March, 2026

CURRICULUM VITAE

Name	Xiaoling Wang
MCG Rank	Professor
MCG Title	Professor
Ofice Address	Georgia Prevention Institute, Augusta University Building HS1640, Augusta, GA, 30912
Office Phone	706-7216139

EDUCATION

College (MD) June 1997	Major in Preventive Medicine Hebei Medical University Shijiazhuang, P. R. China
Graduate (PhD) June 2002	Major in Genetic Epidemiology Chinese Academy of Medical Sciences & Peking Union Medical College (CAMS &PUMC) Beijing, P. R. China
Postgraduate courses March 2003	Advanced course on Methodology for Genetic Studies of Twins and Families (Boulder, USA)
Postdoctoral fellow March 2003-June 2006	Genetic Epidemiology Medical College of Georgia, Augusta University

PERSONAL STATEMENT

As a genetic epidemiologist with expertise in obesity, hypertension and cardiovascular disease, I am a strong proponent of multidisciplinary, collaborative research. The topics of my research range from genes related to cardiovascular disease to epigenetic regulation of complex traits such as obesity and hypertension. My research has been continuously funded by NIH and AHA. Up to now, I have published 138 peer reviewed English papers with 49 as first or corresponding author, many of them in high impact outlets and 8 having editorials. Besides research, I am involved in the teaching of two courses in the MCG School of Graduate Studies--Computational Methods in Genomics and Genetics, and Translational Genomics and Proteomics. I have been serving as a reviewer for many prestigious journals and several funding agencies including NIH and AHA. I have served as the Associate Editor of the journal *Clinical Epigenetics* responsible for the section of cardiovascular epigenetics for 4 years and currently is on the Editorial Board.

PROFESSIONAL EXPERIENCE

Academic Appointments

Since 07/2018	Professor (with tenure) Georgia Prevention Institute Department of Medicine Department of Population Health Sciences Department of Physiology

	Medical College of Georgia Augusta University
07/2012-06/2018	Associate Professor (with tenure) Georgia Prevention Institute Department of Medicine Department of Population Health Sciences Department of Physiology Medical College of Georgia Augusta University
07/2006 – 06/2012	Assistant Professor Georgia Prevention Institute Department of Pediatrics Medical College of Georgia Augusta University

Research and Training Grants Awarded

Pending

1R01AG092807-01A1 (S. Su/X. Wang)
NIH/NIA
Psychosocial Stress in Early Life, Chronodisruption and Accelerated Aging in Mid Life: A Life-course Approach
Role: Co-PI

Ongoing research support

AHA SFRN network project 10/01/2022-9/30/2026
AHA
Allostatic load and cardio-oncology disparities
Role: Lead statistician

T32HL155011-01A1 (D. Stepp & J. Sullivan) 07/01/2021-06/30/2026
NIH/NHLBI
Multi-Disciplinary Training Program in the Mechanisms of Cardiometabolic Disease
This is a training grant for graduate student.
Role: Mentor team

AU intramural grant (S. Su/X. Wang) 8/1/2025-7/31/2026
Psychosocial Stress in Early Life, Chronodisruption and Accelerated Aging in Mid Life: A Life-course Approach
This is bridge funding to cover the personnel for the ongoing longitudinal projects.
Role: Co-PI

Completed research

AHA SFRN 863620 (A, Guha/X. Wang) 7/1/2021-6/30/2025
AHA
Role of Obesity, Ancestry and Social Determinants of Health for Cancer development in African American Individuals with Cardiovascular Disease
This is the population project inside a center grant from AHA targeting on cardio-oncology. The overall goal is to understand the contribution of obesity and its associate health disparity

to cancer risk in patients with cardiovascular disease.
Role: Co-PI

AHA SFRN 863621 (R. Harris) 7/1/2021-6/30/2025
AHA
Health Disparities and Vascular Aging Over Time in New Onset Cancer
This is the clinical project inside a center grant from AHA targeting on cardio-oncology. The major goal of this project is to provide mechanistic insight into the increased CVD risk in newly-diagnosed patients with cancer, particularly those with race and adiposity related health disparities.
Role: Co-Investigator

1R01MD013307A1 (S. Su / F. Treiber) 9/1/2019 - 5/30/2025
NIH/NIMHD
Psychosocial stress, epigenetics and health disparity in hypertension
This project aims to find how epigenetic mediates the effect of chronic stress on the risk of essential hypertension and its related racial disparity.
Role: Co-investigator

AU intramural grant (X. Wang/B. Baban) 1/1/2024-4/30/2025
Stress, chronodisruption and accelerated aging: the mechanistic view from diurnal oscillations of salivary metabolomics and microbiome
The goal of this pilot study is to provide proof of evidence that samples collected in real-life setting can detect diurnal oscillations of salivary metabolites and microbiota.
Role: Contact-PI

1R56HL169434-01A1 (J. Abais-Battad) 09/01/2024-08/31/2025
NIH/NHLBI
Sex Differences in Gut Metabolite-Immune Interplay in Hypertension and Renal End-Organ Damage
The goal of this project is to reveal key mechanisms related to gut microbiota-immune-kidney crosstalk and provide the preclinical and human basis for developing novel, sex-specific targets to improve BP control and kidney disease.
Role: Co-investigator

1R01DK117365A01 (X. Wang/R. Harris) 9/24/2018 – 8/31/2024
NIH/NIDDK
Role of skeletal muscle health on poor lifestyle related type 2 diabetes and cardiovascular disease
Built on the longitudinal Georgia Cardiovascular Twin Cohorts, this project aims to find how skeletal muscle health and its molecular transducer play a role in chronic diseases linked with unhealthy lifestyle such as cardiovascular disease and type 2 diabetes.
Role: Contact-PI

1R01HL143440A1 (S. Su / J. McDowell) 6/1/2019 - 5/31/2024
NIH/NHLBI
Pediatric Ambulatory Blood Pressure Trajectory and Brain Health in Midlife
This project will examine the impact of elevated BP during early life on brain health in midlife. It will aid in the identification of key factors, timing and subpopulation to target for developing novel prevention and intervention strategies at an early stage that could slow the

progression of aging process in vasculature and brain, eventually averting accelerated cognitive decline in late life.
Role: Co-investigator

3R01NS112511-01A1S1 (D. Hess) 08/01/2020 – 7/31/2022
NIH/NIEDS
Rheoerythrocrine dysfunction in stroke and remote ischemic conditioning
This is a supplement grant to the parent grant list above. The goal of this supplement is to recruit 500 COVID-19 patients for long-term follow-up on neurological sequelae.
Role: Co-investigator

P01HL069999 (G. Harshfield) 07/01/2014 - 06/30/2020
NIH/NHLBI
Stress Related Mechanisms of Hypertension Risk
The major objectives of this program are to 1) define mechanisms that promote hypertension induced by stress, 2) determine the regulation of these mechanisms in high-risk populations, 3) translate findings between animal and human studies, and 4) translate our research into patient populations.
Role: Co-Investigator

1R01HL125577-01 (S. Su) 05/05/2015 - 4/30/2020
NIH/NHLBI
Epigenetic Response to Early Life Stress and the Impact on Cardiovascular Health
The major objective is to identify ELS-related DNA methylation modifications in early young adulthood and to examine their varies and impacts on cardiovascular health over time.
Role: Co-Investigator

1K12HD085817-01 (S. Ghamande) 07/18/2015 - 06/30/2020
NIH/NICHD
Georgia Regents University Women's Reproductive Health Research Career Development Plan
Role: Mentor team

1R01NS090083-01A1 (L. Mei) 07/01/2015 - 06/30/2020
NINDS/NIH
Characterization of Agrin/LRP4 Antibody-Positive Myasthenia Gravis
The goal of this project is to characterization of Agrin/LRP4 antibody positive in patients with myastheniagravis, the most common disorder of the neuromuscular junction.
Role: Co-Investigator

1R01HL104125-01 (X. Wang) 08/01/2011 – 07/31/2018
NIH/NHLBI
A genome wide methylation study on essential hypertension
In this project, we hypothesize that changes in DNA methylation of leukocytes are involved in the pathogenesis of EH and aim to identify these differentially methylation sites using a multi-step genome wide approach.
Role: PI

1R01HL105689-01 (X. Wang) 7/1/2011 – 12/31/2017
NIH/NHLBI
Epigenetic Basis of Obesity Induced Cardiovascular Disease and Type 2 Diabetes

In this project, we hypothesize that obesity induced defects in immune function is caused by DNA methylation changes in peripheral blood mononuclear cells in response to adipokines and cytokines secreted by adipose tissue. We aim to identify the differential methylation profiles between obese cases and lean controls and further evaluate whether these methylation changes are involved in the pathogenesis of obesity related co-morbidities.
Role: PI

14GRNT20480211 (Y. Dong) 7/1/2014 – 6/30/2017
AHA
Vitamin D methylome and CVD risk profile
The major goals of this project are to 1) identify Vitamin D related DNA methylation changes and 2) test whether these changes are related to CVD risk.
Role: Co-Investigator

1K01HL127278-01A1 (H. Dale) 12/15/2015 – 11/30/2017
NHLBI/NIH
Searching for missing heritability for cardiometabolic outcomes by race
The goal of this project is to further understand the genetic cause of cardiometabolic outcomes by exploring gene-nutrition interaction and gene-nutrition correlation in the CHARGE dataset.
Role: Primary mentor

P20 MD003383-01 (A. Kutlar) 5/29/2009 – 4/29/2014
NIH
NCMHD Southeastern Exploratory Sickle Cell Center of Excellence
The major objective of this study is to identify genetic variations underlying the frequency of pain, response to narcotics, and thus address the important issue of biologic/genetic bases of pain and its under treatment leading to the stigmatization of many sickle cell disease patients and its resulting disparity.
Role: Co-investigator

DODI synergy award (J. Pollock, X. Wang, D. Ownby) 5/1/2011-4/30/2012
Diabetes and Obesity Discovery Institute
New biomarkers for obesity related cardiovascular disease and type 2 diabetes
This project will elucidate the relationship between the expression levels of several genes and T cell activation status in lean and obese subjects as well as subclinical indices of type 2 diabetes and coronary heart disease
Role: PI on project 1

0730156N (X. Wang) 1/1/2007 – 12/31/2011
American Heart Association
Genetic Architecture of Heart Rate Variability in Youth
The major goals of this project are to identify genetic variants and gene-gene interactions contributing to population variations in heart rate variability in a longitudinal cohort.
Role: PI

MCG Bridge Funding Program (X. Wang) 7/1/2010 – 6/30/2011
MCG Intramural Grant
A Genome-Wide Methylation Study on Essential Hypertension
The major goal of this project is to conduct a pilot study on genome-wide methylation profile of 5 monozygotic twin pairs discordant for essential hypertension.

Role: PI

0425447B (X. Wang) 7/1/2004-6/30/2006
American Heart Association
Gene-environment interaction and hypertension risk in youth
Role: PI

HL085817 (H. Zhu) 6/1/2006 – 7/31/2008
NIH/NHLBI
Inflammatory Factors, Genes and Stress Induced Pressure Natriuresis in Youth
The main goal of this project is to determine the role of IL-6 partway on the dynamic regulation of sodium homeostasis and blood pressure under stress in normotensive youth.
Role: Co-investigator

UGRON00001 (X. Wang) 1/1/2008 – 5/1/2009
Marie Curie International Reintegration Grants
Subcontract with Harold Snieder
Identifying Genes for Heart Rate Variability
The main objective of this project is to identify genes contributing to human variation in heart rate variability at rest and during stress in a Dutch cohort.
Role: PI

HL086530 (X. Wang) 12/1/2006 – 11/30/2009
NIH/NHLBI
Identifying Genes Related to Heart Rate Variability at Rest and During Stress
The major goals of this project are to define the most heritable phenotype and find genes related to human variation in heart rate variability (HRV) using a twin design.
Role: PI

HL077230 (Y. Dong) 4/1/2006 – 3/31/2010
NIH/NHLBI
Genetics of Stress-Induced Hypertension in Black Youth
The overall goal of this project is to identify the role of the 3 epithelial sodium channel subunit genes in explaining impaired stress-induced pressure natriuresis.
Role: Co-investigator

IRP (B. Kirkpatrick & X.Wang) 7/1/2009 – 6/30/2010
MCG Intramural Grant
Genome Wide Association Studies in Deficit and Non-Deficit Schizophrenia
The major objective of this study is to conduct a secondary genome wide association analysis to discover the unique genes for deficit and non-deficit schizophrenia based on the data from GAIN study and CATIE study.
Role : Co-PI

HONORS/AWARDS

1992 - 1996	Recipient of scholarship of Hebei Medical University for academic years 1992-1993, 1993-1994, 1994-1995, and 1995-1996
1998	Elected as excellent PhD student for the 1998-1999 academic year
2002	Thesis elected as the best PhD thesis of Peking Union Medical College and the excellent PhD thesis in China
2004	AHA postdoctoral Fellowship

2007	AHA SDG award
2008	Outstanding Clinical Science Faculty Award, Medical College of Georgia School of Medicine

SCIENTIFIC AND PROFESSIONAL SOCIETIES

06/2004 - Current	American Heart Association (AHA)

TEACHING AND MENTORING

1. *Direct Teaching Responsibilities*

2007-2009	Computational Methods in Genomics and Genetics (GNMD 8050), 4 lectures, 2h each
2009-2014	Translational Genomics and Proteomics (GNMD 8051), 2 lectures, 3h each
2015 fall	Advanced study of physiology: the application of genome wide approach (PSIO 8340), Director of the course, 8 lectures, 2h each
2015-2017 fall	Invest of a problem (PSIO 9210), 11 hours each semester
2018 spring	Research (PSIO 9300): 12 hours
2019-2020	GNMD 8060, Genomic Medicine Seminar GNMD 9210, Inves of a Prob Genomic Med GNMD 8051, Translational Genom/Proteomic GNMD 8060, Genomic Medicine Seminar MEDI 5088, Medical Scholars Program PSIO 9300, Research PSIO 9300, Research
2020 fall-2021 spring	GNMD 9210 Section W12, Inves of a Prob Genomic Med GNMD 8060 Section M, Genomic Medicine Seminar GNMD 9210 Section A, Inves of a Prob Genomic Med GNMD 8060 Section M, Genomic Medicine Seminar
2021 fall-2023 Fall	GNMD 9210 Section W12, Inves of a Prob Genomic Med GNMD 8060 Section M, Genomic Medicine Seminar GNMD 9210 Section A, Inves of a Prob Genomic Med GNMD 8060 Section M, Genomic Medicine Seminar
2024 Spring-2025 Spring	GNMD 8052, Func Geno & Prote Using Anml M GNMD 8051, Translational Genom/Proteomic
2025 Fall	GNMD 8052
2026 Spring	GNMD 8051

2. *Trainees*

Current Trainees

2023-present	Morgan Broniec	MD student mentor
2025-present	Patel Kajal	MD student mentor
2025-present	Megan Roka	BS/MD student mentor

Past Trainees

2007-2009	Zhibin Li, PhD	Postdoctoral mentor
2012-2015	Xiaojing Xu, PhD	Postdoctoral mentor
2012-2015	Shuang Li	PhD committee member
2013-2017	Nicole Yiew	PhD committee member
2014-2017	Jaeeun Lee	PhD committee member
2014-2017	Jeannie Daniel	PhD committee member
2013 summer	Kelly Shannon	MD student mentor
2013 summer	Chengcheng Ye	MD student mentor

2012 summer	Kelly Anderson	MD student mentor
2018 summer	Cesar Sabogal	MD student mentor
2016-2018	Yisong Huang, PhD	Postdoctoral fellow mentor
2017-2018	Xiaohua Liang, PhD	Visiting scholar mentor
2014-2019	Yue Pan, PhD	PhD student mentor
2018-2022	James Dow	PhD committee member
2019 summer	Lindsey Whitesides	MD student mentor
2019 summer	Christiana Agbonghae	MD student mentor
2020 summer	Hannah Harper	MD student mentor
2021 fall	Alex Chen	MD student mentor
2021-2022	Sarah Malik	MD student mentor
2019-2023	Yanyan Xu	PhD student mentor
2021-2023	Rongrong Wang	PhD committee member
2022-2025	Katerina Massengale	MD student mentor
2022-2025	Elexis Price	MD student mentor

COMMUNITY ACTIVITIES

1. ***Organizer***

A biweekly genetic epidemiology journal club from 2006-2012
IPPH seminar from 2012-2014
A bariatric surgery biobanking project 2015-2018
Consulting service on statistical issues and data analysis for the paediatric residents/faculty on their scholarly activities from 2017-2010

2. ***Editorial Board Member***

Clinical Epigenetics since 2019

3. ***Journal Editor***

Associate editor of *Clinical Epigenetics* responsible for the section of cardiovascular epigenetics from 2015-2019

4. ***Committee Member***

IRB member from 2015-2018
Member for the dispersal of GPI indirect costs from 2017-2022
Member of the 2022-2023 Medical College of Georgia Admissions Interview Team
Member of the GPI faculty candidate search committee
Member of the AI and Health Chair Search Committee

5. ***Invited Manuscript Review***

Arteriosclerosis, Thrombosis and Vascular Biology
Circulation
Aging
Hypertension
International Journal of Obesity
American Journal of Hypertension
Journal of American Heart Association
Journal of Applied Physiology
Journal of Women's Health
Circulation: Cardiovascular Genetics
Psychophysiology
Journal of Hypertension
Neuroscience & Biobehavioral Reviews
Acta Physiologica
Journal of Human Hypertension
European Journal of Heart Failure

PLoS ONE
Clinical Epigenetics
Pediatric Research
Scientific Reports
Chronobiology International
Diabetes Research and Clinical Practice

6. *Invited Grant Review*

2026 Jan	NIH study section HSDO
2026 Jan	NIH ZRG1 EPH-M (92): Topics in Aging, Neurological, Mental and Behavioral Health
2025 Oct	2025-2026 AHA Fellowship Clinical 1
2024 June	NIH ZRG1 F18-E (20) Fellowships: Epidemiology and Population Sciences
2024 Nov	2024-2025 AHA Fellowship Clinical 1
2023 Nov	NIEHS Special Emphasis Panel ZES1 LWJ-W (K9)
2023 Nov	NIEHS Special Emphasis Panel ZES1 LWJ-W (K0)
2023 June	NIH LHB
2023 March	NIDDK Special panel for RFA DK22-016 entitled 'Understanding the Pathophysiology and Clinical Course of New-Onset Diabetes Following COVID-19
2022 Oct	French-Speaking Community of Belgium, the Fonds de la Recherche Scientifique – FNRS ("F.R.S.-FNRS"), *invited, but did not participate due to the availability.*
2022 Feb	French-Speaking Community of Belgium, the Fonds de la Recherche Scientifique – FNRS ("F.R.S.-FNRS")
2021 Oct	French-Speaking Community of Belgium, the Fonds de la Recherche Scientifique – FNRS ("F.R.S.-FNRS")
2021 June	NHLBI CHSB
2020 Oct	French-Speaking Community of Belgium, the Fonds de la Recherche Scientifique – FNRS ("F.R.S.-FNRS")
2020 July	NIDDK (special panel on a NOSI: Availability of Funds for Competitive Revision Applications to Conduct Research with a Focus in Chronic Disease and the Reduction of Health Disparities Within the Mission of NIDDK (R01, U01, U24, P30, U54)
2020 Feb.	NIH/KNOD (Kidney, Nutrition, Obesity, and Diabetes)
2019 Sep.	French-Speaking Community of Belgium, the Fonds de la Recherche Scientifique – FNRS ("F.R.S.-FNRS")
2019 Jan.	NIH/Community-Level Health Promotion (CLHP) Study Section: Mail reviewer
2019 Feb.	NIH/ Mechanisms of Emotion, Stress and Health (MESH) Member Conflict special emphasis panel
2017 Jun.	NIH/Social Sciences and Population Studies A (SSPA) Study Section
2017 Mar.	NIH/Social Epigenomics and Health Disparities Special Panel
2016 Nov.	NIH/KNOD (Kidney, Nutrition, Obesity, and Diabetes) and SSPA (Social Sciences and Population Studies) Member SEP
2016 Jul.	NIH/Environmental Influences on Child Health Outcomes (ECHO) Program
2016 Apr.	NIH/Director's Early Independence Awards (DP5)
2016 Feb.	NIH/Secondary dataset analyses in heart, lung, and blood diseases and sleep disorder

2015 Apr.	NIH/ Collaborative Interdisciplinary Team Science in NIDDK Research Areas
2015 Mar.	NIH/Secondary dataset analyses in heart, lung, and blood diseases and sleep disorder
2015 Mar.	AHA/ GTOE POP 2
2015 Feb.	NIH/ Ancillary Studies to Major Ongoing Clinical Research Studies to Advance Areas of Scientific Interest within the Mission of the NIDDK
2014 Dec.	NIH/ KNOD (Kidney, Nutrition, Obesity, and Diabetes) and SSPA (Social Sciences and Population Studies) Member SEP
2014 Nov.	NIH/ Academic Research Enhancement Award special panel (R15)
2014 Oct.	AHA /GTOE CL
2014 Mar.	NIH/ Secondary dataset analyses in heart, lung, and blood diseases and sleep disorder
2013 Oct.	AHA/GTOE CL
2013 Apr.	AHA/GTOE CL
2013 Feb.	NIH/ Cardiovascular and Sleep Epidemiology (CASE) study section
2012 Oct.	NIH/ Cardiovascular and Sleep Epidemiology (CASE) study section
2012 Sep.	AHA/GTOE CL
2012 Sep.	NIH/ Towards Maximizing the Scientific Return on the Women's Health Initiative Biological Resource
2012 Jul.	NIH/Ancillary Clinical Studies in Metabolic Diseases
2012 May	Health Research Council of New Zealand
2012 Feb.	Italian Ministry of Health (MOH)
2012 Feb.	French-Speaking Community of Belgium, the Fonds de la Recherche Scientifique – FNRS (“F.R.S.-FNRS”)
2011 Feb.	Italian Ministry of Health (MOH)
2011 Feb.	French-Speaking Community of Belgium, the Fonds de la Recherche Scientifique – FNRS (“F.R.S.-FNRS”)
2009 Feb.	NIH Challenge grant
2008 Feb.	Netherlands Genomics Initiative

INVITED TALKS, VISITING PROFESSORSHIPS, etc. (Last 5 years)

1. School of Nursing research seminar: Genetic and epigenetic of obesity: what can we do? August 6, 2018

2. School of Nursing research seminar: Genetic Epidemiology of obesity. August 7, 2019

3. Center for Biotechnology and Genomic Medicine Seminar: Epigenetics of obesity in human studies. November 29, 2019.

4. School of Nursing research seminar: Epigenetics of Obesity in Human Study. August 4, 2020.

5. School of Nursing research seminar: Genetics of circadian rhythm in human blood pressure. August 12, 2021

6. NIH workshop: Toward Precision Medicine: Circadian Rhythm of Blood Pressure and Chronotherapy for Hypertension. Oct 27-29, 2021. Genetics of circadian rhythm in BP: findings from human study

7. GPI Seminar: BP circadian rhythm, sleep and health disparities. October 25th, 2023

8. Department of Physiology Seminar: Factors impacting circadian rhythm of blood pressure: findings from human studies. Feb 8, 2024

PUBLICATIONS IN REFEREED JOURNALS

Papers in English

1. Obeso A, Drouard G, Palviainen T, **Wang X**, Ollikainen M, Silventoinen K, Kaprio J. Proteomic associations with fluctuation and long-term changes in BMI: A 40-year follow-up study. Diabetes Obes Metab. 2025 Aug;27(8):4192-4202. doi: 10.1111/dom.16448
2. Drouard G, Palviainen T, Kuo CL, Diniz BS, **Wang X**, Ollikainen M, Latvala A, Kaprio J. Protein Associations With Alcohol Consumption and Genetic Risk for Alcohol-Related Sociomedical Conditions. Addict Biol. 2025 Jun;30(6):e70045. doi: 10.1111/adb.70045.
3. Drouard G, Hagenbeek FA, Ollikainen M, Zheng Z, **Wang X**; FinnGen; Ripatti S, Pirinen M, Kaprio J. Twin Study Provides Heritability Estimates for 2321 Plasma Proteins and Assesses Missing SNP Heritability. J Proteome Res. 2025 Jun 6;24(6):2689-2697. doi: 10.1021/acs.jproteome.4c00971
4. Pollard E, Guha A, Harris RA, **Wang X**, Zhu H, Dong Y, Weintraub NL, Tsai MH. Cancer history and cardiovascular diseases: Implications for colorectal and breast cancer screening. J Med Screen. 2025 Oct 22:09691413251388517. doi: 10.1177/09691413251388517.
5. Broniec MN, Norland K, Looney J, Crandall R, Thomas J, **Wang X**, Harris RA. Increased Skeletal Muscle Oxidative Capacity Augments the Myokine Response to Whole Body Vibration. Med Sci Sports Exerc. 2026 Feb 1;58(2):252-260. doi: 10.1249/MSS.0000000000003854.
6. Su S, Lewis TT, Belsky DW, Liu Y, Zhang K, Snieder H, **Wang X**. Impact of psychosocial stress in early life on pace of aging in young adulthood. Clin Epigenetics. 2025 Nov 10;17(1):186. doi: 10.1186/s13148-025-02002-y.
7. Makram OM, Okwuosa T, Addison D, Cortes J, Dent S, Bevel M, Ganatra S, Al-Kindi S, Hedrick CC, Weintraub NL, **Wang X**, Guha A. Cardiovascular Diseases Increase Cancer Mortality in Adults: NHANES-Continuous Study. J Am Heart Assoc. 2024 Aug 6;13(15):e035500
8. Malik S, Guha A, **Wang X**, Weintraub NL, Harris R, Datta B, Moore J, Nain P, Patel SA, Coughlin S, Polter E, Prizment A, Blaes A, Florido R, Kutty S, Alonso A, Joshu CE, Platz EA. Association Between Obesity and Risk of Total and Obesity-Related Cancer in People With Incident Cardiovascular Disease. J Am Heart Assoc. 2024 Sep 3;13(17):e034438.
9. Makram OM, Kunhiraman HH, Harris RA, Hedrick CC, Nasir K, Weintraub NL, **Wang X**, Guha A. Examining the interplay between cardiovascular disease and cancer incidence: Data from NHANES III and continuous. Am Heart J Plus. 2024 Mar 11;40:100380.
10. Nain P, Stabellini N, Makram OM, Rast J, Yerraguntla S, Gopu G, Bhave A, Seth L, Patel V, Jiang S, Malik S, Shetewi A, Montero AJ, Cullen J, Agarwal N, **Wang X**, Ky B, Baldassarre LA, Weintraub NL, Harris RA, Guha A. Adverse social determinants of health elevate uncontrolled hypertension risk: a cardio-oncology prospective cohort study. JNCI Cancer Spectr. 2024 Sep 2;8(5):pkae064.
11. Broniec MN, Norland K, Thomas J, **Wang X**, Harris RA. The decorin and myostatin response to acute whole body vibration: impact of adiposity, sex, and race. Int J Obes (Lond). 2024 Dec;48(12):1803-1808.
12. Massengale K, Xu Y, Snieder H, Su S, **Wang X**. A longitudinal study of blood pressure circadian rhythm from childhood to early adulthood. J Hum Hypertens. 2024

May;38(5):437-443
13. Massengale K, Barnes VA, Williams C, Mansuri A, Norland K, Altvater M, Bailey H, Harris R, Su S, **Wang X**. Nocturnal blood pressure dipping, blood pressure variability, and cognitive function in early and middle-aged adults. J Clin Hypertens (Greenwich). 2024 Mar;26(3):235-240.
14. Simon AB, Derella CC, Looney JC, Norland K, **Wang X**, Harris RA. Daily Physical Activity Does Not Contribute to Differences in Muscle Oxidative Capacity Between Overweight and Obesity. Endocrinol Diabetes Metab. 2024 Sep;7(5):e513.
15. Föhr T, Hendrix A, Kankaanpää A, Laakkonen EK, Kujala U, Pietiläinen KH, Lehtimäki T, Kähönen M, Raitakari O, **Wang X**, Kaprio J, Ollikainen M, Sillanpää E. Metabolic syndrome and epigenetic aging: a twin study. Int J Obes (Lond). 2024 Jan 25. doi: 10.1038/s41366-024-01466-x. PMID: 38273034
16. Drouard G, Mykkänen J, Heiskanen J, Pohjonen J, Ruohonen S, Pahkala K, Lehtimäki T, **Wang X**, Ollikainen M, Ripatti S, Pirinen M, Raitakari O, Kaprio J. Exploring machine learning strategies for predicting cardiovascular disease risk factors from multi-omic data. BMC Med Inform Decis Mak. 2024 May 2;24(1):116.
17. Hubers N, Drouard G, Jansen R, Pool R, Hottenga JJ, Ollikainen M, **Wang X**, Willemsen G, Kaprio J, Boomsma DI, van Dongen J. Transcriptomic and Metabolomic Analyses in Monozygotic and Dizygotic Twins. Am J Med Genet A. 2024 Dec 16:e63971.
18. Price E, Li X, Xu Y, Mansuri A, McCall WV, Su S, **Wang X**. Age, sex and race distribution of accelerometer-derived sleep variability in US school-aged children and adults. Sci Rep. 2023 Dec 13;13(1):22114. PMID: 38092889.
19. Simon AB, Norland K, Blackburn M, Zhao S, **Wang X**, Harris RA. Evidence of increased cardiovascular disease risk in left-handed individuals. Front Cardiovasc Med. 2023 Dec 14;10:1326686.
20. **Wang X**, Xu Y, Li X, Mansuri A, McCall WV, Liu Y, Su S. Day-to-day deviations in sleep parameters and biological aging: Findings from the NHANES 2011-2014. Sleep Health. 2023 Aug 28:S2352-7218(23)00168-7. doi: 10.1016/j.sleh.2023.07.018.
21. Su S, Li X, Xu Y, McCall WV, **Wang X**. Epidemiology of accelerometer-based sleep parameters in US school-aged children and adults: NHANES 2011-2014. Sci Rep. 2022 May 10;12(1):7680. doi: 10.1038/s41598-022-11848-8.
22. Xu Y, Barnes VA, Harris RA, Altvater M, Williams C, Norland K, Looney J, Crandall R, Su S, **Wang X**. Sleep Variability, Sleep Irregularity, and Nighttime Blood Pressure Dipping. Hypertension. 2023 Oct 6. doi: 10.1161/HYPERTENSIONAHA.123.21497.
23. Stabellini N, Cullen J, Bittencourt MS, Moore JX, Cao L, Weintraub NL, Harris RA, **Wang X**, Datta B, Coughlin SS, Garcia J, Shanahan J, Hamerschlak N, Waite K, Fillmore NR, Terris M, Montero AJ, Barnholtz-Sloan JS, Guha A. Allostatic load and cardiovascular outcomes in males with prostate cancer. JNCI Cancer Spectr. 2023 Mar 1;7(2):pkad005. doi: 10.1093/jncics/pkad005.
24. Sanni-Ajibaye AA, Blanks AM, Derella CC, Simon AB, Rodriguez-Miguelez P, Looney J, Jeong J, Thomas J, Stepp DW, Weintraub NL, **Wang X**, Harris RA. Endothelin-1 response to whole-body vibration in obese and normal weight individuals. Physiol Rep. 2022 May;10(10):e15335. doi: 10.14814/phy2.15335.
25. Chen AK, **Wang X**, McCluskey LP, Morgan JC, Switzer JA, Mehta R, Tingen M, Su S, Harris RA, Hess DC, Rutkowski EK. Neuropsychiatric sequelae of long COVID-19: Pilot results from the COVID-19 neurological and molecular prospective cohort study in Georgia, USA. Brain Behav Immun Health. 2022 Oct;24:100491. doi: 10.1016/j.bbih.2022.100491.
26. Xu Y, Su S, Li X, Mansuri A, McCall WV, **Wang X**. Blunted rest-activity circadian rhythm increases the risk of all-cause, cardiovascular disease and cancer mortality in US adults. Sci Rep. 2022 Nov 30;12(1):20665. doi: 10.1038/s41598-022-24894-z.

27. Xu Y, **Wang X**, Belsky DW, McCall WV, Liu Y, Su S. Blunted rest-activity circadian rhythm is associated with increased rate of biological aging: an analysis of NHANES 2011-2014. J Gerontol A Biol Sci Med Sci. 2022 Sep 18:glac199. doi: 10.1093/gerona/glac199.
28. Coughlin SS, Datta B, Guha A, **Wang X**, Weintraub NL. Cardiovascular Health Among Cancer Survivors. From the 2019 Behavioral Risk Factor Surveillance System Survey. Am J Cardiol. 2022 Sep 1;178:142-148. doi: 10.1016/j.amjcard.2022.05.027.
29. Coughlin SS, Datta B, Guha A, **Wang X**, Weintraub NL. Cardiovascular conditions and obesity among gynecologic cancer survivors: Results from the 2020 behavioral risk factor surveillance system survey. Gynecol Oncol. 2022 Jun;165(3):405-409. doi: 10.1016/j.ygyno.2022.03.025.
30. Gumz M, Shimbo D, Abdalla M, … **Wang X**, Wright J, Oh Y. Toward Precision Medicine: Circadian Rhythm of Blood Pressure and Chronotherapy for Hypertension - 2021 NHLBI Workshop Report. Hypertension, 2022, in press.
31. Xu Y, Su S, Brown M, Snieder H, Harshfield G, **Wang X**. Ethnic differences and heritability of blood pressure circadian rhythm in African and European American youth and young adults. J Hypertens. 2022 Jan 1;40(1):163-170.
32. Xu Y, Su S, McCall WV, Isales C, Snieder H, **Wang X**. Rest-activity circadian rhythm and impaired glucose tolerance in adults: an analysis of NHANES 2011-2014. BMJ Open Diabetes Res Care. 2022 Mar;10(2):e002632.
33. Ernst B, Su S, Treiber F, Snieder H, **Wang X**. Diurnal Cortisol Slope and Nighttime Blood Pressure: A Study in European Americans and African Americans. Ethn Dis. 2021 Oct 21;31(4):481-488.
34. Xu Y, Su S, McCall WV, **Wang X**. Blunted rest-activity rhythm is associated with increased white blood-cell-based inflammatory markers in adults: an analysis from NHANES 2011-2014. Chronobiol Int. 2022 Mar 9:1-8.
35. Sanni AA, Blanks AM, Derella CC, Horsager C, Crandall RH, Looney J, Sanchez S, Norland K, Ye B, Thomas J, **Wang X**, Harris RA. The effects of whole-body vibration amplitude on glucose metabolism, inflammation, and skeletal muscle oxygenation. Physiol Rep. 2022 Mar;10(5):e15208.
36. Derella CC, Blanks AM, **Wang X**, Tucker MA, Horsager C, Jeong JH, Rodriguez-Miguelez P, Looney J, Thomas J, Pollock DM, Harris RA. Endothelin receptor blockade blunts the pressor response to acute stress in men and women with obesity. J Appl Physiol (1985). 2022 Jan 1;132(1):73-83.
37. Guha A, **Wang X**, Harris RA, Nelson AG, Stepp D, Klaassen Z, Raval P, Cortes J, Coughlin SS, Bogdanov VY, Moore JX, Desai N, Miller DD, Lu XY, Kim HW, Weintraub NL. Obesity and the Bidirectional Risk of Cancer and Cardiovascular Diseases in African Americans: Disparity vs. Ancestry. Front Cardiovasc Med. 2021 Oct 18;8:761488.
38. Drouard G, Ollikainen M, Mykkänen J, Raitakari O, Lehtimäki T, Kähönen M, Mishra PP, **Wang X**, Kaprio J. Multi-Omics Integration in a Twin Cohort and Predictive Modeling of Blood Pressure Values. OMICS. 2022 Mar;26(3):130-141.
39. Wang, Y., Xu, Y., Yan, S., Cao, K., Zeng, X., Zhou, Y., Liu, Z., Yang, Q., Pan, Y. C., **Wang, X**., Boison, D., Su, Y., Jiang, X., Patel, V. S., Fulton, D. J., Weintraub, N. L., Huo, Y. Adenosine kinase is critical for neointima formation after vascular injury by inducing aberrant DNA hypermethylation. Cardiovasc Res. 2021 Jan 21;117(2):561-575. PMID: 32065618
40. Huang Y, Su S, Sneider H, Treiber F, Kapuku G, **Wang X**. Decreased heritability and emergence of novel genetic effects on pulse wave velocity from youth to young adulthood. 2021, Scientific Reports, In Press.
41. Williams DP, Thayer JF, Halbert JD, **Wang X**, Kapuku G. Higher Cardiac Vagal Activity Predicts Lower Peripheral Resistance Six Years Later in European but not African Americans. Am J Physiol Heart Circ Physiol. 2021 Mar 26. Online ahead of print. PMID:

33769914
42. Chen L, Zhu H, Su S, Harshfield G, Sullivan J, Webb C, Blumenthal JA, **Wang X**, Huang Y, Treiber FA, Kapuku G, Li W, Dong Y. High-Mobility Group Box-1 Is Associated With Obesity, Inflammation, and Subclinical Cardiovascular Risk Among Young Adults: A Longitudinal Cohort Study. Arterioscler Thromb Vasc Biol. 2020 Nov;40(11):2776-2784. PMID: 32814439
43. Huang Y, Ollikainen M, Muniandy M, …, **Wang X**. Identification, Heritability, and Relation With Gene Expression of Novel DNA Methylation Loci for Blood Pressure. Hypertension. 2020 Jul;76(1):195-205. PMID: 32520614
44. Chen, L., Wagner, C. L., Dong, Y., **Wang, X**., Shary, J. R., Huang, Y., Hollis, B. W., Zhu, H. (2020). Effects of Maternal Vitamin D3 Supplementation on Offspring Epigenetic Clock of Gestational Age at Birth: A Post-hoc Analysis of a Randomized Controlled Trial. Epigenetics, 1-11
45. Sabogal, C., Su, S., Tingen, M. S., Kapuku, G., **Wang, X**. Cigarette smoking related DNA methylation in peripheral leukocytes and cardiovascular risk in young adults. Int J Cardiol. 2020 May 1;306:203-205. PMID: 31757649
46. Jeong, J., Zhu, H., Harris, R. A., Dong, Y., Su, S., Tingen, M. S., Kapuku, G., Pollock, J. S., Pollock, D. M., Harshfield, G. A., **Wang, X**. (2019). Ethnic Differences in Nighttime Melatonin and Nighttime Blood Pressure: A Study in European Americans and African Americans. American journal of hypertension, 32(10), 968-974
47. Tuomela J, Kaprio J, Sipilä PN, Silventoinen K, **Wang X**, Ollikainen M, Piirtola M. Accuracy of self-reported anthropometric measures - Findings from the Finnish Twin Study. Obes Res Clin Pract. 2019 Nov - Dec;13(6):522-528. PMID: 31761633
48. Sun D, Zhang T, Su S, Hao G, Chen T, Li QZ, Bazzano L, He J, **Wang X**, Li S, Chen W. Body Mass Index Drives Changes in DNA Methylation: A Longitudinal Study. Circ Res. 2019 Oct 11;125(9):824-833. PMID: 31510868
49. Pan Y, Choi J, Shi H, Zhang L, Su S, **Wang X**. Discovery and Validation of a Novel Neutrophil Activation Marker Associated with Obesity. Scientific Reports. 2019, in press.
50. Sillanpää E, Ollikainen M, Kaprio J, **Wang X**, Leskinen T, Kujala UM, Törmäkangas T. Leisure-time physical activity and DNA methylation age-a twin study. Clin Epigenetics. 2019 Jan 19;11(1):12. doi: 10.1186/s13148-019-0613-5. PubMed PMID: 30660189; PubMed Central PMCID: PMC6339334
51. Hao G, Pollock NK, Harris RA, Gutin B, Su S, **Wang X**. Associations between muscle mass, physical activity and dietary behaviour in adolescents. Pediatr Obes. 2019 Mar;14(3):e12471. doi: 10.1111/ijpo.12471. Epub 2018 Sep 17. PubMed PMID: 30280506
52. Liang X, Su S, Hao G, Snieder H, Treiber F, Kapuku G, **Wang X**. Determinants of pulse wave velocity trajectories from youth to young adulthood: the Georgia Stress and Heart Study. J Hypertens. 2019 Mar;37(3):563-571. PubMed PMID: 30234784; PubMed Central PMCID: PMC6355367
53. Chen L, Dong Y, **Wang X**, Hao G, Huang Y, Gutin B, Zhu H. Epigenome-Wide Association Study of Dietary Fiber Intake in African American Adolescents. Mol Nutr Food Res. 2018 Jun;62(12):e1800155. doi: 10.1002/mnfr.201800155. Epub 2018 May 28. PubMed PMID: 29644791; PubMed Central PMCID: PMC6344930
54. Huang, Y., Ollikainen, M., Sipilä, P., Mustelin, L., Wang, X., Su, S., Huan, T., Levy, D., Wilson, J., Snieder, H., Kaprio, J., **Wang, X.** (2018). Genetic and Environmental Effects on Gene Expression Signatures of Blood Pressure: A Transcriptome-Wide Twin Study. Hypertension (Dallas, Tex. : 1979), 71(3), 457-464.
55. **Wang, X**., Pan, Y. C., Zhu, H., Hao, G., Huang, Y., Barnes, V., Shi, H., Snieder, H., Pankow, J., North, K., Grove, M., Guan, W., Demerath, E., Dong, Y., Su, S. (2018). An epigenome-wide study of obesity in African American youth and young adults: novel findings, replication in neutrophils, and relationship with gene expression. Clinical

epigenetics, 10, 3.
56. **Wang, X.,** Snieder, H. (2017). Assessing genetic risk of hypertension at an early age: future research directions. Expert review of cardiovascular therapy, 15(11), 809-812.
57. Hao, G., **Wang, X**., Treiber, F. A., Harshfield, G., Kapuku, G., Su, S. (2017). Body mass index trajectories in childhood is predictive of cardiovascular risk: results from the 23-year longitudinal Georgia Stress and Heart study. International journal of obesity (2005).
58. Xu, Y., Wang, Y., Yan, S., Zhou, Y., Yang, Q., Pan, Y. C., Zeng, X., An, X., Liu, Z., Wang, L., Xu, J., Cao, Y., Fulton, D., Weintraub, N., Bagi, Z., Hoda, M. N., **Wang, X.,** Li, Q., Hong, M., Jiang, X., Boison, D., Weber, C., Wu, C., Huo, Y. (2017). Intracellular adenosine regulates epigenetic programming in endothelial cells to promote angiogenesis. EMBO molecular medicine, 9(9), 1263-1278.
59. Li, N., Yan, W., Hu, X., Huang, Y., Wang, F., Zhang, W., Wang, Q., **Wang, X**., Sun, K. (2017). Effects of oral α-lipoic acid administration on body weight in overweight or obese subjects: a crossover randomized, double-blind, placebo-controlled trial. Clinical endocrinology, 86(5), 680-687.
60. Hao, G., **Wang, X.,** Treiber, F. A., Harshfield, G., Kapuku, G., Su, S. (2017). Blood Pressure Trajectories From Childhood to Young Adulthood Associated With Cardiovascular Risk: Results From the 23-Year Longitudinal Georgia Stress and Heart Study. Hypertension (Dallas, Tex. : 1979), 69(3), 435-442.
61. Youssef, N. A., Belew, D., Hao, G., **Wang, X**., Treiber, F. A., Stefanek, M., Yassa, M., Boswell, E., McCall, W., Su, S. (2017). Racial/ethnic differences in the association of childhood adversities with depression and the role of resilience. Journal of affective disorders, 208, 577-581.
62. Hao, G., **Wang, X.,** Treiber, F. A., Davis, H., Leverett, S., Su, S., Kapuku, G. (2016). Growth of Carotid Intima-Media Thickness in Black and White Young Adults. Journal of the American Heart Association, 5(12).
63. Ye, C., Pan, Y. C., Xu, X., Su, S., Snieder, H., Treiber, F., Kapuku, G., **Wang, X**. (2016). Pulse wave velocity in elastic and muscular arteries: tracking stability and association with anthropometric and hemodynamic measurements. Hypertension research: official journal of the Japanese Society of Hypertension, 39(11), 786-791.
64. Wu, J., Xu, X., Lee, E., Shull, A. Y., Pei, L., Awan, F., **Wang, X**., Choi, J., Deng, L., Xin, H. B., Zhong, W., Liang, J., Miao, Y., Wu, Y., Fan, L., Li, J., Xu, W., Shi, H. (2016). Phenotypic alteration of CD8+ T cells in chronic lymphocytic leukemia is associated with epigenetic reprogramming. Oncotarget, 7(26), 40558-40570.
65. Ryu, D., Xu, H., George, V., Su, S., **Wang, X.,** Shi, H., Podolsky, R. H. (2016). Differential methylation tests of regulatory regions. Statistical applications in genetics and molecular biology, 15(3), 237-51.
66. Zhou, H., Lei, X., Benson, T., Mintz, J., Xu, X., Harris, R., Weintraub, N., **Wang, X**., Chen, W. (2015). Berardinelli-Seip congenital lipodystrophy 2 regulates adipocyte lipolysis, browning, and energy balance in adult animals. Journal of lipid research, 56(10), 1912-25.
67. Küpers, L. K., Xu, X., Jankipersadsing, S. A., Vaez, A., la Bastide-van Gemert, S., Scholtens, S., Nolte, I. M., Richmond, R. C., Relton, C. L., Felix, J. F., Duijts, L., van Meurs, J. B., Tiemeier, H., Jaddoe, V. W., **Wang, X.,** Corpeleijn, E., Snieder, H. (2015). DNA methylation mediates the effect of maternal smoking during pregnancy on birthweight of the offspring. International journal of epidemiology, 44(4), 1224-37.
68. Su, S., **Wang, X.,** Pollock, J. S., Treiber, F. A., Xu, X., Snieder, H., McCall, W., Stefanek, M., Harshfield, G. (2015). Adverse childhood experiences and blood pressure trajectories from childhood to young adulthood: the Georgia stress and Heart study. Circulation, 131(19), 1674-81.
69. Xu, X., Su, S., Treiber, F. A., Vlietinck, R., Fagard, R., Derom, C., Gielen, M., Loos, R. J., Snieder, H., **Wang, X.** (2015). Specific genetic influences on nighttime blood pressure.

American journal of hypertension, 28(4), 440-3.
70. Hill, L. K., Hu, D. D., Koenig, J., Sollers, 3rd, J. J., Kapuku, G., **Wang, X.,** Snieder, H., Thayer, J. F. (2015). Ethnic differences in resting heart rate variability: a systematic review and meta-analysis. Psychosomatic medicine, 77(1), 16-25.
71. **Wang, X.,** Xu, X., Su, S., Snieder, H. (2015). Familial aggregation and childhood blood pressure. Current hypertension reports, 17(1), 509.
72. Xu, X., Su, S., Wang, X., Barnes, V., De Miguel, C., Ownby, D., Pollock, J., Snieder, H., Chen, W., **Wang, X**. (2015). Obesity is associated with more activated neutrophils in African American male youth. International journal of obesity (2005), 39(1), 26-32.
73. Riese, H., Muñoz, L. M., Hartman, C. A., Ding, X., Su, S., Oldehinkel, A. J., van Roon, A. M., van der Most, P. J., Lefrandt, J., Gansevoort, R. T., van der Harst, P., Verweij, N., Licht, C. M., Boomsma, D. I., Hottenga, J. J., Willemsen, G., Penninx, B. W., Nolte, I. M., de Geus, E. J., **Wang, X.,** Snieder, H. (2014). Identifying genetic variants for heart rate variability in the acetylcholine pathway. PloS one, 9(11), e112476.
74. Su, S., **Wang, X.,** Kapuku, G. K., Treiber, F. A., Pollock, D. M., Harshfield, G., McCall, W., Pollock, J. S. (2014). Adverse childhood experiences are associated with detrimental hemodynamics and elevated circulating endothelin-1 in adolescents and young adults. Hypertension (Dallas, Tex. : 1979), 64(1), 201-7.
75. Ding, X., Su, S., Nandakumar, K., **Wang, X.,** Fardo, D. W. (2014). A 2-step penalized regression method for family-based next-generation sequencing association studies. BMC proceedings, 8(Suppl 1), S25.
76. Su, S., Zhu, H., Xu, X., Wang, X., Dong, Y., Kapuku, G., Treiber, F., Gutin, B., Harshfield, G., Snieder, H., **Wang, X.** (2014). DNA methylation of the LY86 gene is associated with obesity, insulin resistance, and inflammation. Twin research and human genetics : the official journal of the International Society for Twin Studies, 17(3), 183-91.
77. Zhu, H., Pollock, N., Kotak, I., Gutin, B., **Wang, X**., Bhagatwala, J., Parikh, S., Harshfield, G., Dong, Y. (2014). Dietary sodium, adiposity, and inflammation in healthy adolescents. Pediatrics, 133(3), e635-42.
78. Guo, D. H., Parikh, S. J., Chao, J., Pollock, N., **Wang, X**., Snieder, H., Navis, G., Wilson, J., Bhagatwala, J., Zhu, H., Dong, Y. (2013). Urinary prostasin excretion is associated with adiposity in nonhypertensive African-American adolescents. Pediatric research, 74(2), 206-10.
79. Zhu, H., **Wang, X.,** Shi, H., Su, S., Harshfield, G., Gutin, B., Snieder, H., Dong, Y. (2013). A genome-wide methylation study of severe vitamin D deficiency in African American adolescents. The Journal of pediatrics, 162(5), 1004-9.e1.
80. Xu, X., Su, S., Barnes, V., De Miguel, C., Pollock, J., Ownby, D., Shi, H., Zhu, H., Snieder, H., **Wang, X**. (2013). A genome-wide methylation study on obesity: differential variability and differential methylation. Epigenetics, 8(5), 522-33.
81. Xu, H., Podolsky, R. H., Ryu, D., **Wang, X.,** Su, S., Shi, H., George, V. (2013). A method to detect differentially methylated loci with next-generation sequencing. Genetic epidemiology, 37(4), 377-82.
82. Ryu, D., Xu, H., George, V., Su, S., **Wang, X**., Shi, H., Podolsky, R. (2013) Quantifying and Normalizing Methylation Levels in Illumina Arrays. J Biomet Biostat 4:164. doi:10.4172/2155-6180.1000164
83. Xu, X., Ding, X., Zhang, X., Su, S., Treiber, F. A., Vlietinck, R., Fagard, R., Derom, C., Gielen, M., Loos, R. J., Snieder, H., **Wang, X.** (2013). Genetic and environmental influences on blood pressure variability: a study in twins. Journal of hypertension, 31(4), 690-7.
84. Codd, V., Nelson, C. P., Albrecht, E., **Wang, X.,** Spector, T. D., van der Harst, P., Samani, N. J. (2013). Identification of seven loci affecting mean telomere length and their association with disease. Nature genetics, 45(4), 422-7, 427e1-2.

85. **Wang, X.,** Falkner, B., Zhu, H., Shi, H., Su, S., Xu, X., Sharma, A., Dong, Y., Treiber, F., Gutin, B., Harshfield, G., Snieder, H. (2013). A genome-wide methylation study on essential hypertension in young African American males. PloS one, 8(1), e53938.
86. **Wang, X.,** Prins, B. P., Sõber, S., Laan, M., Snieder, H. (2011). Beyond genome-wide association studies: new strategies for identifying genetic determinants of hypertension. Current hypertension reports, 13(6), 442-51.
87. Ehret, G. B., Munroe, P. B., Rice, K. M., …, **Wang, X.,** …, Levy, D., Caulfield, M. J., Johnson, T. (2011). Genetic variants in novel pathways influence blood pressure and cardiovascular disease risk. Nature, 478(7367), 103-9.
88. Fox, E. R., Young, J., Li, Y., …, **Wang, X.,** …, Chakravarti, A., Zhu, X., Levy, D. (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), 2273-84.
89. Wu, T., Snieder, H., Li, L., Cao, W., Zhan, S., Lv, J., Gao, W., **Wang, X.,** Ding, X., Hu, Y. (2011). Genetic and environmental influences on blood pressure and body mass index in Han Chinese: a twin study. Hypertension research : official journal of the Japanese Society of Hypertension, 34(2), 173-9.
90. **Wang, X.,** Ding, X., Su, S., Harshfield, G., Treiber, F., Snieder, H. (2011). Genetic influence on blood pressure measured in the office, under laboratory stress and during real life. Hypertension research : official journal of the Japanese Society of Hypertension, 34(2), 239-44.
91. Zhu, H., **Wang, X.,** Gutin, B., Davis, C., Keeton, D., Thomas, J., Stallmann-Jorgensen, I., Mooken, G., Bundy, V., Snieder, H., van der Harst, P., Dong, Y. (2011). Leukocyte telomere length in healthy Caucasian and African-American adolescents: relationships with race, sex, adiposity, adipokines, and physical activity. The Journal of pediatrics, 158(2), 215-20.
92. **Wang, X.,** Zhu, H., Snieder, H., Su, S., Munn, D., Harshfield, G., Maria, B. L., Dong, Y., Treiber, F., Gutin, B., Shi, H. (2010). Obesity related methylation changes in DNA of peripheral blood leukocytes. BMC medicine, 8, 87.
93. Li, Z., Snieder, H., Su, S., Harshfield, G., Treiber, F. A., **Wang, X.** (2010). A longitudinal study of blood pressure variability in African-American and European American youth. Journal of hypertension, 28(4), 715-22.
94. **Wang, X.,** Ding, X., Su, S., Yan, W., Harshfield, G., Treiber, F., Snieder, H. (2009). Genetic influences on daytime and night-time blood pressure: similarities and differences. Journal of hypertension, 27(12), 2358-64.
95. **Wang, X.,** Ding, X., Su, S., Spector, T. D., Mangino, M., Iliadou, A., Snieder, H. (2009). Heritability of insulin sensitivity and lipid profile depend on BMI: evidence for gene-obesity interaction. Diabetologia, 52(12), 2578-84.
96. Li, Z., Snieder, H., Su, S., Ding, X., Thayer, J. F., Treiber, F. A., **Wang, X.** (2009). A longitudinal study in youth of heart rate variability at rest and in response to stress. International journal of psychophysiology : official journal of the International Organization of Psychophysiology, 73(3), 212-7.
97. Li, Z., Snieder, H., Harshfield, G., Treiber, F. A., **Wang, X.** (2009). A 15-year longitudinal study on ambulatory blood pressure tracking from childhood to early adulthood. Hypertension research : official journal of the Japanese Society of Hypertension, 32(5), 404-10.
98. **Wang, X.,** Ding, X., Su, S., Li, Z., Riese, H., Thayer, J. F., Treiber, F., Snieder, H. (2009). Genetic influences on heart rate variability at rest and during stress. Psychophysiology, 46(3), 458-65.
99. Ge, D., Su, S., Zhu, H., Dong, Y., **Wang, X.,** Harshfield, G., Treiber, F. A., Snieder, H. (2009). Stress-induced sodium excretion: a new intermediate phenotype to study the early

genetic etiology of hypertension? Hypertension (Dallas, Tex. : 1979), 53(2), 262-9.
100. Zhu, H., Guo, D., Li, K., Yan, W., Tan, Y., **Wang, X.,** Treiber, F. A., Chao, J., Snieder, H., Dong, Y. (2008). Prostasin: a possible candidate gene for human hypertension. American journal of hypertension, 21(9), 1028-33.
101. Kyriakou, T., Collins, L. J., Spencer-Jones, N. J., Malcolm, C., **Wang, X.,** Snieder, H., Swaminathan, R., Burling, K. A., Hart, D. J., Spector, T. D., O'Dell, S. D. (2008). Adiponectin gene ADIPOQ SNP associations with serum adiponectin in two female populations and effects of SNPs on promoter activity. Journal of human genetics, 53(8), 718-27.
102. Snieder, H., **Wang, X.,** Lagou, V., Penninx, B. W., Riese, H., Hartman, C. A. (2008). Role of gene-stress interactions in gene-finding studies. Novartis Foundation symposium, 293, 71-82; discussion 83-6, 122-7.
103. Snieder, H., **Wang, X.,** Shiri-Sverdlov, R., van Vliet-Ostaptchouk, J. V., Hofker, M. H., Perks, U., Spector, T. D., O'Dell, S. D. (2008). TUB is a candidate gene for late-onset obesity in women. Diabetologia, 51(1), 54-61.
104. Yan, W., Yao, H., Dai, J., Cui, J., Chen, Y., Yang, X., Harshfield, G., **Wang, X.** (2008). Waist circumference cutoff points in school-aged Chinese Han and Uygur children. Obesity (Silver Spring, Md.), 16(7), 1687-92.
105. Ge, D., Young, T., **Wang, X.,** Kapuku, G. K., Treiber, F. A., Snieder, H. (2007). Heritability of arterial stiffness in black and white American youth and young adults. American journal of hypertension, 20(10), 1065-72.
106. Jamshidi, Y., Gooljar, S. B., Snieder, H., **Wang, X.,** Ge, D., Swaminathan, R., Spector, T. D., O'Dell, S. D. (2007). SHP-2 and PI3-kinase genes PTPN11 and PIK3R1 may influence serum apoB and LDL cholesterol levels in normal women. Atherosclerosis, 194(2), e26-33.
107. Jamshidi, Y., Kyriakou, T., Gooljar, S. B., Collins, L. J., Lane, C. A., Snieder, H., **Wang, X.**, Spector, T. D., O'Dell, S. D. (2007). Common STAT3 variants are not associated with obesity or insulin resistance in female twins. Obesity (Silver Spring, Md.), 15(7), 1634-9.
108. **Wang, X.,** Poole, J. C., Treiber, F. A., Harshfield, G., Hanevold, C. D., Snieder, H. (2006). Ethnic and gender differences in ambulatory blood pressure trajectories: results from a 15-year longitudinal study in youth and young adults. Circulation, 114(25), 2780-7.
109. Ge, D., Dong, Y., **Wang, X.,** Treiber, F. A., Snieder, H. (2006). The Georgia Cardiovascular Twin Study: influence of genetic predisposition and chronic stress on risk for cardiovascular disease and type 2 diabetes. Twin research and human genetics : the official journal of the International Society for Twin Studies, 9(6), 965-70.
110. Jamshidi, Y., Snieder, H., **Wang, X.,** Pavitt, M. J., Spector, T. D., Carter, N. D., O'Dell, S. D. (2006). Phosphatidylinositol 3-kinase p85alpha regulatory subunit gene PIK3R1 haplotype is associated with body fat and serum leptin in a female twin population. Diabetologia, 49(11), 2659-67.
111. Zhu, H., Lu, Y., **Wang, X.,** Snieder, H., Treiber, F. A., Harshfield, G., Dong, Y. (2006). The G protein-coupled receptor kinase 4 gene modulates stress-induced sodium excretion in black normotensive adolescents. Pediatric research, 60(4), 440-2.
112. Lu, Y., Zhu, H., **Wang, X.,** Snieder, H., Huang, Y., Harshfield, G., Treiber, F. A., Dong, Y. (2006). Effects of dopamine receptor type 1 and Gs protein alpha subunit gene polymorphisms on blood pressure at rest and in response to stress. American journal of hypertension, 19(8), 832-6.
113. **Wang, X.,** Zhu, H., Dong, Y., Treiber, F. A., Snieder, H. (2006). Effects of angiotensinogen and angiotensin II type I receptor genes on blood pressure and left ventricular mass trajectories in multiethnic youth. Twin research and human genetics : the official journal of the International Society for Twin Studies, 9(3), 393-402.

114. Su, S., Chen, S., Zhao, J., Huang, J., **Wang, X.,** Chen, R., Gu, D. (2006). Plasminogen activator inhibitor-1 gene: selection of tagging single nucleotide polymorphisms and association with coronary heart disease. Arteriosclerosis, thrombosis, and vascular biology, 26(4), 948-54.
115. Zhu, H., **Wang, X.,** Lu, Y., Poola, J., Momin, Z., Harshfield, G., Snieder, H., Dong, Y. (2006). Update on G-protein polymorphisms in hypertension. Current hypertension reports, 8(1), 23-9.
116. Jamshidi, Y., Snieder, H., **Wang, X.,** Spector, T. D., Carter, N. D., O'Dell, S. D. (2006). Common polymorphisms in SOCS3 are not associated with body weight, insulin sensitivity or lipid profile in normal female twins. Diabetologia, 49(2), 306-10.
117. Zhu, H., Lu, Y., **Wang, X**., Treiber, F. A., Harshfield, G., Snieder, H., Dong, Y. (2006). The G protein-coupled receptor kinase 4 gene affects blood pressure in young normotensive twins. American journal of hypertension, 19(1), 61-6.
118. Spencer-Jones, N. J., **Wang, X**., Snieder, H., Spector, T. D., Carter, N. D., O'Dell, S. D. (2005). Protein tyrosine phosphatase-1B gene PTPN1: selection of tagging single nucleotide polymorphisms and association with body fat, insulin sensitivity, and the metabolic syndrome in a normal female population. Diabetes, 54(11), 3296-304.
119. **Wang, X**., Thayer, J. F., Treiber, F., Snieder, H. (2005). Ethnic differences and heritability of heart rate variability in African- and European American youth. The American journal of cardiology, 96(8), 1166-72.
120. Davis, C., **Wang, X.,** Snieder, H., Treiber, F. A. (2005). Genetic and environmental determinants of lipid profile in black and white youth: a study of four candidate genes. Ethnicity & disease, 15(4), 568-77.
121. Iliadou, A., Snieder, H., **Wang, X.,** Treiber, F. A., Davis, C. (2005). Heritabilities of lipids in young European American and African American twins. Twin research and human genetics : the official journal of the International Society for Twin Studies, 8(5), 492-8.
122. Zhu, H., **Wang, X.,** Dong, Y., Treiber, F. A., Snieder, H. (2005). Influence of the eNOS gene on development of blood pressure and left ventricular mass: longitudinal findings in multiethnic youth. Pharmacogenetics and genomics, 15(9), 669-75.
123. Su, S., Chen, J. H., Huang, J. F., **Wang, X.,** Zhao, J. G., Shen, Y., Qiang, B. Q., Gu, D. F. (2005). Paraoxonase gene cluster variations associated with coronary heart disease in Chinese Han women. Chinese medical journal, 118(14), 1167-74.
124. Chen, Y., Snieder, H., **Wang, X**., Kaviya, B., McCaffrey, C., Spector, T. D., Carter, N. D., O'Dell, S. D. (2005). Proopiomelanocortin gene variants are associated with serum leptin and body fat in a normal female population. European journal of human genetics : EJHG, 13(6), 772-80.
125. **Wang, X**., Trivedi, R., Treiber, F., Snieder, H. (2005). Genetic and environmental influences on anger expression, John Henryism, and stressful life events: the Georgia Cardiovascular Twin Study. Psychosomatic medicine, 67(1), 16-23.
126. Dong, Y., **Wang, X**., Zhu, H., Treiber, F. A., Snieder, H. (2004). Endothelin-1 gene and progression of blood pressure and left ventricular mass: longitudinal findings in youth. Hypertension (Dallas, Tex. : 1979), 44(6), 884-90.
127. Su, S., Chen, J., Zhao, J., Huang, J., **Wang, X.,** Chen, R., Gu, D. (2004). Angiotensin II type I receptor gene and myocardial infarction: tagging SNPs and haplotype based association study. The Beijing atherosclerosis study. Pharmacogenetics, 14(10), 673-81.
128. Dong, Y., Zhu, H., **Wang, X.,** Dalageorgou, C., Carter, N., Spector, T. D., Snieder, H. (2004). Obesity reveals an association between blood pressure and the G-protein beta3-subunit gene: a study of female dizygotic twins. Pharmacogenetics, 14(7), 419-27.
129. Zhou, X., Huang, J., Chen, J., Zhao, J., Yang, W., **Wang, X.,** Gu, D. (2004). Thrombospondin-4 A387P polymorphism is not associated with coronary artery disease and myocardial infarction in the Chinese Han population. Clinical science (London,

England : 1979), 106(5), 495-500.
130. **Wang, X.,** Huang, J., Fan, Z., Su, S., Zhao, J., Shen, Y., Qiang, B., Gu, D. (2004). Genetic and environmental factors associated with plasma paraoxonase activity in healthy Chinese. International journal of molecular medicine, 13(3), 445-50.
131. **Wang, X.,** Fan, Z., Huang, J., Su, S., Yu, Q., Zhao, J., Hui, R., Yao, Z., Shen, Y., Qiang, B., Gu, D. (2003). Extensive association analysis between polymorphisms of PON gene cluster with coronary heart disease in Chinese Han population. Arteriosclerosis, thrombosis, and vascular biology, 23(2), 328-34.
132. Ge, D., Yang, W., Huang, J., Yao, C., Xu, X., Gan, W., Zhao, J., Liu, D., **Wang, X**., Duan, X., Hui, R., Shen, Y., Yao, Z., Qiang, B., Gu, D. (2003). Linkage analysis of 2q14-q23 and 5q32 with blood pressure quantitative traits in Chinese sib pairs. Journal of hypertension, 21(2), 305-10.
133. Lu, Y., Zhao, Y., Liu, G., **Wang, X.,** Liu, Z., Chen, B., Hui, R. (2002). Factor V gene G1691A mutation, prothrombin gene G20210A mutation, and MTHFR gene C677T mutation are not risk factors for pulmonary thromboembolism in Chinese population. Thrombosis research, 106(1), 7-12.
134. Yan, W., Li, N., Hu, X., Huang, Y., Zhang, W., Wang, Q., Wang, F., Wang, C., Zhai, X., Xu, R., Yan, K., Ding, X., **Wang, X**. (2013). Reply to manuscript IJC-D-12-04197 entitled "Does alpha-lipoic acid treatment play a role on oxidative stress and insulin resistance in overweight/obese patients?" by MD Turgay Ulas. (2nd ed., vol. 168, pp. 1540). International journal of cardiology.
135. Yan, W., Li, N., Hu, X., Huang, Y., Zhang, W., Wang, Q., Wang, F., Wang, C., Zhai, X., Xu, R., Yan, K., Ding, X., **Wang, X.** (2013). Effect of oral ALA supplementation on oxidative stress and insulin sensitivity among overweight/obese adults: a double-blinded, randomized, controlled, cross-over intervention trial. (2nd ed., vol. 167, pp. 602-3). International journal of cardiology.
136. **Wang, X.,** Snieder, H. (2010). Genome-wide association studies and beyond: what's next in blood pressure genetics? (6th ed., vol. 56, pp. 1035-7). Hypertension (Dallas, Tex. : 1979).
137. Yan, W., **Wang, X.,** Yao, H., Dai, J., Zheng, Y., Yang, X., Yibulayin, X., Cui, J. (2006). Waist-to-height ratio and BMI predict different cardiovascular risk factors in Chinese children. (12th ed., vol. 29, pp. 2760-1). Diabetes care.
138. Thayer, J. F., **Wang, X.,** Snieder, H. (2006). Ethnic differences in heart rate variability: does ultralow-frequency heart rate variability really measure autonomic tone? (3rd ed., vol. 152, pp. e27). American heart journal.

Editorial on my publications

1. Franks PW, Ling C. Epigenetics and obesity: the devil is in the details. *BMC Med. 2010 Dec 21;8:88.*
2. Schillaci G, Parati G. Determinants of blood pressure variability in youth: at the roots of hypertension. *J Hypertens. 2010 Apr;28(4):660-4.*
3. Tomaszewski M, Samani NJ. Genes, circadian clock and nocturnal blood pressure. *J Hypertens. 2009 Dec;27(12):2344-5.*
4. Jones DW, Hall JE. Racial and ethnic differences in blood pressure: biology and sociology. *Circulation. 2006 Dec 19;114(25):2757-9.*
5. Howe LD, Tilling K, Lawlor DA. Studying the life course health consequences of childhood adversity: challenges and opportunities. *Circulation. 2015 May 12;131(19):1645-7. PMCID: PMC4457277.*
6. Dratva J. One step further toward a targeted screening program. *Hypertension. 2017 Mar;69(3):409-410.*
7. Morris BJ. Transcriptomics in Twins Separates Genetic From Environmental Effects on

Gene Expression and Blood Pressure. *Hypertension. 2018;71:457-464*

Papers in Chinese

1. **Wang X**, Gu D. Genetic strategies for common complex disorders: coronary heart disease as an example. *Chinese Journal of Medical Genetics*. 2000;17(6): 452-455.
2. **Wang X**, Gu D. Newer risk factors for coronary heart disease. *Chinese Journal of Prevention and Control of Chronic Non-Communicable Diseases*. 2001; 9(1): 46-48.
3. **Wang X**, Gu D, Sun F. Study on the relationship between methylenete-trahydrofolate reductase gene C677T mutation and coronary heart disease. *Chinese Journal of Medical Genetics.* 2002; 18(3): 206-208.
4. **Wang X**, Gu D, Sun F. The insertion/deletion polymorphism of angiotensin I converting enzyme gene and coronary heart disease - discordant sib pair analysis and transmission/disequilibrium test. *Hereditas*. 2002; 24(2): 120-124.
5. **Wang X**, Gu D, Yun Q. Association study on ACE gene I/D polymorphism and coronary heart disease in nuclear pedigree. *Chinese Journal of Cardiology*. 2002; 30(2):120-121.
6. **Wang X**, Fan ZJ, Huang JF, Su SY, Zhao JG, Gu DF. Polymorphisms screening of PON gene cluster *Yi Chuan*. 2005 Jul;27(4):539-43.
7. **Wang X,** Fan ZJ, Huang JF, Su SY, Zhao JG, Gu DF. Association analysis between polymorphisms of PON gene cluster with coronary heart disease in Chinese. *Yi Chuan Xue Bao*. 2005 Jul;32(7):675-81.
8. Huang, Y. D., Li, N., Zhang, W. G., Hu, X. J., Wang, Q., Wang, C. C., Xu, R. W., Yan, K., Hou, X. Y., Naerkeze, **Wang, X.,** Yan, W. L. (2011). The effect of oral alpha-lipoic acid in overweight/obese individuals on brachial-ankle pulse wave velocity and supine blood pressure: a randomized, crossover, double-blind, placebo-controlled trial. Zhonghua liu xing bing xue za zhi, 32(3), 290-6.

BOOKS AND CHAPTERS

1. **Wang X,** Snieder H. Familial aggregation of blood pressure. In: Portman RJ, Sorof JM, Ingelfinger JR, ed. Pediatric hypertension. Totowa: Humana Press Inc.; 2009, 2013, 2017
2. Snieder H, **Wang X**, Lagou V, Penninx BWJH, Riese H, Hartman CA. Role of gene-stress interactions in gene finding studies. In: Rutter M, ed. Genetic effects on environmental vulnerability to disease. Vol 293. Chichester: John Wiley & Sons; 71- 86.

http://www.ncbi.nlm.nih.gov/sites/myncbi/xiaoling.wang.1/bibliography/41167007/public/?sort=date&direction=ascending.