 36071172; PMCID: PMC9470530.

418. Jones AC, Patki A, Claas SA, Tiwari HK, Chaudhary NS, Absher DM, Lange LA, Lange EM, Zhao W, Ratliff SM, **Kardia SLR**, Smith JA, Irvin MR, Arnett DK. Differentially Methylated DNA Regions and Left Ventricular Hypertrophy in African Americans: A HyperGEN Study. *Genes (Basel).* 2022 Sep 22;13(10):1700. doi: 10.3390/genes13101700. PMID: 36292585; PMCID: PMC9601679.
419. Yengo L, Vedantam S, Marouli E, Sidorenko J, Bartell E, Sakaue S, Graff M, Eliasen AU, Jiang Y, Raghavan S, Miao J, Arias JD, Graham SE, Mukamel RE, Spracklen CN, Yin X, Chen SH, Ferreira T, Highland HH, Ji Y, Karaderi T, Lin K, Lüll K, Malden DE, Medina-Gomez C, Machado M, Moore A, Rueger S, Sim X, Vrieze S, Ahluwalia TS, Akiyama M, Allison MA, Alvarez M, Andersen MK, Ani A, Appadurai V, Arbeeva L, Bhaskar S, Bielak LF, Bollepalli S, Bonnycastle LL, Bork-Jensen J, Bradfield JP, Bradford Y, Braund PS, Brody JA, Burgdorf KS, Cade BE, Cai H, Cai Q, Campbell A, Cañadas-Garre M, Catamo E, Chai JF, Chai X, Chang LC, Chang YC, Chen CH, Chesi A, Choi SH, Chung RH, Cocca M, Concas MP, Couture C, Cuellar-Partida G, Danning R, Daw EW, Degenhard F, Delgado GE, Delitala A, Demirkhan A, Deng X, Devineni P, Dietl A, Dimitriou M, Dimitrov L, Dorajoo R, Ekici AB, Engmann JE, Fairhurst-Hunter Z, Farmaki AE, Faul JD, Fernandez-Lopez JC, Forer L, Francescato M, Freitag-Wolf S, Fuchsberger C, Galesloot TE, Gao Y, Gao Z, Geller F, Giannakopoulou O, Giulianini F, Gjesing AP, Goel A, Gordon SD, Gorski M, Grove J, Guo X, Gustafsson S, Haessler J, Hansen TF, Havulinna AS, Haworth SJ, He J, Heard-Costa N, Hebbar P, Hindy G, Ho YA, Hofer E, Holliday E, Horn K, Hornsby WE, Hottenga JJ, Huang H, Huang J, Huerta-Chagoya A, Huffman JE, Hung YJ, Huo S, Hwang MY, Iha H, Ikeda DD, Isono M, Jackson AU, Jäger S, Jansen IE, Johansson I, Jonas JB, Jonsson A, Jørgensen T, Kalafati IP, Kanai M, Kanoni S, Kårhus LL, Kasturiratne A, Katsuya T, Kawaguchi T, Kember RL, Kentistou KA, Kim

HN, Kim YJ, Kleber ME, Knol MJ, Kurbasic A, Lauzon M, Le P, Lea R, Lee JY, Leonard HL, Li SA, Li X, Li X, Liang J, Lin H, Lin SY, Liu J, Liu X, Lo KS, Long J, Lores-Motta L, Luan J, Lyssenko V, Lyytikäinen LP, Mahajan A, Mamakou V, Mangino M, Manichaikul A, Marten J, Mattheisen M, Mavarani L, McDaid AF, Meidner K, Melendez TL, Mercader JM, Milaneschi Y, Miller JE, Millwood IY, Mishra PP, Mitchell RE, Møllehave LT, Morgan A, Mucha S, Munz M, Nakatomi M, Nelson CP, Nethander M, Nho CW, Nielsen AA, Nolte IM, Nongmaithem SS, Noordam R, Ntalla I, Nutile T, Pandit A, Christofidou P, Pärna K, Pauper M, Petersen ERB, Petersen LV, Pitkänen N, Polášek O, Poveda A, Preuss MH, Pyarajan S, Raffield LM, Rakugi H, Ramirez J, Rasheed A, Raven D, Rayner NW, Riveros C, Rohde R, Ruggiero D, Ruotsalainen SE, Ryan KA, Sabater-Lleal M, Saxena R, Scholz M, Sendamarai A, Shen B, Shi J, Shin JH, Sidore C, Sitlani CM, Slieker RC, Smit RAJ, Smith AV, Smith JA, Smyth LJ, Southam L, Steinthorsdottir V, Sun L, Takeuchi F, Tallapragada DSP, Taylor KD, Tayo BO, Tcheandjieu C, Terzikhan N, Tesolin P, Teumer A, Theusch E, Thompson DJ, Thorleifsson G, Timmers PRHJ, Trompet S, Turman C, Vaccariu S, van der Laan SW, van der Most PJ, van Klinken JB, van Setten J, Verma SS, Verweij N, Veturi Y, Wang CA, Wang C, Wang L, Wang Z, Warren HR, Bin Wei W, Wickremasinghe AR, Wielscher M, Wiggins KL, Winsvold BS, Wong A, Wu Y, Wuttke M, Xia R, Xie T, Yamamoto K, Yang J, Yao J, Young H, Yousri NA, Yu L, Zeng L, Zhang W, Zhang X, Zhao JH, Zhao W, Zhou W, Zimmermann ME, Zoledziewska M, Adair LS, Adams HHH, Aguilar-Salinas CA, Al-Mulla F, Arnett DK, Asselbergs FW, Åsvold BO, Attia J, Banas B, Bandinelli S, Bennett DA, Bergler T, Bharadwaj D, Biino G, Bisgaard H, Boerwinkle E, Böger CA, Bønnelykke K, Boomsma DI, Børglum AD, Borja JB, Bouchard C, Bowden DW, Brandslund I, Brumpton B, Buring JE, Caulfield MJ, Chambers JC, Chandak GR, Chanock SJ, Chaturvedi N, Chen YI, Chen Z, Cheng CY, Christoffersen IE, Ciullo M, Cole JW, Collins FS, Cooper RS, Cruz M, Cucca F, Cupples LA, Cutler MJ, Damrauer SM, Dantoft TM, de Borst GJ, de Groot LCPGM, De Jager PL, de Kleijn DPV, Janaka de Silva H, Dedoussis GV, den Hollander AI, Du S, Easton DF, Elders PJM, Eliassen AH, Ellinor PT, Elmståhl S, Erdmann J, Evans MK, Fatkin D, Feenstra B, Feitosa MF, Ferrucci L, Ford I, Fornage M, Franke A, Franks PW, Freedman BI, Gasparini P, Gieger C, Girotto G, Goddard ME, Golightly YM, Gonzalez-Villalpando C, Gordon-Larsen P, Grallert H, Grant SFA, Grarup N, Griffiths L, Gudnason V, Haiman C, Hakonarson H, Hansen T, Hartman CA, Hattersley AT, Hayward C, Heckbert SR, Heng CK, Hengstenberg C, Hewitt AW, Hishigaki H, Hoyng CB, Huang PL, Huang W, Hunt SC, Hveem K, Hyppönen E, Iacono WG, Ichihara S, Ikram MA, Isasi CR, Jackson RD, Jarvelin MR, Jin ZB, Jöckel KH, Joshi PK, Jousilahti P, Jukema JW, Kähönen M, Kamatani Y, Kang KD, Kaprio J, **Kardia SLR**, Karpe F, Kato N, Kee F, Kessler T, Khera AV, Khor CC, Kiemeney LALM, Kim BJ, Kim EK, Kim HL, Kirchhof P, Kivimaki M, Koh WP, Koistinen HA, Kolovou GD, Kooner JS, Kooperberg C, Köttgen A, Kovacs P, Kraaijeveld A, Kraft P, Krauss RM, Kumari M, Kutalik Z, Laakso M, Lange LA, Langenberg C, Launer LJ, Le Marchand L, Lee H, Lee NR, Lehtimäki T, Li H, Li L, Lieb W, Lin X, Lind L, Linneberg A, Liu CT, Liu J, Loeffler M, London B, Lubitz SA, Lye SJ, Mackey DA, Mägi R, Magnusson PKE, Marcus GM, Vidal PM, Martin NG, März W, Matsuda F, McGarrah RW, McGue M, McKnight AJ, Medland SE, Mellström D, Metspalu A, Mitchell BD, Mitchell P, Mook-Kanamori DO, Morris AD, Mucci LA, Munroe PB, Nalls MA, Nazarian S, Nelson AE, Neville MJ, Newton-Cheh C, Nielsen CS, Nöthen MM, Ohlsson C, Oldehinkel AJ, Orozco L, Pahkala K, Pajukanta P,

Palmer CNA, Parra EJ, Pattaro C, Pedersen O, Pennell CE, Penninx BWJH, Perusse L, Peters A, Peyser PA, Porteous DJ, Posthuma D, Power C, Pramstaller PP, Province MA, Qi Q, Qu J, Rader DJ, Raitakari OT, Ralhan S, Rallidis LS, Rao DC, Redline S, Reilly DF, Reiner AP, Rhee SY, Ridker PM, Rienstra M, Ripatti S, Ritchie MD, Roden DM, Rosendaal FR, Rotter JI, Rudan I, Rutters F, Sabanayagam C, Saleheen D, Salomaa V, Samani NJ, Sanghera DK, Sattar N, Schmidt B, Schmidt H, Schmidt R, Schulze MB, Schunkert H, Scott LJ, Scott RJ, Sever P, Shiroma EJ, Shoemaker MB, Shu XO, Simonsick EM, Sims M, Singh JR, Singleton AB, Sinner MF, Smith JG, Snieder H, Spector TD, Stampfer MJ, Stark KJ, Strachan DP, 't Hart LM, Tabara Y, Tang H, Tardif JC, Thanaraj TA, Timpson NJ, Tönjes A, Tremblay A, Tuomi T, Tuomilehto J, Tusié-Luna MT, Uitterlinden AG, van Dam RM, van der Harst P, Van der Velde N, van Duijn CM, van Schoor NM, Vitart V, Völker U, Vollenweider P, Völzke H, Wacher-Rodarte NH, Walker M, Wang YX, Wareham NJ, Watanabe RM, Watkins H, Weir DR, Werge TM, Widen E, Wilkens LR, Willemsen G, Willett WC, Wilson JF, Wong TY, Woo JT, Wright AF, Wu JY, Xu H, Yajnik CS, Yokota M, Yuan JM, Zegger E, Zemel BS, Zheng W, Zhu X, Zmuda JM, Zonderman AB, Zwart JA; 23andMe Research Team; VA Million Veteran Program; DiscovEHR (DiscovEHR and MyCode Community Health Initiative); eMERGE (Electronic Medical Records and Genomics Network); Lifelines Cohort Study; PRACTICAL Consortium; Understanding Society Scientific Group; Chasman DI, Cho YS, Heid IM, McCarthy MI, Ng MCY, O'Donnell CJ, Rivadeneira F, Thorsteinsdottir U, Sun YV, Tai ES, Boehnke M, Deloukas P, Justice AE, Lindgren CM, Loos RJF, Mohlke KL, North KE, Stefansson K, Walters RG, Winkler TW, Young KL, Loh PR, Yang J, Esko T, Assimes TL, Auton A, Abecasis GR, Willer CJ, Locke AE, Berndt SI, Lettre G, Frayling TM, Okada Y, Wood AR, Visscher PM, Hirschhorn JN. A saturated map of common genetic variants associated with human height. *Nature*. 2022 Oct;610(7933):704-712. doi: 10.1038/s41586-022-05275-y. Epub 2022 Oct 12. PMID: 36224396; PMCID: PMC9605867.

420. Selvaraj MS, Li X, Li Z, Pampana A, Zhang DY, Park J, Aslibekyan S, Bis JC, Brody JA, Cade BE, Chuang LM, Chung RH, Curran JE, de Las Fuentes L, de Vries PS, Duggirala R, Freedman BI, Graff M, Guo X, Heard-Costa N, Hidalgo B, Hwu CM, Irvin MR, Kelly TN, Kral BG, Lange L, Li X, Lisa M, Lubitz SA, Manichaikul AW, Michael P, Montasser ME, Morrison AC, Naseri T, O'Connell JR, Palmer ND, Peyser PA, Reupena MS, Smith JA, Sun X, Taylor KD, Tracy RP, Tsai MY, Wang Z, Wang Y, Bao W, Wilkins JT, Yanek LR, Zhao W, Arnett DK, Blangero J, Boerwinkle E, Bowden DW, Chen YI, Correa A, Cupples LA, Dutcher SK, Ellinor PT, Fornage M, Gabriel S, Germer S, Gibbs R, He J, Kaplan RC, **Kardia SLR**, Kim R, Kooperberg C, Loos RJF, Viaud-Martinez KA, Mathias RA, McGarvey ST, Mitchell BD, Nickerson D, North KE, Psaty BM, Redline S, Reiner AP, Vasan RS, Rich SS, Willer C, Rotter JI, Rader DJ, Lin X; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; Peloso GM, Natarajan P. Whole genome sequence analysis of blood lipid levels in >66,000 individuals. *Nat Commun*. 2022 Oct 11;13(1):5995. doi: 10.1038/s41467-022-33510-7. PMID: 36220816; PMCID: PMC9553944.
421. Umberfield EE, **Kardia SLR**, Jiang Y, Thomer AK, Harris MR. Regulations and Norms for Reuse of Residual Clinical Biospecimens and Health Data. *West J Nurs Res*. 2022

Nov;44(11):1068-1081. doi: 10.1177/01939459211029296. Epub 2021 Jul 8. PMID: 34238076; PMCID: PMC8741881.

422. Jang SK, Evans L, Fialkowski A, Arnett DK, Ashley-Koch AE, Barnes KC, Becker DM, Bis JC, Blangero J, Bleecker ER, Boorgula MP, Bowden DW, Brody JA, Cade BE, Jenkins BWC, Carson AP, Chavan S, Cupples LA, Custer B, Damrauer SM, David SP, de Andrade M, Dinardo CL, Fingerlin TE, Fornage M, Freedman BI, Garrett ME, Gharib SA, Glahn DC, Haessler J, Heckbert SR, Hokanson JE, Hou L, Hwang SJ, Hyman MC, Judy R, Justice AE, Kaplan RC, **Kardia SLR**, Kelly S, Kim W, Kooperberg C, Levy D, Lloyd-Jones DM, Loos RJF, Manichaikul AW, Gladwin MT, Martin LW, Nouraie M, Melander O, Meyers DA, Montgomery CG, North KE, Oelsner EC, Palmer ND, Payton M, Peljto AL, Peyser PA, Preuss M, Psaty BM, Qiao D, Rader DJ, Rafaels N, Redline S, Reed RM, Reiner AP, Rich SS, Rotter JI, Schwartz DA, Shadyab AH, Silverman EK, Smith NL, Smith JG, Smith AV, Smith JA, Tang W, Taylor KD, Telen MJ, Vasan RS, Gordeuk VR, Wang Z, Wiggins KL, Yanek LR, Yang IV, Young KA, Young KL, Zhang Y, Liu DJ, Keller MC, Vrieze S. Rare genetic variants explain missing heritability in smoking. *Nat Hum Behav.* 2022 Nov;6(11):1577-1586. doi: 10.1038/s41562-022-01408-5. Epub 2022 Aug 4. PMID: 35927319; PMCID: PMC9985486.
423. Chaar DL, Nguyen K, Wang YZ, Ratliff SM, Mosley TH, **Kardia SLR**, Smith JA, Zhao W. SNP-by-CpG Site Interactions in ABCA7 Are Associated with Cognition in Older African Americans. *Genes (Basel).* 2022 Nov 18;13(11):2150. doi: 10.3390/genes13112150. PMID: 36421824; PMCID: PMC9691156.
424. Young KL, Fisher V, Deng X, Brody JA, Graff M, Lim E, Lin BM, Xu H, Amin N, An P, Aslibekyan S, Fohner AE, Hidalgo B, Lenzini P, Kraaij R, Medina-Gomez C, Prokić I, Rivadeneira F, Sitlani C, Tao R, van Rooij J, Zhang D, Broome JG, Buth EJ, Heavner BD, Jain D, Smith AV, Barnes K, Boorgula MP, Chavan S, Darbar D, De Andrade M, Guo X, Haessler J, Irvin MR, Kalyani RR, **Kardia SLR**, Kooperberg C, Kim W, Mathias RA, McDonald ML, Mitchell BD, Peyser PA, Regan EA, Redline S, Reiner AP, Rich SS, Rotter JI, Smith JA, Weiss S, Wiggins KL, Yanek LR, Arnett D, Heard-Costa NL, Leal S, Lin D, McKnight B, Province M, van Duijn CM, North KE, Cupples LA, Liu CT. Whole-exome sequence analysis of anthropometric traits illustrates challenges in identifying effects of rare genetic variants. *HGG Adv.* 2022 Nov 25;4(1):100163. doi: 10.1016/j.xhgg.2022.100163. PMID: 36568030; PMCID: PMC9772568.
425. Lahti J, Tuominen S, Yang Q, Pergola G, Ahmad S, Amin N, Armstrong NJ, Beiser A, Bey K, Bis JC, Boerwinkle E, Bressler J, Campbell A, Campbell H, Chen Q, Corley J, Cox SR, Davies G, De Jager PL, Derkx EM, Faul JD, Fitzpatrick AL, Fohner AE, Ford I, Fornage M, Gerring Z, Grabe HJ, Grodstein F, Gudnason V, Simonsick E, Holliday EG, Joshi PK, Kajantie E, Kaprio J, Karel P, Kleineidam L, Knol MJ, Kochan NA, Kwok JB, Leber M, Lam M, Lee T, Li S, Loukola A, Luck T, Marioni RE, Mather KA, Medland S, Mirza SS, Nalls MA, Nho K, O'Donnell A, Oldmeadow C, Painter J, Pattie A, Reppermund S, Risacher SL, Rose RJ, Sadashivaiah V, Scholz M, Satizabal CL, Schofield PW, Schraut KE, Scott RJ, Simino J, Smith AV, Smith JA, Stott DJ, Surakka I, Teumer A, Thalamuthu A, Trompet S, Turner ST, van der Lee SJ, Villringer A, Völker U, Wilson RS, Wittfeld K,

Vuoksimaa E, Xia R, Yaffe K, Yu L, Zare H, Zhao W, Ames D, Attia J, Bennett DA, Brodaty H, Chasman DI, Goldman AL, Hayward C, Ikram MA, Jukema JW, **Kardia SLR**, Lencz T, Loeffler M, Mattay VS, Palotie A, Psaty BM, Ramirez A, Ridker PM, Riedel-Heller SG, Sachdev PS, Saykin AJ, Scherer M, Schofield PR, Sidney S, Starr JM, Trollor J, Ulrich W, Wagner M, Weir DR, Wilson JF, Wright MJ, Weinberger DR, Debette S, Eriksson JG, Mosley TH Jr, Launer LJ, van Duijn CM, Deary IJ, Seshadri S, Räikkönen K. Genome-wide meta-analyses reveal novel loci for verbal short-term memory and learning. *Mol Psychiatry*. 2022 Nov;27(11):4419-4431. doi: 10.1038/s41380-022-01710-8. Epub 2022 Aug 16. PMID: 35974141; PMCID: PMC9734053.

426. Saunders GRB, Wang X, Chen F, Jang SK, Liu M, Wang C, Gao S, Jiang Y, Khunsriraksakul C, Otto JM, Addison C, Akiyama M, Albert CM, Aliev F, Alonso A, Arnett DK, Ashley-Koch AE, Ashrani AA, Barnes KC, Barr RG, Bartz TM, Becker DM, Bielak LF, Benjamin EJ, Bis JC, Bjornsdottir G, Blangero J, Bleeker ER, Boardman JD, Boerwinkle E, Boomsma DI, Boorgula MP, Bowden DW, Brody JA, Cade BE, Chasman DI, Chavan S, Chen YI, Chen Z, Cheng I, Cho MH, Choquet H, Cole JW, Cornelis MC, Cucca F, Curran JE, de Andrade M, Dick DM, Docherty AR, Duggirala R, Eaton CB, Ehringer MA, Esko T, Faul JD, Fernandes Silva L, Fiorillo E, Fornage M, Freedman BI, Gabrielsen ME, Garrett ME, Gharib SA, Gieger C, Gillespie N, Glahn DC, Gordon SD, Gu CC, Gu D, Gudbjartsson DF, Guo X, Haessler J, Hall ME, Haller T, Harris KM, He J, Herd P, Hewitt JK, Hickie I, Hidalgo B, Hokanson JE, Hopfer C, Hottenga J, Hou L, Huang H, Hung YJ, Hunter DJ, Hveem K, Hwang SJ, Hwu CM, Iacono W, Irvin MR, Jee YH, Johnson EO, Joo YY, Jorgenson E, Justice AE, Kamatani Y, Kaplan RC, Kaprio J, **Kardia SLR**, Keller MC, Kelly TN, Kooperberg C, Korhonen T, Kraft P, Krauter K, Kuusisto J, Laakso M, Lasky-Su J, Lee WJ, Lee JJ, Levy D, Li L, Li K, Li Y, Lin K, Lind PA, Liu C, Lloyd-Jones DM, Lutz SM, Ma J, Mägi R, Manichaikul A, Martin NG, Mathur R, Matoba N, McArdle PF, McGue M, McQueen MB, Medland SE, Metspalu A, Meyers DA, Millwood IY, Mitchell BD, Mohlke KL, Moll M, Montasser ME, Morrison AC, Mulas A, Nielsen JB, North KE, Oelsner EC, Okada Y, Orrù V, Palmer ND, Palviainen T, Pandit A, Park SL, Peters U, Peters A, Peyser PA, Polderman TJC, Rafaels N, Redline S, Reed RM, Reiner AP, Rice JP, Rich SS, Richmond NE, Roan C, Rotter JI, Rueschman MN, Runarsdottir V, Saccone NL, Schwartz DA, Shadyab AH, Shi J, Shringarpure SS, Sicinski K, Skogholt AH, Smith JA, Smith NL, Sotoodehnia N, Stallings MC, Stefansson H, Stefansson K, Stitzel JA, Sun X, Syed M, Tal-Singer R, Taylor AE, Taylor KD, Telen MJ, Thai KK, Tiwari H, Turman C, Tyrfingsson T, Wall TL, Walters RG, Weir DR, Weiss ST, White WB, Whitfield JB, Wiggins KL, Willemse G, Willer CJ, Winsvold BS, Xu H, Yanek LR, Yin J, Young KL, Young KA, Yu B, Zhao W, Zhou W, Zöllner S, Zuccolo L; 23andMe Research Team; Biobank Japan Project; Batini C, Bergen AW, Bierut LJ, David SP, Gagliano Taliun SA, Hancock DB, Jiang B, Munafò MR, Thorgeirsson TE, Liu DJ, Vrieze S. Genetic diversity fuels gene discovery for tobacco and alcohol use. *Nature*. 2022 Dec;612(7941):720-724. doi: 10.1038/s41586-022-05477-4. Epub 2022 Dec 7. PMID: 36477530; PMCID: PMC9771818.
427. Xu H, Nguyen K, Gaynor BJ, Ling H, Zhao W, McArdle PF, O'Connor TD, Stine OC, Ryan KA, Lynch M, Smith JA, Faul JD, Hu Y, Haessler JW, Fornage M, Kooperberg C, On Behalf Of The Trans-Omics For Precision Medicine TOPMed Stroke Working Group,

Perry JA, Hong CC, Cole JW, Pugh E, Doheny K, **Kardia SLR**, Weir DR, Kittner SJ, Mitchell BD; SiGN Consortium. Exome Array Analysis of 9721 Ischemic Stroke Cases from the SiGN Consortium. *Genes (Basel)*. 2022 Dec 24;14(1):61. doi: 10.3390/genes14010061. PMID: 36672803; PMCID: PMC9858999.

428. Kanoni S, Graham SE, Wang Y, Surakka I, Ramdas S, Zhu X, Clarke SL, Bhatti KF, Vedantam S, Winkler TW, Locke AE, Marouli E, Zajac GJM, Wu KH, Ntalla I, Hui Q, Klarin D, Hilliard AT, Wang Z, Xue C, Thorleifsson G, Helgadottir A, Gudbjartsson DF, Holm H, Olafsson I, Hwang MY, Han S, Akiyama M, Sakaue S, Terao C, Kanai M, Zhou W, Brumpton BM, Rasheed H, Havulinna AS, Veturi Y, Pacheco JA, Rosenthal EA, Lingren T, Feng Q, Kullo IJ, Narita A, Takayama J, Martin HC, Hunt KA, Trivedi B, Haessler J, Julianini F, Bradford Y, Miller JE, Campbell A, Lin K, Millwood IY, Rasheed A, Hindy G, Faul JD, Zhao W, Weir DR, Turman C, Huang H, Graff M, Choudhury A, Sengupta D, Mahajan A, Brown MR, Zhang W, Yu K, Schmidt EM, Pandit A, Gustafsson S, Yin X, Luan J, Zhao JH, Matsuda F, Jang HM, Yoon K, Medina-Gomez C, Pitsillides A, Hottenga JJ, Wood AR, Ji Y, Gao Z, Haworth S, Yousri NA, Mitchell RE, Chai JF, Aadahl M, Bjerregaard AA, Yao J, Manichaikul A, Hwu CM, Hung YJ, Warren HR, Ramirez J, Bork-Jensen J, Kårhus LL, Goel A, Sabater-Lleal M, Noordam R, Mauro P, Matteo F, McDaid AF, Marques-Vidal P, Wielscher M, Trompet S, Sattar N, Møllehave LT, Munz M, Zeng L, Huang J, Yang B, Poveda A, Kurbasic A, Lamina C, Forer L, Scholz M, Galesloot TE, Bradfield JP, Ruotsalainen SE, Daw E, Zmuda JM, Mitchell JS, Fuchsberger C, Christensen H, Brody JA, Vazquez-Moreno M, Feitosa MF, Wojczynski MK, Wang Z, Preuss MH, Mangino M, Christofidou P, Verweij N, Benjamins JW, Engmann J, Tsao NL, Verma A, Slieker RC, Lo KS, Zilhao NR, Le P, Kleber ME, Delgado GE, Huo S, Ikeda DD, Iha H, Yang J, Liu J, Demirkhan A, Leonard HL, Marten J, Frank M, Schmidt B, Smyth LJ, Cañadas-Garre M, Wang C, Nakatochi M, Wong A, Hutili-Kähönen N, Sim X, Xia R, Huerta-Chagoya A, Fernandez-Lopez JC, Lyssenko V, Nongmaithem SS, Bayyana S, Stringham HM, Irvin MR, Oldmeadow C, Kim HN, Ryu S, Timmers PRHJ, Arbeeva L, Dorajoo R, Lange LA, Prasad G, Lorés-Motta L, Pauper M, Long J, Li X, Theusch E, Takeuchi F, Spracklen CN, Loukola A, Bollepalli S, Warner SC, Wang YX, Wei WB, Nutile T, Ruggiero D, Sung YJ, Chen S, Liu F, Yang J, Kentistou KA, Banas B, Nardone GG, Meidner K, Bielak LF, Smith JA, Hebbar P, Farmaki AE, Hofer E, Lin M, Concas MP, Vaccariu S, van der Most PJ, Pitkänen N, Cade BE, van der Laan SW, Chitrala KN, Weiss S, Bentley AR, Doumatey AP, Adeyemo AA, Lee JY, Petersen ERB, Nielsen AA, Choi HS, Nethander M, Freitag-Wolf S, Southam L, Rayner NW, Wang CA, Lin SY, Wang JS, Couture C, Lyytikäinen LP, Nikus K, Cuellar-Partida G, Vestergaard H, Hidalgo B, Giannakopoulou O, Cai Q, Obura MO, van Setten J, Li X, Liang J, Tang H, Terzikhan N, Shin JH, Jackson RD, Reiner AP, Martin LW, Chen Z, Li L, Kawaguchi T, Thiery J, Bis JC, Launer LJ, Li H, Nalls MA, Raitakari OT, Ichihara S, Wild SH, Nelson CP, Campbell H, Jäger S, Nabika T, Al-Mulla F, Niinikoski H, Braund PS, Kolcic I, Kovacs P, Giardoglou T, Katsuya T, de Kleijn D, de Borst GJ, Kim EK, Adams HHH, Ikram MA, Zhu X, Asselbergs FW, Kraaijeveld AO, Beulens JWJ, Shu XO, Rallidis LS, Pedersen O, Hansen T, Mitchell P, Hewitt AW, Kähönen M, Pérusse L, Bouchard C, Tönjes A, Chen YI, Pennell CE, Mori TA, Lieb W, Franke A, Ohlsson C, Mellström D, Cho YS, Lee H, Yuan JM, Koh WP, Rhee SY, Woo JT, Heid IM, Stark KJ, Zimmermann ME, Völzke H, Homuth G, Evans MK, Zonderman AB, Polasek O,

Pasterkamp G, Hoefer IE, Redline S, Pahkala K, Oldehinkel AJ, Snieder H, Biino G, Schmidt R, Schmidt H, Bandinelli S, Dedoussis G, Thanaraj TA, **Kardia SLR**, Peyser PA, Kato N, Schulze MB, Girotto G, Böger CA, Jung B, Joshi PK, Bennett DA, De Jager PL, Lu X, Mamakou V, Brown M, Caulfield MJ, Munroe PB, Guo X, Ciullo M, Jonas JB, Samani NJ, Kaprio J, Pajukanta P, Tusié-Luna T, Aguilar-Salinas CA, Adair LS, Bechayda SA, de Silva HJ, Wickremasinghe AR, Krauss RM, Wu JY, Zheng W, Hollander AI, Bharadwaj D, Correa A, Wilson JG, Lind L, Heng CK, Nelson AE, Golightly YM, Wilson JF, Penninx B, Kim HL, Attia J, Scott RJ, Rao DC, Arnett DK, Hunt SC, Walker M, Koistinen HA, Chandak GR, Mercader JM, Costanzo MC, Jang D, Burtt NP, Villalpando CG, Orozco L, Fornage M, Tai E, van Dam RM, Lehtimäki T, Chaturvedi N, Yokota M, Liu J, Reilly DF, McKnight AJ, Kee F, Jöckel KH, McCarthy MI, Palmer CNA, Vitart V, Hayward C, Simonsick E, van Duijn CM, Jin ZB, Qu J, Hishigaki H, Lin X, März W, Gudnason V, Tardif JC, Lettre G, Hart LM', Elders PJM, Damrauer SM, Kumari M, Kivimaki M, van der Harst P, Spector TD, Loos RJF, Province MA, Parra EJ, Cruz M, Psaty BM, Brändlund I, Pramstaller PP, Rotimi CN, Christensen K, Ripatti S, Widén E, Hakonarson H, Grant SFA, Kiemeney LALM, de Graaf J, Loeffler M, Kronenberg F, Gu D, Erdmann J, Schunkert H, Franks PW, Linneberg A, Jukema JW, Khera AV, Männikkö M, Jarvelin MR, Katalik Z, Francesco C, Mook-Kanamori DO, van Dijk KW, Watkins H, Strachan DP, Grarup N, Sever P, Poulter N, Chuang LM, Rotter JI, Dantoft TM, Karpe F, Neville MJ, Timpson NJ, Cheng CY, Wong TY, Khor CC, Li H, Sabanayagam C, Peters A, Gieger C, Hattersley AT, Pedersen NL, Magnusson PKE, Boomsma DI, Willemse AHM, Cupples L, van Meurs JBJ, Ghanbari M, Gordon-Larsen P, Huang W, Kim YJ, Tabara Y, Wareham NJ, Langenberg C, Zeggini E, Kuusisto J, Laakso M, Ingelsson E, Abecasis G, Chambers JC, Kooner JS, de Vries PS, Morrison AC, Hazelhurst S, Ramsay M, North KE, Daviglus M, Kraft P, Martin NG, Whitfield JB, Abbas S, Saleheen D, Walters RG, Holmes MV, Black C, Smith BH, Baras A, Justice AE, Buring JE, Ridker PM, Chasman DI, Kooperberg C, Tamiya G, Yamamoto M, van Heel DA, Trembath RC, Wei WQ, Jarvik GP, Namjou B, Hayes MG, Ritchie MD, Jousilahti P, Salomaa V, Hveem K, Åsvold BO, Kubo M, Kamatani Y, Okada Y, Murakami Y, Kim BJ, Thorsteinsdóttir U, Stefansson K, Zhang J, Chen Y, Ho YL, Lynch JA, Rader DJ, Tsao PS, Chang KM, Cho K, O'Donnell CJ, Gaziano JM, Wilson PWF, Frayling TM, Hirschhorn JN, Kathiresan S, Mohlke KL, Sun YV, Morris AP, Boehnke M, Brown CD, Natarajan P, Deloukas P, Willer CJ, Assimes TL, Peloso GM. Implicating genes, pleiotropy, and sexual dimorphism at blood lipid loci through multi-ancestry meta-analysis. *Genome Biol.* 2022 Dec 27;23(1):268. doi: 10.1186/s13059-022-02837-1. PMID: 36575460; PMCID: PMC9793579.

429. Taylor JY, Huang Y, Zhao W, Wright ML, Wang Z, Hui Q, Potts-Thompson S, Barcelona V, Prescott L, Yao Y, Crusto C, **Kardia SLR**, Smith JA, Sun YV. Epigenome-wide association study of BMI in Black populations from InterGEN and GENOA. *Obesity (Silver Spring)*. 2023 Jan;31(1):243-255. doi: 10.1002/oby.23589. Epub 2022 Dec 7. PMID: 36479596; PMCID: PMC10107734.
430. Lee J, Petrosyan S, Khobragade P, Banerjee J, Chien S, Weerman B, Gross A, Hu P, Smith JA, Zhao W, Aksman L, Jain U, Shanthi GS, Kurup R, Raman A, Chakrabarti SS, Gambhir IS, Varghese M, John JP, Joshi H, Koul PA, Goswami D, Talukdar A, Mohanty RR, Yadati

YSR, Padmaja M, Sankhe L, Rajguru C, Gupta M, Kumar G, Dhar M, Jovicich J, Ganna A, Ganguli M, Chatterjee P, Singhal S, Bansal R, Bajpai S, Desai G, Bhatankar S, Rao AR, Sivakumar PT, Mulyala KP, Sinha P, Loganathan S, Meijer E, Angrisani M, Kim JK, Dey S, Arokiasamy P, Bloom DE, Toga AW, **Kardia SLR**, Langa K, Crimmins EM, Dey AB. Deep phenotyping and genomic data from a nationally representative study on dementia in India. *Sci Data.* 2023 Jan 20;10(1):45. doi: 10.1038/s41597-023-01941-6. PMID: 36670106; PMCID: PMC9852797.

431. Raj M, Ryan K, Amara PS, Nong P, Calhoun K, Trinidad MG, Thiel D, Spector-Bagdady K, De Vries R, **Kardia S**, Platt J. Policy Preferences Regarding Health Data Sharing Among Patients With Cancer: Public Deliberations. *JMIR Cancer.* 2023 Jan 31;9:e39631. doi: 10.2196/39631. PMID: 36719719; PMCID: PMC9929721.
432. Chen F, Wang X, Jang SK, Quach BC, Weissenkampen JD, Khunsriraksakul C, Yang L, Sauteraud R, Albert CM, Allred NDD, Arnett DK, Ashley-Koch AE, Barnes KC, Barr RG, Becker DM, Bielak LF, Bis JC, Blangero J, Boorgula MP, Chasman DI, Chavan S, Chen YI, Chuang LM, Correa A, Curran JE, David SP, Fuentes LL, Deka R, Duggirala R, Faul JD, Garrett ME, Gharib SA, Guo X, Hall ME, Hawley NL, He J, Hobbs BD, Hokanson JE, Hsiung CA, Hwang SJ, Hyde TM, Irvin MR, Jaffe AE, Johnson EO, Kaplan R, **Kardia SLR**, Kaufman JD, Kelly TN, Kleinman JE, Kooperberg C, Lee IT, Levy D, Lutz SM, Manichaikul AW, Martin LW, Marx O, McGarvey ST, Minster RL, Moll M, Moussa KA, Naseri T, North KE, Oelsner EC, Peralta JM, Peyser PA, Psaty BM, Rafaels N, Raffield LM, Reupena MS, Rich SS, Rotter JI, Schwartz DA, Shadyab AH, Sheu WH, Sims M, Smith JA, Sun X, Taylor KD, Telen MJ, Watson H, Weeks DE, Weir DR, Yanek LR, Young KA, Young KL, Zhao W, Hancock DB, Jiang B, Vrieze S, Liu DJ. Multi-ancestry transcriptome-wide association analyses yield insights into tobacco use biology and drug repurposing. *Nat Genet.* 2023 Feb;55(2):291-300. doi: 10.1038/s41588-022-01282-x. Epub 2023 Jan 26. PMID: 36702996; PMCID: PMC9925385.
433. Yang Y, Knol MJ, Wang R, Mishra A, Liu D, Luciano M, Teumer A, Armstrong N, Bis JC, Jhun MA, Li S, Adams HHH, Aziz NA, Bastin ME, Bourgey M, Brody JA, Frenzel S, Gottesman RF, Hosten N, Hou L, **Kardia SLR**, Lohner V, Marquis P, Maniega SM, Satizabal CL, Sorond FA, Valdés Hernández MC, van Duijn CM, Vernooij MW, Wittfeld K, Yang Q, Zhao W, Boerwinkle E, Levy D, Deary IJ, Jiang J, Mather KA, Mosley TH, Psaty BM, Sachdev PS, Smith JA, Sotoodehnia N, DeCarli CS, Breteler MMB, Ikram MA, Grabe HJ, Wardlaw J, Longstreth WT, Launer LJ, Seshadri S, Debette S, Fornage M. Epigenetic and integrative cross-omics analyses of cerebral white matter hyperintensities on MRI. *Brain.* 2023 Feb 13;146(2):492-506. doi: 10.1093/brain/awac290. PMID: 35943854; PMCID: PMC9924914.
434. Modell SM, Ponte AH, Director HR, Pettersen SK, **Kardia SLR**, Goltz HH. Breast Cancer Prevention Misinformation on Pinterest: One Side of a Thick Coin. *Am J Public Health.* 2023 Mar;113(3):e1-e2. doi: 10.2105/AJPH.2022.307203. PMID: 36791357; PMCID: PMC9932377.

435. Pan Y, Sun X, Mi X, Huang Z, Hsu Y, Hixson JE, Munzy D, Metcalf G, Franceschini N, Tin A, Köttgen A, Francis M; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium TOPMed Kidney Function Working Group; Brody JA, Kestenbaum B, Sitlani CM, Mychaleckyj JC, Kramer H, Lange LA, Guo X, Hwang SJ, Irvin MR, Smith JA, Yanek LR, Vaidya D, Chen YI, Fornage M, Lloyd-Jones DM, Hou L, Mathias RA, Mitchell BD, Peyser PA, **Kardia SLR**, Arnett DK, Correa A, Raffield LM, Vasan RS, Cupple LA, Levy D, Kaplan RC, North KE, Rotter JI, Kooperberg C, Reiner AP, Psaty BM, Tracy RP, Gibbs RA, Morrison AC, Feldman H, Boerwinkle E, He J, Kelly TN; CRIC Study Investigators. Whole-exome sequencing study identifies four novel gene loci associated with diabetic kidney disease. *Hum Mol Genet.* 2023 Mar 6;32(6):1048-1060. doi: 10.1093/hmg/ddac290. PMID: 36444934; PMCID: PMC9990994.
436. Suzuki K, Hatzikotoulas K, Southam L, Taylor HJ, Yin X, Lorenz KM, Mandla R, Huerta-Chagoya A, Rayner NW, Bocher O, Ana Luiza de SVA, Sonehara K, Namba S, Lee SSK, Preuss MH, Petty LE, Schroeder P, Vanderwerff B, Kals M, Bragg F, Lin K, Guo X, Zhang W, Yao J, Kim YJ, Graff M, Takeuchi F, Nano J, Lamri A, Nakatouchi M, Moon S, Scott RA, Cook JP, Lee JJ, Pan I, Taliun D, Parra EJ, Chai JF, Bielak LF, Tabara Y, Hai Y, Thorleifsson G, Grarup N, Sofer T, Wuttke M, Sarnowski C, Gieger C, Nousome D, Trompet S, Kwak SH, Long J, Sun M, Tong L, Chen WM, Nongmaithem SS, Noordam R, Lim VJY, Tam CHT, Joo YY, Chen CH, Raffield LM, Prins BP, Nicolas A, Yanek LR, Chen G, Brody JA, Kabagambe E, An P, Xiang AH, Choi HS, Cade BE, Tan J, Alaine Broadaway K, Williamson A, Kamali Z, Cui J, Adair LS, Adeyemo A, Aguilar-Salinas CA, Ahluwalia TS, Anand SS, Bertoni A, Bork-Jensen J, Brandslund I, Buchanan TA, Burant CF, Butterworth AS, Canouil M, Chan JCN, Chang LC, Chee ML, Chen J, Chen SH, Chen YT, Chen Z, Chuang LM, Cushman M, Danesh J, Das SK, Janaka de Silva H, Dedoussis G, Dimitrov L, Doumatey AP, Du S, Duan Q, Eckardt KU, Emery LS, Evans DS, Evans MK, Fischer K, Floyd JS, Ford I, Franco OH, Frayling TM, Freedman BI, Genter P, Gerstein HC, Giedraitis V, González-Villalpando C, González-Villalpando ME, Gordon-Larsen P, Gross M, Guare LA, Hackinger S, Han S, Hattersley AT, Herder C, Horikoshi M, Howard AG, Hsueh W, Huang M, Huang W, Hung YJ, Hwang MY, Hwu CM, Ichihara S, Ikram MA, Ingelsson M, Islam MT, Isono M, Jang HM, Jasmine F, Jiang G, Jonas JB, Jørgensen T, Kandeel FR, Kasturiratne A, Katsuya T, Kaur V, Kawaguchi T, Keaton JM, Kho AN, Khor CC, Kibriya MG, Kim DH, Kronenberg F, Kuusisto J, Läll K, Lange LA, Lee KM, Lee MS, Lee NR, Leong A, Li L, Li Y, Li-Gao R, Lithgart S, Lindgren CM, Linneberg A, Liu CT, Liu J, Locke AE, Louie T, Luan J, Luk AO, Luo X, Lv J, Lynch JA, Lyssenko V, Maeda S, Mamakou V, Mansuri SR, Matsuda K, Meitinger T, Metspalu A, Mo H, Morris AD, Nadler JL, Nalls MA, Nayak U, Ntalla I, Okada Y, Orozco L, Patel SR, Patil S, Pei P, Pereira MA, Peters A, Pirie FJ, Polikowsky HG, Porneala B, Prasad G, Rasmussen-Torvik LJ, Reiner AP, Roden M, Rohde R, Roll K, Sabanayagam C, Sandow K, Sankareswaran A, Sattar N, Schönherr S, Shahriar M, Shen B, Shi J, Shin DM, Shojima N, Smith JA, So WY, Stančáková A, Steinhorsdottir V, Stilp AM, Strauch K, Taylor KD, Thorand B, Thorsteinsdottir U, Tomlinson B, Tran TC, Tsai FJ, Tuomilehto J, Tusie-Luna T, Udler MS, Valladares-Salgado A, van Dam RM, van Klinken JB, Varma R, Wacher-Rodarte N, Wheeler E, Wickremasinghe AR, van Dijk KW, Witte DR, Yajnik CS, Yamamoto K, Yamamoto K, Yoon K, Yu C, Yuan JM, Yusuf S, Zawistowski M, Zhang L, Zheng W; VA Million Veteran Program, AMED GRIFIN Diabetes Initiative Japan;

Project BJ, BioBank PM, Center RG, Consortium E; International Consortium for Blood Pressure (ICBP); Meta-Analyses of Glucose and Insulin-Related Traits Consortium (MAGIC); Raffel LJ, Igase M, Ipp E, Redline S, Cho YS, Lind L, Province MA, Fornage M, Hanis CL, Ingelsson E, Zonderman AB, Psaty BM, Wang YX, Rotimi CN, Becker DM, Matsuda F, Liu Y, Yokota M, **Kardia SLR**, Peyser PA, Pankow JS, Engert JC, Bonnefond A, Froguel P, Wilson JG, Sheu WHH, Wu JY, Geoffrey Hayes M, Ma RCW, Wong TY, Mook-Kanamori DO, Tuomi T, Chandak GR, Collins FS, Bharadwaj D, Paré G, Sale MM, Ahsan H, Motala AA, Shu XO, Park KS, Jukema JW, Cruz M, Chen YI, Rich SS, McKean-Cowdin R, Grallert H, Cheng CY, Ghanbari M, Tai ES, Dupuis J, Kato N, Laakso M, Kötgen A, Koh WP, Bowden DW, Palmer CNA, Kooner JS, Kooperberg C, Liu S, North KE, Saleheen D, Hansen T, Pedersen O, Wareham NJ, Lee J, Kim BJ, Millwood IY, Walters RG, Stefansson K, Goodarzi MO, Mohlke KL, Langenberg C, Haiman CA, Loos RJF, Florez JC, Rader DJ, Ritchie MD, Zöllner S, Mägi R, Denny JC, Yamauchi T, Kadowaki T, Chambers JC, Ng MCY, Sim X, Below JE, Tsao PS, Chang KM, McCarthy MI, Meigs JB, Mahajan A, Spracklen CN, Mercader JM, Boehnke M, Rotter JI, Vujkovic M, Voight BF, Morris AP, Zeggini E. Multi-ancestry genome-wide study in >2.5 million individuals reveals heterogeneity in mechanistic pathways of type 2 diabetes and complications. medRxiv [Preprint]. 2023 Mar 31:2023.03.31.23287839. doi: 10.1101/2023.03.31.23287839. PMID: 37034649; PMCID: PMC10081410.

437. Weinstock JS, Gopakumar J, Burugula BB, Uddin MM, Jahn N, Belk JA, Bouzid H, Daniel B, Miao Z, Ly N, Mack TM, Luna SE, Prothro KP, Mitchell SR, Laurie CA, Broome JG, Taylor KD, Guo X, Sinner MF, von Falkenhausen AS, Kääb S, Shuldiner AR, O'Connell JR, Lewis JP, Boerwinkle E, Barnes KC, Chami N, Kenny EE, Loos RJF, Fornage M, Hou L, Lloyd-Jones DM, Redline S, Cade BE, Psaty BM, Bis JC, Brody JA, Silverman EK, Yun JH, Qiao D, Palmer ND, Freedman BI, Bowden DW, Cho MH, DeMeo DL, Vasan RS, Yanek LR, Becker LC, **Kardia SLR**, Peyser PA, He J, Rienstra M, Van der Harst P, Kaplan R, Heckbert SR, Smith NL, Wiggins KL, Arnett DK, Irvin MR, Tiwari H, Cutler MJ, Knight S, Muhlestein JB, Correa A, Raffield LM, Gao Y, de Andrade M, Rotter JI, Rich SS, Tracy RP, Konkle BA, Johnsen JM, Wheeler MM, Smith JG, Melander O, Nilsson PM, Custer BS, Duggirala R, Curran JE, Blangero J, McGarvey S, Williams LK, Xiao S, Yang M, Gu CC, Chen YI, Lee WJ, Marcus GM, Kane JP, Pullinger CR, Shoemaker MB, Darbar D, Roden DM, Albert C, Kooperberg C, Zhou Y, Manson JE, Desai P, Johnson AD, Mathias RA; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; Blackwell TW, Abecasis GR, Smith AV, Kang HM, Satpathy AT, Natarajan P, Kitzman JO, Whitsel EA, Reiner AP, Bick AG, Jaiswal S. Aberrant activation of TCL1A promotes stem cell expansion in clonal haematopoiesis. Nature. 2023 Apr;616(7958):755-763. doi: 10.1038/s41586-023-05806-1. Epub 2023 Apr 12. PMID: 37046083; PMCID: PMC10360040.
438. Weinstock JS, Laurie CA, Broome JG, Taylor KD, Guo X, Shuldiner AR, O'Connell JR, Lewis JP, Boerwinkle E, Barnes KC, Chami N, Kenny EE, Loos RJF, Fornage M, Redline S, Cade BE, Gilliland FD, Chen Z, Gauderman WJ, Kumar R, Grammer L, Schleimer RP, Psaty BM, Bis JC, Brody JA, Silverman EK, Yun JH, Qiao D, Weiss ST, Lasky-Su J, DeMeo DL, Palmer ND, Freedman BI, Bowden DW, Cho MH, Vasan RS, Johnson AD, Yanek LR, Becker LC, **Kardia S**, He J, Kaplan R, Heckbert SR, Smith NL, Wiggins KL,

Arnett DK, Irvin MR, Tiwari H, Correa A, Raffield LM, Gao Y, de Andrade M, Rotter JI, Rich SS, Manichaikul AW, Konkle BA, Johnsen JM, Wheeler MM, Custer BS, Duggirala R, Curran JE, Blangero J, Gui H, Xiao S, Williams LK, Meyers DA, Li X, Ortega V, McGarvey S, Gu CC, Chen YI, Lee WJ, Shoemaker MB, Darbar D, Roden D, Albert C, Kooperberg C, Desai P, Blackwell TW, Abecasis GR, Smith AV, Kang HM, Mathias R, Natarajan P, Jaiswal S, Reiner AP, Bick AG; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium. The genetic determinants of recurrent somatic mutations in 43,693 blood genomes. *Sci Adv.* 2023 Apr 28;9(17):eabm4945. doi: 10.1126/sciadv.abm4945. Epub 2023 Apr 26. PMID: 37126548; PMCID: PMC10132750.

439. Nong P, Creary M, Platt J, **Kardia S**. A Critical Analysis of White Racial Framing and Comfort with Medical Research. *AJOB Empir Bioeth.* 2023 Apr-Jun;14(2):65-73. doi: 10.1080/23294515.2022.2160506. Epub 2023 Jan 3. PMID: 36594825; PMCID: PMC10182236.
440. Zhang Y, Liu X, Wiggins KL, Kurniansyah N, Guo X, Rodrigue AL, Zhao W, Yanek LR, Ratliff SM, Pitsillides A, Aguirre Patiño JS, Sofer T, Arking DE, Austin TR, Beiser AS, Blangero J, Boerwinkle E, Bressler J, Curran JE, Hou L, Hughes TM, **Kardia SLR**, Launer LJ, Levy D, Mosley TH, Nasrallah IM, Rich SS, Rotter JI, Seshadri S, Tarraf W, González KA, Ramachandran V, Yaffe K, Nyquist PA, Psaty BM, DeCarli CS, Smith JA, Glahn DC, González HM, Bis JC, Fornage M, Heckbert SR, Fitzpatrick AL, Liu C, Satizabal CL; NHLBI Trans-Omics for Precision Medicine (TOPMed) program, Mitochondrial and Neurocognitive Working Groups. Association of Mitochondrial DNA Copy Number With Brain MRI Markers and Cognitive Function: A Meta-analysis of Community-Based Cohorts. *Neurology.* 2023 May 2;100(18):e1930-e1943. doi: 10.1212/WNL.0000000000207157. Epub 2023 Mar 16. PMID: 36927883; PMCID: PMC10159770.
441. Mathieson I, Day FR, Barban N, Tropf FC, Brazel DM; eQTLGen Consortium; BIOS Consortium; Vaez A, van Zuydam N, Bitarello BD, Gardner EJ, Akimova ET, Azad A, Bergmann S, Bielak LF, Boomsma DI, Bosak K, Brumat M, Buring JE, Cesarini D, Chasman DI, Chavarro JE, Cocca M, Concas MP, Davey Smith G, Davies G, Deary IJ, Esko T, Faul JD; FinnGen Study; Franco O, Ganna A, Gaskins AJ, Gelemanovic A, de Geus EJC, Gieger C, Girotto G, Gopinath B, Grabe HJ, Gunderson EP, Hayward C, He C, van Heemst D, Hill WD, Hoffmann ER, Homuth G, Hottenga JJ, Huang H, Hyppönen E, Ikram MA, Jansen R, Johannesson M, Kamali Z, **Kardia SLR**, Kavousi M, Kifley A, Kiiskinen T, Kraft P, Kühnel B, Langenberg C, Liew G; Lifelines Cohort Study; Lind PA, Luan J, Mägi R, Magnusson PKE, Mahajan A, Martin NG, Mbarek H, McCarthy MI, McMahon G, Medland SE, Meitinger T, Metspalu A, Mihailov E, Milani L, Missmer SA, Mitchell P, Møllegaard S, Mook-Kanamori DO, Morgan A, van der Most PJ, de Mutsert R, Nauck M, Nolte IM, Noordam R, Penninx BWJH, Peters A, Peyser PA, Polášek O, Power C, Pribisalic A, Redmond P, Rich-Edwards JW, Ridker PM, Rietveld CA, Ring SM, Rose LM, Rueedi R, Shukla V, Smith JA, Stankovic S, Stefánsson K, Stöckl D, Strauch K, Swertz MA, Teumer A, Thorleifsson G, Thorsteinsdóttir U, Thurik AR, Timpson NJ, Turman C, Uitterlinden AG, Waldenberger M, Wareham NJ, Weir DR, Willemsen G, Zhao JH, Zhao W, Zhao Y, Snieder H, den Hoed M, Ong KK, Mills MC, Perry JRB. Genome-wide analysis identifies genetic effects on reproductive success and ongoing natural

selection at the FADS locus. *Nat Hum Behav.* 2023 May;7(5):790-801. doi: 10.1038/s41562-023-01528-6. Epub 2023 Mar 2. PMID: 36864135.

442. Shang L, Zhao W, Wang YZ, Li Z, Choi JJ, Kho M, Mosley TH, **Kardia SLR**, Smith JA, Zhou X. meQTL mapping in the GENOA study reveals genetic determinants of DNA methylation in African Americans. *Nat Commun.* 2023 May 11;14(1):2711. doi: 10.1038/s41467-023-37961-4. PMID: 37169753; PMCID: PMC10175543.
443. Huffman JE, Nicolas J, Hahn J, Heath AS, Raffield LM, Yanek LR, Brody JA, Thibord F, Almasy L, Bartz TM, Bielak LF, Bowler RP, Carrasquilla GD, Chasman DI, Chen MH, Emmert DB, Ghanbari M, Haessle J, Hottenga JJ, Kleber ME, Le NQ, Lee J, Lewis JP, Li-Gao R, Luan J, Malmberg A, Mangino M, Marioni RE, Martinez-Perez A, Pankratz N, Polasek O, Richmond A, Rodriguez BA, Rotter JI, Steri M, Suchon P, Trompet S, Weiss S, Zare M, Auer P, Cho MH, Christofidou P, Davies G, de Geus E, Deleuze JF, Delgado GE, Ekunwe L, Faraday N, Gögele M, Greinacher A, He G, Howard T, Joshi PK, Kilpeläinen TO, Lahti J, Linneberg A, Naitza S, Noordam R, Paüls-Vergés F, Rich SS, Rosendaal FR, Rudan I, Ryan KA, Souto JC, van Rooij FJ, Wang H, Zhao W, Becker LC, Beswick A, Brown MR, Cade BE, Campbell H, Cho K, Crapo JD, Curran JE, de Maat MP, Doyle M, Elliott P, Floyd JS, Fuchsberger C, Grarup N, Guo X, Harris SE, Hou L, Kolcic I, Kooperberg C, Menni C, Nauck M, O'Connell JR, Orrù V, Psaty BM, Räikkönen K, Smith JA, Soria JM, Stott DJ, van Hylckama Vlieg A, Watkins H, Willemse G, Wilson P, Ben-Shlomo Y, Blangero J, Boomsma D, Cox SR, Dehghan A, Eriksson JG, Fiorillo E, Fornage M, Hansen T, Hayward C, Ikram MA, Jukema JW, **Kardia SL**, Lange LA, März W, Mathias RA, Mitchell BD, Mook-Kanamori DO, Morange PE, Pedersen O, Pramstaller PP, Redline S, Reiner A, Ridker PM, Silverman EK, Spector TD, Völker U, Wareham N, Wilson JF, Yao J; VA Million Veteran Program; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; Trégouët DA, Johnson AD, Wolberg AS, de Vries PS, Sabater-Lleal M, Morrison AC, Smith NL. Whole genome analysis of plasma fibrinogen reveals population-differentiated genetic regulators with putative liver roles. *medRxiv* [Preprint]. 2023 Jun 12:2023.06.07.23291095. doi: 10.1101/2023.06.07.23291095. PMID: 37398003; PMCID: PMC10312878.
444. Graham SE, Clarke SL, Wu KH, Kanoni S, Zajac GJM, Ramdas S, Surakka I, Ntalla I, Vedantam S, Winkler TW, Locke AE, Marouli E, Hwang MY, Han S, Narita A, Choudhury A, Bentley AR, Ekoru K, Verma A, Trivedi B, Martin HC, Hunt KA, Hui Q, Klarin D, Zhu X, Thorleifsson G, Helgadottir A, Gudbjartsson DF, Holm H, Olafsson I, Akiyama M, Sakaue S, Terao C, Kanai M, Zhou W, Brumpton BM, Rasheed H, Ruotsalainen SE, Havulinna AS, Veturi Y, Feng Q, Rosenthal EA, Lingren T, Pacheco JA, Pendergrass SA, Haessler J, Julianini F, Bradford Y, Miller JE, Campbell A, Lin K, Millwood IY, Hindy G, Rasheed A, Faul JD, Zhao W, Weir DR, Turman C, Huang H, Graff M, Mahajan A, Brown MR, Zhang W, Yu K, Schmidt EM, Pandit A, Gustafsson S, Yin X, Luan J, Zhao JH, Matsuda F, Jang HM, Yoon K, Medina-Gomez C, Pitsillides A, Hottenga JJ, Willemse G, Wood AR, Ji Y, Gao Z, Haworth S, Mitchell RE, Chai JF, Aadahl M, Yao J, Manichaikul A, Warren HR, Ramirez J, Bork-Jensen J, Kårhus LL, Goel A, Sabater-Lleal M, Noordam R, Sidore C, Fiorillo E, McDaid AF, Marques-Vidal P, Wielscher M, Trompet S, Sattar N, Møllehave LT, Thuesen BH, Munz M, Zeng L, Huang J, Yang B,

Poveda A, Kurbasic A, Lamina C, Forer L, Scholz M, Galesloot TE, Bradfield JP, Daw EW, Zmuda JM, Mitchell JS, Fuchsberger C, Christensen H, Brody JA, Feitosa MF, Wojczynski MK, Preuss M, Mangino M, Christofidou P, Verweij N, Benjamins JW, Engmann J, Kember RL, Sliker RC, Lo KS, Zilhao NR, Le P, Kleber ME, Delgado GE, Huo S, Ikeda DD, Iha H, Yang J, Liu J, Leonard HL, Marten J, Schmidt B, Arendt M, Smyth LJ, Cañadas-Garre M, Wang C, Nakatuchi M, Wong A, Hutri-Kähönen N, Sim X, Xia R, Huerta-Chagoya A, Fernandez-Lopez JC, Lyssenko V, Ahmed M, Jackson AU, Yousri NA, Irvin MR, Oldmeadow C, Kim HN, Ryu S, Timmers PRHJ, Arbeeva L, Dorajoo R, Lange LA, Chai X, Prasad G, Lorés-Motta L, Pauper M, Long J, Li X, Theusch E, Takeuchi F, Spracklen CN, Loukola A, Bollepalli S, Warner SC, Wang YX, Wei WB, Nutile T, Ruggiero D, Sung YJ, Hung YJ, Chen S, Liu F, Yang J, Kentistou KA, Gorski M, Brumat M, Meidner K, Bielak LF, Smith JA, Hebbar P, Farmaki AE, Hofer E, Lin M, Xue C, Zhang J, Concas MP, Vaccariu S, van der Most PJ, Pitkänen N, Cade BE, Lee J, van der Laan SW, Chitrala KN, Weiss S, Zimmermann ME, Lee JY, Choi HS, Nethander M, Freitag-Wolf S, Southam L, Rayner NW, Wang CA, Lin SY, Wang JS, Couture C, Lyytikäinen LP, Nikus K, Cuellar-Partida G, Vestergaard H, Hildalgo B, Giannakopoulou O, Cai Q, Obura MO, van Setten J, Li X, Schwander K, Terzikhan N, Shin JH, Jackson RD, Reiner AP, Martin LW, Chen Z, Li L, Highland HM, Young KL, Kawaguchi T, Thiery J, Bis JC, Nadkarni GN, Launer LJ, Li H, Nalls MA, Raitakari OT, Ichihara S, Wild SH, Nelson CP, Campbell H, Jäger S, Nabika T, Al-Mulla F, Niinikoski H, Braund PS, Kolcic I, Kovacs P, Giardoglou T, Katsuya T, Bhatti KF, de Kleijn D, de Borst GJ, Kim EK, Adams HHH, Ikram MA, Zhu X, Asselbergs FW, Kraaijeveld AO, Beulens JWJ, Shu XO, Rallidis LS, Pedersen O, Hansen T, Mitchell P, Hewitt AW, Kähönen M, Pérusse L, Bouchard C, Tönjes A, Chen YI, Pennell CE, Mori TA, Lieb W, Franke A, Ohlsson C, Mellström D, Cho YS, Lee H, Yuan JM, Koh WP, Rhee SY, Woo JT, Heid IM, Stark KJ, Völzke H, Homuth G, Evans MK, Zonderman AB, Polasek O, Pasterkamp G, Hoefer IE, Redline S, Pahkala K, Oldehinkel AJ, Snieder H, Biino G, Schmidt R, Schmidt H, Chen YE, Bandinelli S, Dedoussis G, Thanaraj TA, **Kardia SLR**, Kato N, Schulze MB, Girotto G, Jung B, Böger CA, Joshi PK, Bennett DA, De Jager PL, Lu X, Mamakou V, Brown M, Caulfield MJ, Munroe PB, Guo X, Ciullo M, Jonas JB, Samani NJ, Kaprio J, Pajukanta P, Adair LS, Bechayda SA, de Silva HJ, Wickremasinghe AR, Krauss RM, Wu JY, Zheng W, den Hollander AI, Bharadwaj D, Correa A, Wilson JG, Lind L, Heng CK, Nelson AE, Golightly YM, Wilson JF, Penninx B, Kim HL, Attia J, Scott RJ, Rao DC, Arnett DK, Hunt SC, Walker M, Koistinen HA, Chandak GR, Yajnik CS, Mercader JM, Tusié-Luna T, Aguilar-Salinas CA, Villalpando CG, Orozco L, Fornage M, Tai ES, van Dam RM, Lehtimäki T, Chaturvedi N, Yokota M, Liu J, Reilly DF, McKnight AJ, Kee F, Jöckel KH, McCarthy MI, Palmer CNA, Vitart V, Hayward C, Simonsick E, van Duijn CM, Lu F, Qu J, Hishigaki H, Lin X, März W, Parra EJ, Cruz M, Gudnason V, Tardif JC, Lettre G, 't Hart LM, Elders PJM, Damrauer SM, Kumari M, Kivimaki M, van der Harst P, Spector TD, Loos RJF, Province MA, Psaty BM, Brandslund I, Pramstaller PP, Christensen K, Ripatti S, Widén E, Hakonarson H, Grant SFA, Kiemeney LALM, de Graaf J, Loeffler M, Kronenberg F, Gu D, Erdmann J, Schunkert H, Franks PW, Linneberg A, Jukema JW, Khera AV, Männikkö M, Jarvelin MR, Katalik Z, Cucca F, Mook-Kanamori DO, van Dijk KW, Watkins H, Strachan DP, Grarup N, Sever P, Poulter N, Rotter JI, Dantoft TM, Karpe F, Neville MJ, Timpson NJ, Cheng CY, Wong TY, Khor CC, Sabanayagam C, Peters A, Gieger C, Hattersley AT, Pedersen NL, Magnusson PKE, Boomsma DI, de Geus EJC,

Cupples LA, van Meurs JBJ, Ghanbari M, Gordon-Larsen P, Huang W, Kim YJ, Tabara Y, Wareham NJ, Langenberg C, Zeggini E, Kuusisto J, Laakso M, Ingelsson E, Abecasis G, Chambers JC, Kooner JS, de Vries PS, Morrison AC, North KE, Daviglus M, Kraft P, Martin NG, Whitfield JB, Abbas S, Saleheen D, Walters RG, Holmes MV, Black C, Smith BH, Justice AE, Baras A, Buring JE, Ridker PM, Chasman DI, Kooperberg C, Wei WQ, Jarvik GP, Namjou B, Hayes MG, Ritchie MD, Jousilahti P, Salomaa V, Hveem K, Åsvold BO, Kubo M, Kamatani Y, Okada Y, Murakami Y, Thorsteinsdottir U, Stefansson K, Ho YL, Lynch JA, Rader DJ, Tsao PS, Chang KM, Cho K, O'Donnell CJ, Gaziano JM, Wilson P, Rotimi CN, Hazelhurst S, Ramsay M, Trembath RC, van Heel DA, Tamiya G, Yamamoto M, Kim BJ, Mohlke KL, Frayling TM, Hirschhorn JN, Kathiresan S; VA Million Veteran Program; Global Lipids Genetics Consortium; Boehnke M, Natarajan P, Peloso GM, Brown CD, Morris AP, Assimes TL, Deloukas P, Sun YV, Willer CJ. Author Correction: The power of genetic diversity in genome-wide association studies of lipids. *Nature*. 2023 Jun;618(7965):E19-E20. doi: 10.1038/s41586-023-06194-2. Erratum for: *Nature*. 2021 Dec;600(7890):675-679. PMID: 37237109; PMCID: PMC10355188.

445. Platt J, Nong P, Merid B, Raj M, Cope E, **Kardia S**, Creary M. Applying anti-racist approaches to informatics: a new lens on traditional frames. *J Am Med Inform Assoc*. 2023 Jul 4:ocad123. doi: 10.1093/jamia/ocad123. Epub ahead of print. PMID: 37403330.
446. van de Vegte YJ, Eppinga RN, van der Ende MY, Hagemeijer YP, Mahendran Y, Salfati E, Smith AV, Tan VY, Arking DE, Ntalla I, Appel EV, Schurmann C, Brody JA, Rueedi R, Polasek O, Sveinbjornsson G, Lecoeur C, Ladenvall C, Zhao JH, Isaacs A, Wang L, Luan J, Hwang SJ, Mononen N, Auro K, Jackson AU, Bielak LF, Zeng L, Shah N, Nethander M, Campbell A, Rankinen T, Pechlivanis S, Qi L, Zhao W, Rizzi F, Tanaka T, Robino A, Cocca M, Lange L, Müller-Nurasyid M, Roselli C, Zhang W, Kleber ME, Guo X, Lin HJ, Pavani F, Galesloot TE, Noordam R, Milaneschi Y, Schraut KE, den Hoed M, Degenhardt F, Trompet S, van den Berg ME, Pistis G, Tham YC, Weiss S, Sim XS, Li HL, van der Most PJ, Nolte IM, Lyytikäinen LP, Said MA, Witte DR, Iribarren C, Launer L, Ring SM, de Vries PS, Sever P, Linneberg A, Bottinger EP, Padmanabhan S, Psaty BM, Sotoodehnia N, Kolcic I; DCCT/EDIC Research Group; Arnar DO, Gudbjartsson DF, Holm H, Balkau B, Silva CT, Newton-Cheh CH, Nikus K, Salo P, Mohlke KL, Peyser PA, Schunkert H, Lorentzon M, Lahti J, Rao DC, Cornelis MC, Faul JD, Smith JA, Stolarz-Skrzypek K, Bandinelli S, Concas MP, Sinagra G, Meitinger T, Waldenberger M, Sinner MF, Strauch K, Delgado GE, Taylor KD, Yao J, Foco L, Melander O, de Graaf J, de Mutsert R, de Geus EJC, Johansson Å, Joshi PK, Lind L, Franke A, Macfarlane PW, Tarasov KV, Tan N, Felix SB, Tai ES, Quek DQ, Snieder H, Ormel J, Ingelsson M, Lindgren C, Morris AP, Raitakari OT, Hansen T, Assimes T, Gudnason V, Timpson NJ, Morrison AC, Munroe PB, Strachan DP, Grarup N, Loos RJF, Heckbert SR, Vollenweider P, Hayward C, Stefansson K, Froguel P, Groop L, Wareham NJ, van Duijn CM, Feitosa MF, O'Donnell CJ, Kähönen M, Perola M, Boehnke M, **Kardia SLR**, Erdmann J, Palmer CNA, Ohlsson C, Porteous DJ, Eriksson JG, Bouchard C, Moebus S, Kraft P, Weir DR, Cusi D, Ferrucci L, Ulivi S, Girotto G, Correa A, Kääb S, Peters A, Chambers JC, Kooner JS, März W, Rotter JI, Hicks AA, Smith JG, Kiemeneij LALM, Mook-Kanamori DO, Penninx BWJH, Gyllensten U, Wilson JF, Burgess S, Sundström J, Lieb W, Jukema JW, Eijgelsheim M, Lakatta ELM, Cheng CY, Dörr M, Wong TY, Sabanayagam C, Oldehinkel

AJ, Riese H, Lehtimäki T, Verweij N, van der Harst P. Genetic insights into resting heart rate and its role in cardiovascular disease. *Nat Commun.* 2023 Aug 2;14(1):4646. doi: 10.1038/s41467-023-39521-2. PMID: 37532724; PMCID: PMC10397318.

*Reviews and Book Chapters*

1. Sing CF, **Reilly SL** (1993) Genetics of common diseases that aggregate, but do not segregate, in families. In: Sing CF, Hanis CL (eds): *Genetics of Cellular, Individual, Family and Population Variability*. New York: Oxford University Press, pp 140-161.
2. Sing CF, Haviland MB, Templeton AR, **Reilly SL** (1995) Alternative genetic strategies for predicting risk of atherosclerosis. In: Woodford FP, Davignon J, Sniderman AD (eds): *Atherosclerosis X. Excerpta Medica International Congress Series*, Amsterdam: Elsevier Science Publishers B.V., pp 638-644.
3. **Kardia SLR**, Stengård JH, Templeton AR (1999) Contributions of an Evolutionary Perspective to Studying the Genetic Architecture of Susceptibility to Cardiovascular Disease. In: Stearns S. (ed): *Evolution in Health and Disease*. Oxford University Press, pp 231-245.
4. Maynard-Smith J, Barker DJP, Finch CE, **Kardia SLR**, Eaton SB, Kirkwood TBL, Partidge L, Nesse R, Williams GC (1999) The Evolution of Non-Infectious and Degenerative Disease. In: Stearns S. (ed): *Evolution in Health and Disease*. Oxford University Press, pp 267-272.
5. Pomerleau OF, **Kardia SLR** (1999) Genetic research on smoking. *Health Psychol* 18:3-6.
6. Sing, CF, **Kardia SLR** (2002) What Everybody Knows, But Most Deny, When Considering New Biotechnologies. In: Brungs R (ed): *Genetics/Nutrition ITest October 2001*. ITest Faith/Science, St. Louis, MO, pp 31-49.
7. **Kardia SLR** (2003) Gene environment interactions. In: Izzo and Black (eds) *Hypertension-A Primer*, American Heart Association. Lippincott Williams & Wilkins, Philadelphia, PA pp.221-224.
8. **Kardia SLR** (2005) Gene-Environment Interaction. In: Cooper DN (ed), *Encyclopedia of the Human Genome*. Nature Publishing Group, London, pp 624-627.
9. **Kardia SLR** (2007) Gene-Environment Interaction. In: *Encyclopedia of Life Sciences*. John Wiley & Sons, Ltd: Chichester.
10. 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*. Intech Open Science ISBN 978-953-51-0265-6.

11. Modell SM, **Kardia SLR**, Citrin T (2015) Enlarging the Social Definition of Harm to Include Genetics. In: Morris, MB (ed) Public Health and Harm Reduction: Principles, Perceptions and Programs. ISBN 978-1-63482-203-9.
12. Modell SM, Citrin T, Platt JE, **Kardia SLR** (2015) Distinctive Features of Public Health Ethics in the Domain of Expanded Genetic Screening and Population Biobanking. Patient Rights: Ethical Perspectives, Emerging Developments and Global Challenges. ISBN 978-1-63482-136-0.