CURRICULUM VITAE

Jinying Zhao, MD, PhD

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**EDUCATION**

2000-2005 Ph.D. in Genetic Epidemiology & Statistical Genetics

University of Texas Health Science Center at Houston, Houston, TX

1996-1999 Ph.D. in Molecular Genetics

Chinese Academy of Medical Sciences, Beijing, China

1989-1992 Master of Science in Pathology

Zhengzhou University School of Medicine, Zhengzhou, China

1984-1989 Doctor in Medicine

Zhengzhou University School of Medicine, Zhengzhou, China

**SHORT COURSES & TRAINING**

2012 LIFE Ancillary Study Symposium, Washington DC, March 26-27

2010 The Genomics of Common Disease 2010

Baylor College of Medicine, Texas, TX

2010 Advanced Genetic Analysis

Rockefeller University, New York, NY

2010 NHLBI-Northwestern University Population Studies Workshop

Northwestern Memorial Hospital, Chicago, IL

2009 HESI Workshop on the State of the Science of Epigenetics

NIEHS Campus, Research Triangle Park, Durham, NC

2008-2009 Master of Science in Clinical Research (MSCR)

Atlanta Clinical & Translational Science Institute (ACTSI)

Emory University, Atlanta, GA

**ACADEMIC AND PROFESSIONAL EXPERIENCE**

2009- Associate Professor

Department of Biostatistics and Epidemiology

College of Public Health

University of Oklahoma Health Science Center, Oklahoma City, OK

2006 -2009 Assistant Professor

Division of Cardiology, Department of Medicine

Emory University School of Medicine, Atlanta, GA

2000 -2005 Graduate Research Assistant

Human Genetics Center, School of Public Health

University of Texas Health Science Center at Houston, Houston, TX

1999-2000 Postdoctoral Research Fellow

Human Genetics Center, School of Public Health

University of Texas Health Science Center at Houston, Houston, TX

1992-1999 Clinical Pathologist

Department of Pathology, Henan People’s Hospital, Zhengzhou, China

**HONORS AND AWARDS**

2012 Roger R. Williams Award for Genetic Epidemiology in the Prevention and Treatment of Atherosclerosis, presented by the American Heart Association (Winner)

2010, 2012 Nominee, Provost’s Research Awards

University of Oklahoma Health Science Center

2010 Outstanding Faculty Award in Research or Scholarly Achievement, presented by

College of Public Health, University of Oklahoma Health Science Center

2009 The Sandra Daugherty Award for Excellence in Cardiovascular Disease or Hypertension Epidemiology, presented by the American Heart Association (Finalist)

2008 Outstanding Research Citation Award

Division of Cardiology, Department of Medicine

Emory University School of Medicine

2007 Nominee, Early Career Research Award

Division of Cardiology, Department of Medicine

Emory University School of Medicine

2006 The [Elizabeth Barrett-Connor Research Award for Young Investigators](http://www.americanheart.org/presenter.jhtml?identifier=1628), presented by the American Heart Association (Winner)

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

2000- American Society of Human Genetics

2006- American Heart Association

2007- American Heart Association Council of Epidemiology

**COURSE TEACHING**

2010 - Course instructor

BSE 5990 – Statistical Methods in Genetic Epidemiology

Department of Biostatistics and Epidemiology

University of Oklahoma Health Science Center, Oklahoma City, OK

2012 - Course instructor

BSE 6323 – Molecular and Genetic Epidemiology

Department of Biostatistics and Epidemiology

University of Oklahoma Health Science Center, Oklahoma City, OK

2009 - Co-teaching

BSE 6363 – Cancer Epidemiology

Department of Biostatistics and Epidemiology

University of Oklahoma Health Science Center, Oklahoma City, OK

**ACADEMIC AND RESEARCH ADVISING**

**PhD Dissertation Committee Chair**

2012- Yuan Zhang

Department of Biostatistics and Epidemiology

College of Public Health, University of Oklahoma Health Science Center

**PhD Dissertation Committee Member**

2007– 2009 Tiffany A. Brunson

Morehouse School of Medicine, Atlanta, GA

2007– 2009 Isfahan Chambers

Morehouse School of Medicine, Atlanta, GA

**MS Thesis Advisor**

2012- Yun Zhu

Department of Biostatistics and Epidemiology

College of Public Health, University of Oklahoma Health Science Center

2009 – 2011 Osisanya Goldameir

Department of Biostatistics and Epidemiology

College of Public Health, University of Oklahoma Health Science Center

**Postdoctoral Fellow Supervisor**

2010– 2011 Jingyun Yang, PhD

Department of Biostatistics and Epidemiology

College of Public Health, University of Oklahoma Health Science Center

2011– 2011 Guangming Han, PhD

Department of Biostatistics and Epidemiology

College of Public Health, University of Oklahoma Health Science Center

2011– Yun Zhu, BS

Department of Biostatistics and Epidemiology, College of Public Health,

University of Oklahoma Health Science Center

**GRANTS SUPPORT**

***Active grants***

1R01DK091369 9/1/11-5/31/15

Telomere attrition and diabetes risk in American Indians

NIH/NIDDK 35% effort

Role: Principal Investigator

1K01AG034259 9/15/09-8/31/13

Biological aging, mitochondrial variants and coronary artery disease

NIH/NIA 55% effort

Role: Principal Investigator

1R21HL092363-01A2 9/30/09-6/30/13

Genetic variations in the HPA axis and comorbidity of depression and CVD

NIH/NHLBI 5% effort

Role: Principal Investigator

***Pending grants***

1R01MH097018-01

Epigenetic determinants for depression: a monozygotic discordant twin study

NIH/NIMH 45% effort

Role: Principal Investigator

[1R21ES021353-01](https://public.era.nih.gov/grantfolder/piAppDetails/genericStatus.do?encryptedParam=zeniAtDyKNg.Slj9h9aUcUL30wT0RWY3SBIBg7yiDjPzosLk6BKBwhM.)

BPA exposure and risk for obesity and diabetes in American Indians

NIH/NIEHS 10% effort

Role: Principal Investigator

1R01DK (pending submission)

Epigenomic and transcriptomic landscape of obesity in human subcutaneous adipose tissue

NIH/NIDDK 40% effort

Role: Principal Investigator

1R01HL (pending submission)

UWaTCH: University of Washington Twin Cardiovascular Health Study

NIH/NHLBI 25% effort

Role: Co-Investigator

1R21ES020762-01

Genome-wide Analysis of Gene-Environment Interaction

Role: Co-Investigator 10% effort

American Diabetes Association

Accelerated Telomere Shortening and Type 2 Diabetes Risk in American Indians: A Prospective and Genetic Study 15% effort

Role: Principal Investigator

Strong Heart Study Phase VI (R01)

NIH/NHLBI 10% effort

Role: Co-Investigator

*Completed Research Support*

AHA 0730100N1/1/07-8/31/11

Common genetic pathways linking depression to cardiovascular disease: a twin study

American Heart Association 10% effort

Role: Principal Investigator

NIH KL2 4/15/08-1/20/09

Role of mitochondrial polymorphisms in coronary artery disease and cardiovascular outcomes

(This grant was relinquished due to funding of another NIH K award) 75% effort

Role: Principal Investigator

Genotype-specific effect of cigarette smoking on CAD in American Indians 7/1/09-6/30/11

Oklahoma Tobacco Research Center10% effort

Role: Principal Investigator

Emory University Heart and Vascular Center 7/1/07-6/30/08

Blood and tissue-banking for heart and vascular diseases: The Emory Heart and Vascular Center’s Genomic Platform 5% effort

Role: Principal Investigator

Emory Center for Research on Symptoms Interactions and Health Outcomes 7/1/07-6/30/08

Genetic pathways in depressive symptoms susceptibility 5% effort

Role: Principal Investigator

Emory University Research Committee 1/1/08-12/30/08

Genetic pathways in coronary artery disease susceptibility 5% effort

Role: Principal Investigator

**PUBLICATIONS**

***Peer-Reviewed Publications***

1. **Zhao J**, Goldberg J, Bremner JD and Vaccarino V. Global DNA methylation is associated with insulin resistance: a monozygotic twin study*. Diabetes* 2012; 61(2):542-6
2. **Zhao J**, Goldberg J and Vaccarino V.Promoter methylation of the serotonin transporter gene is associated with obesity measures: a monozygotic twin study. *International Journal of Obesity* 2012 (advanced online population, January 31)
3. Yang J. Cole SA, Haack K, Zhang Y, Howard BV, Best LG, Devereux RB, Henderson JA, Henderson P, Lee ET and **Zhao J**. A gene-set analysis of 61 genetic variants in the nicotinic acetylcholine receptor genes for insulin resistance and type 2 diabetes in American Indians. *Diabetes* (in press)
4. Yang J and **Zhao J**. [Cumulative effect of common genetic variants predicts incident type 2 diabetes: a study of 21,183 subjects from three large prospective cohorts](http://www.omicsonline.org/2161-1165/2161-1165-1-108.php). *Epidemiol* 2011; 1:108.
5. PatelRS, Su S, Neeland IJ, Ahuja A, Veledar E, **Zhao J**, Helgadottir A, Holm H, Gulcher JR, Stefansson K, Waddy S, Vaccarino V, Zafari AM, Quyyumi AA. [The chromosome 9p21 risk locus is associated with angiographic severity and progression of coronary artery disease.](http://www.ncbi.nlm.nih.gov/pubmed/20729229) *Eur Heart J*. 2010; 31(24):3017-23
6. Peng G, Luo L, Siu H, Zhu Y, Hu P, Hong S, **Zhao J**, Zhou X, Reveille JD, Jin L, Amos CI, Xiong M. [Gene and pathway-based second-wave analysis of genome-wide association studies.](http://www.ncbi.nlm.nih.gov/pubmed/19584899?itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum&ordinalpos=3) *Eur J Hum Genet*. 2010; 18: 111–117
7. **Zhao J,** Quyyumi AA, Patel R, Zafari AM, Veledar E, Onufrak S, Shallenberger LH, Jones L, Vaccarino V. [Sex-specific association of depression and a haplotype in leukotriene A4 hydrolase gene.](http://www.ncbi.nlm.nih.gov/pubmed/19622707?itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum&ordinalpos=2) *Psychosom Med*. 2009;71(7):691-6
8. Vaccarino V, Votaw J, Faber T, Veledar E, Murrah NV, Jones LR, **Zhao J**, Su S, Goldberg J, Raggi JP, Quyyumi AA, Sheps DS, Bremner JD. [Major depression and coronary flow reserve detected by positron emission tomography.](http://www.ncbi.nlm.nih.gov/pubmed/19822823?itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum&ordinalpos=1) *Arch Intern Med*. 2009; 169 (18):1668-76.
9. Su S, **Zhao J**, Bremner JD, Miller AH, Tang W, Bouzyk M, Snieder H, Novik O, Afzal N, Goldberg J, Vaccarino V. Serotonin transporter gene, depressive symptoms and interleukin-6. Circ *Cardiovas Genet* 2009; 2:614-620
10. Su S. Lampert R, **Zhao J**, [Bremner JD](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Bremner%20JD%22%5BAuthor%5D), [Miller A](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Miller%20A%22%5BAuthor%5D), [Snieder H](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Snieder%20H%22%5BAuthor%5D), [Lee F](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Lee%20F%22%5BAuthor%5D), [Khan D](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Khan%20D%22%5BAuthor%5D), [Goldberg J](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Goldberg%20J%22%5BAuthor%5D), [Vaccarino V](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Vaccarino%20V%22%5BAuthor%5D). Pleiotropy of C-reactive protein gene polymorphisms with C-reactive protein levels and heart rate variability in healthy male twins. [*Am J Cardiol*.](javascript:AL_get(this,%20'jour',%20'Am%20J%20Cardiol.');) 2009; 104 (12):1748-54.
11. **Zhao J**, Cheema FA, Bremner JD, Goldberg J, Su S, Snieder H, Maisano C, Jones L, Javed F, Murrah N, Le NA and Vaccarino V. Heritability of carotid intima-media thickness: a twin study. A*therosclerosis* 2008;197:814-820
12. Su S, Snieder H, Miller AH, Ritchie J, Bremner JD, Goldberg J, Dai J, Jones L, Murrah NV, **Zhao J**, Vaccarino V. Genetic and environmental influences on systemic markers of inflammation in middle-aged male twins. Atherosclerosis. 2008; 200(1):213-20
13. **Zhao J**, Cheema FA, Reddy U, Bremner JD, Su S, Goldberg J, Snieder H, and Vaccarino V. Heritability of flow-mediated dilation: a twin study. *J Thromb Haemost* 2007; 5 (12) : 2386-2392.
14. **Zhao J**, Boerwinkle E, Xiong M. An entropy-based genome-wide transmission/disequilibrium test. *Hum Genet* 2007; 121(3-4): 357-67
15. Lee EB, **Zhao J (Equal Contribution First Author)**, Kim JY, Xiong MM and Song YW. Evidence of potential interaction of chemokine genes in systemic sclerosis susceptibility. *Arthritis and Rheumatism* 2007*;* 56(7): 2443-2448
16. Lee EB, Kim JY, **Zhao J**, Park MH, Song YW. Haplotype association of IL-8 gene with Behcet’s disease. *Tissue Antigens 2007;* 69(2): 128-132
17. **Zhao J**, Jin L, Xiong MM. Test interaction between two unlinked loci. *Am J Hum Genet*  2006 ; 79(5) : 831-845
18. **Zhao J**, Jin Li, Xiong MM. Nonlinear tests for genome-wide association studies. *Genetics 2006 ;* 174:1529-1538
19. **Zhao J**, Boerwinkle E, Xiong MM. Impact of haplotype frequency estimation error on test statistics in association studies. *Am J Hum Genet* 2006 ; 78 : 728-729
20. **Zhao J,** Boerwinkle E and Xiong MM. An entropy-based statistic for genome-wide association studies. *Am J Hum Genet* 2005; 77: 27-40
21. **Zhao J**, Xiong MM, Huang W, et al. An autosomal genomic scan for loci linked to type 2 diabetes in northern Han Chinese population. *J Mol Med* 2005; 209: 209-215
22. Xiong MM, **Zhao J**, Xiong H. Network-based regulatory pathways analysis. *Bioinformatics* 2004; 20(13):2056-2066
23. Xiong MM, **Zhao J**, Boerwinkle E. Haplotype block linkage disequilibrium mapping. *Frontiers in Bioscience 2003;* 8: 85-93
24. Xiong MM, **Zhao J**, Boerwinkle E. Generalized T2 test for genome association studies. *Am J Hum Genet* 2002; 70:1257-1268
25. **Zhao J**, Li WJ and Xiong MM. Population-based linkage disequilibrium mapping of QTL: An application to simulated data in an isolated population. *Genet Epidemiology* 2001; 21(Suppl 1): S655-S659
26. Xiong MM, Li WJ, **Zhao J**, Jin L and Boerwinkle E. Feature (gene) selection in gene expression-based tumor classification. *Molecular Genetics and Metabolism 2001;* 73: 239-247
27. Xiong MM, Fang XZ, **Zhao J.**  Biomarker identification by feature wrappers. *Genome Research* 2001; 11:1878-1887
28. **Zhao J**, Wang H, Xiong MM, Huang W, Zuo J, Chen Z, Qiang BQ, Sun Q, Li YX, Fang FD. Localization of type 2 diabetes susceptibility genes in northern Chinese Han families. *Chinese Science Bulletin* 2000; 45(19):1792-1795
29. Yuan WT, Xu HY, **Zhao J**, Ding W, Jiang HQ, Gu MM, Xue JL, Chen JL, Fang FD, Chen Z, Jin L and Huang W. Information behavior of microsatellite loci in genome scanning. *Chinese Journal of Medical Genetics* 2000; 2(17):45-49
30. **Zhao J**, Wang H, Xing MM, Huang W, Zuo J, et al. Mapping of type 2 diabetes susceptibility genes in the northern Chinese Han families *Acta Academiae Medicinae Sinicae* 2000; 45:1154-1157
31. **Zhao J**, Wang H, Zuo J, Li YX, Sun Q, Huang W, Chen Z, Cai YY and Fang FD. Genotyping and localization of genes associated with type 2 diabetes in Chinese population. *Acta Anatomica Sinica* 1999; 30(4):11-17
32. Li YX, **Zhao J**, Wang H. Type 2 diabetes family survey, collection and genotype analysis in Beijing district. *Basic Medicine Science and Clinics*. 1999; 3:383-384
33. **Zhao J**, Cai YU and Fang FD. Genetic linkage analysis methods for the localization of polygenic disorders. *Basic Medical Sciences and Clinics* 1999; 19(1):6-9
34. **Zhao J**, Zuo J, Xiao XH, Sun Q, Wang H Fang FD and Cai YY. Database establishment of Chinese non-insulin-dependent-diabetes (NIDDM) pedigrees. *Acta Academiae Medicinae Sinicae* 1998; 20:69
35. **Zhao J**, Fang FD and Cai YY. Positional candidate approaches for human disease gene cloning. *Basic Medicine Science and Clinics* 1997; 17 (5):23-25
36. **Zhao J**, Zhu QF, Wu KJ and Li XY. Human papillomaviruses and the esophageal carcinomas of Taihang Macaca Mulatta. *Chinese Journal of Zoology* 1995; 30(3):35-37
37. **Zhao J**, Zhu QF, Wu KJ. Analyses of DNA in penile condyloma acuminate and carcinomas by flow cytometry. *Chinese Journal of Dermatology* 1994; 8(4):217-218
38. Yin PZ, **Zhao J**, Cheng SJ, Hara Y, Zhu QF and Liu ZG. Experimental studies of the inhibitory effects of green tea catechin on mice large intestinal cancers induced by 1,2-dimethylhydrazine. *Cancer Letters* 1994; 79: 33-38
39. **Zhao J**, Jin WM, Li JX and Ding XZ. Quantitative studies of nuclear organizer regions in retinoblastoma. *Chinese Journal of Ocular Fundus* 1993; 9(4):202-204
40. **Zhao J**, Zhu QF and Wu KJ. Researches on the relationship between human papillomaviruses and human penile condylomas and carcinomas. *Chinese Journal of Urology* 1993; 14(3):207-209
41. **Zhao J** and Wu KJ. Human papillomaviruses and cancer. *Henan Medical Research* 1993; 2(1):85-88
42. **Zhao J** and Zhu QF. Sequencing of human papillomaviruses DNA in the esophageal carcinomas of Taihang Mountain Macaca Mulatta by dot blot hybridization. *Journal of Shanghai Experimental Animal Science* 1993; 13(2):78-79
43. **Zhao J**, Zhu QF, Cheng SJ, Ling Y and Fu XL. Studies of micronuclei and apoptosis in mice colon cancer induced by 1,2-DMH. *Acta Nutrimenta Sinica* 1992; 14(3):255-259
44. **Zhao J** and Zhu QF. Quantitative studies of nuclear organizer regions in penile condyloma and carcinomas. *Henan Medical Research* 1992; 1(2):149-153
45. **Zhao J** and Zhu QF. Studies of the relationship between human papillomaviruses and sporadic esophageal carcinomas in the Tanhang Mountain monkeys. *Journal Experimental Animal Science* 1991; 1: 126-130
46. **Zhao J**, Chang FJ, Zhu QF, Zhu DM, Ji HL and Zhang HX. Analysis of nucleic acid sequence by molecular hybridization technique on human papillomaviruses (HPVs) in esophagus carcinoma of Macaques in Taihang Mountains. *Journal Experimental Animal Science* 1991; 1:126-138
47. **Zhao J**, Zhu QF, Cheng SJ, Ling Y and Fu SL. The antagonism of extract of green tea on the micronucleus and apoptosis of cryptic epithelial cells of large intestine of mice by 1,2-dimethyl hydrazine. *Journal Experimental Animal Science 1991;*1:146-151

***Manuscripts under review or being revised***

1. **Zhao J**, Lee ET, Goldberg J, Cole SA, Haack K, Zhang Y, Best LG, Roman MJ, Devereux RB, Howard BV, Vaccarino V. Leukotriene haplotype, diet and subclinical atherosclerosis: findings from two distinct populations.
2. **Zhao J**, Goldberg J, Bremner JD and Vaccarino V. Promoter methylation of serotonin transporter gene is associated with depression: a monozygotic twin study.
3. **Zhao J,** Forsberg CW, Goldberg J, Smith NL and Vaccarino V.MAOA promoter methylation and susceptibility to carotid atherosclerosis: role of familial factors in a monozygotic twin sample
4. **Zhao J**, Zhu Y, Boerwinkle E and Xiong M. The smoothed functional principal component analysis for pathway analysis with next-generation sequencing data
5. **Zhao J,** Goldberg J, Vaccarino V. Leukotriene A4 hydrolase haplotype, diet and atherosclerosis: a twin study.

***Manuscripts submitted or in preparation***

1. Yang J, Cole SA, Haack K, Howard BV, Best LG, Devereux RB, Lee ET and **Zhao J**.Gene and pathway-based analysis of 61 genetic variants in the nicotinic acetylcholine receptor genes and carotid plaque in American Indians: The Strong Heart Family Study
2. Yun Zhu, Lee ET, Cole SA, Haack K, Howard BV, Best LG, Devereux RB, **Zhao J**. A gene x diet interaction between ALOX5 haplotype and dietary intake of omega-6 fatty acids on subclinical cardiovascular disease in American Indians.
3. Yang J, Cole SA, Haack K, Howard BV, Best LG, Devereux RB, Lee ET and **Zhao J**. Association between genetic variants in smoking-related genes and obesity in American Indians: a gene set analysis.
4. Yang J, Cole SA, Haack K, Howard BV, Best LG, Devereux RB, Lee ET and **Zhao J**. A gene-family analysis of 32 SNPs in the leukotriene pathway and diabetes in American Indians: The Strong Heart Family Study.
5. **Zhao J**, Cowan LD, Zhang Y, Howard BV, Lee ET. Smoking-attributable mortality in American Indians.
6. **Zhao J**, Goldberg J, Bremner JD and Vaccarino V. Promoter methylation of NR3C1 gene is associated with both depressive symptoms and subclinical cardiovascular disease in a monozygotic sample: a common epigenetic pathway?
7. Yang J, Vaccarino V, Snieder H, Goldberg J and **Zhao J**. Genetic and environmental contributions to the covariation of depressive symptoms and coronary flow reserve: a twin study.

***Abstracts presented at national or international meetings***

1. **Zhao J**, Goldberg J and Vaccarino V. Promoter methylation of glucocorticoid receptor gene is associated with subclinical cardiovascular disease: a monozygotic twin study. TheNutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Diego, March 13-16, 2012. *(This abstract won the Rogers R. Williams Award for Genetic Epidemiology, presented by the American Heart Association, 2012)*
2. **Zhao J**, Zhu Y, Boerwinkle E, Xiong M. The smoothed functional principal component analysis for pathway analysis with next-generation sequencing data.International Conference on Intelligent Biology and Medicine (ICIBM 2012) Nashville, TN, April 22-24, 2012
3. Yang J, Cole SA, Haack K, Howard BV, Best LG, Mary RJ, Devereux RB, Lee ET and **Zhao J**. Joint impact of 61 genetic variants in seven nicotinic acetycholine receptor genes on subclinical atherosclerosis in American Indians: a gene-set analysis. TheNutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Diego, March 13-16, 2012.
4. Yang J, Cole SA, Haack K, Howard BV, Best LG, Roman RJ, Devereux RB, Lee ET and **Zhao J**. A pathway analysis of 32 genetic variants in leukotriene genes and subclinical atherosclerosis in American Indians: the Strong Heart Family Study. TheNutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, San Diego, March 13-16, 2012.
5. Yang J, Cole SA, Haack K, Howard BV, Best LG, Devereux RB, Lee ET and **Zhao J**.Gene and Pathway-based Analysis of 61 Genetic Variants in the Nicotinic Acetylcholine Receptor Genes and Insulin Resistance in American Indians.The 61th Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011
6. Yang J, Cole SA, Haack K, Howard BV, Best LG, Devereux RB, Lee ET and **Zhao J**.Gene and Pathway-based Analysis of 61 Genetic Variants in the Nicotinic Acetylcholine Receptor Genes and Insulin Resistance in American Indians.The 61th Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011
7. **Zhao J,** Cowan LD, Yang J, Zhang Y, Cole SA, Haack K, Howard BV, Lee ET. Leukotriene haplotype, diet and insulin resistance: the Strong Heart Study. TheNutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Atlanta, March 22-25, 2011
8. Yang J, Cowan LD, Zhang Y, Cole SA, Haack K, MacCluer JW, Howard BV, Lee ET, **Zhao J**. NOS3 genotype, dietary intake and insulin resistance: The Strong Heart Family Study. TheNutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Atlanta, March 22-25, 2011
9. Yang J, Zhang Y, Cowan LD, Cole SA, Haack K, MacCluer JW, Howard BV, Lee ET and **Zhao J**. Cumulative association of 62 genetic variants in a smoking-metabolizing pathway with insulin resistance in American Indians: The Strong Heart Family Study. TheNutrition, Physical Activity and Metabolism and the Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Atlanta, March 22-25, 2011
10. **Zhao J,** Forsberg CF, Yang J, Goldberg J, Smith NL, Vaccarino V. MAOA methylation is associated with subclinical atherosclerosis in a monozygotic twin sample.American Heart Association Scientific Session, Chicago, IL, Nov 13-17, 2010
11. **Zhao J,** Wu X, Zhu Y, Xiong M. A novel statistic for testing genetic interactions between linked loci. The 60th Annual Meeting of the American Society of Human Genetics, Washington, DC, Nov 2-6, 2010
12. Yang J, Bouzyk M, Goldberg J, Vaccarino V, **ZhaoJ**. Interaction between monoamine oxidase A gene polymorphism and childhood emotional abuse on susceptibility to early atherosclerosis: a twin study. The 60th Annual Meeting of the American Society of Human Genetics, Washington, DC, Nov 2-6 , 2010
13. **Zhao J**, Goldberg J, Bremner JD, Jones L, Bouzyk M, Tang W, Vaccarino V. Dietary intake modifies the effect of leukotriene A4 hydrolase gene on subclinical atherosclerosis. The49th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Palm Harbor, FL, March 10-14, 2009
14. **Zhao J**, Goldberg J, Su S, Bouzyk M, Tang W, Bremner JD, Jones L, Murrah N, Vaccarino V. Leukotriene A4 hydrolase gene polymorphism is associated with subclinical atherosclerosis. The49th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Palm Harbor, FL, March 10-14, 2009
15. Su S, **Zhao J**, Bremner JD, Miller AH, Bouzyk M, Snieder H, Goldberg J, Vaccarino V. haplotypes of serotonin transporter gene associated with both depressive symptoms and interleukin-6 in middle-aged males: the twins heart study. The49th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Palm Harbor, FL, March 10-14, 2009
16. **Zhao J**, Bremner JD, Bouzyk M, Tang W, Goldberg J, Afzal N, Murrah N, Jones L, Vaccarino V. Tryptophan hydroxylase gene haplotypes modify the effect of childhood emotional abuse on symptoms of depression, American Heart Association Scientific Session, Orlando, FL, Nov 14-18, 2009
17. **Zhao J**, Riyaz Patel, A. Maziar Zafari, Viola Vaccarino, Arshed A. Quyyumi. A potential common genetic pathway linking depression to cardiovascular disease. The 58th Annual Meeting of the American Society of Human Genetics, Philadelphia, Nov 11-15, 2008
18. Luo L, Peng G, Siu H, Zhu Y, Hu P, Hong S, **Zhao J**, Zhou X, Reveille J, Amos C, Jin L, Xiong M. Gene and pathway-based analysis second wave of GWAS. The 58th Annual Meeting of the American Society of Human Genetics, Philadelphia, Nov 11-15, 2008
19. **Zhao J**, Quyyumi AA, Patel R, Qureshi I, Warren F, Zafari AM, Veledar E, Onufrak S, GulcherJR and Vaccarino V. Gender-Specific Association of Depression and a Haplotype in Leukotriene A4 Hydrolase Gene. The 48th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Colorado Springs, CO, March 13-15, 2007
20. Veledar E, Narayan V, Wenger N, **Zhao J**, Shaw L, Wilson P, Vaccarino V. Trends in Coronary Heart Disease (CHD) Incidence and Mortality Rates in US Women. The 48th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Colorado Springs, CO, March 13-15, 2007
21. **Zhao J**, Cheema FA, Bremner JD, Goldberg J, Su S, Snieder H, Maisano C, Jones L, Murrah N and Vaccarino V. Heritability of carotid intima-media thickness: a twin study. American Heart Association Annual Meeting, Chicago, Illinois, Nov 12-15, 2006
22. **Zhao J**, Cheema FA, Reddy U, Bremner JD, Su S, Goldberg J, Snieder H, and Vaccarino V. Heritability of flow-mediated dilation: a twin study. The 47th Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Orlando, FL, Feb 28-Mar 3, 2006
23. **Zhao J**, Jin L and Xiong MM. Nonlinear tests for genome-wide association studies. The 55th Annual Meeting of the American Society of Human Genetics, Salt Lake City, Utah, Oct 25-29, 2005
24. Wang Y, **Zhao J**, Zhou XD, Wang W, Jin L and Xiong MM(2005) Identification of genetic interaction networks. The 55th Annual Meeting of the American Society of Human Genetics, Salt Lake City, Utah, Oct 25-29, 2005
25. Xiong MM, **Zhao J**, Boerwinkle E and Amos C. Nonlinear transmission/disequilibrium test. The 55th Annual Meeting of the American Society of Human Genetics, Salt Lake City, Utah, Oct 25-29, 2005
26. **Zhao J** and Xiong MM. Global test for genome-wide association studies. The American Journal of Human Genetics, A511. The 54th Annual Meeting of the American Society of Human Genetics, Toronto, Ontario, Canada, 2004
27. Xiong MM, **Zhao J**, Boerwinkle E. Dynamic models for quantitative genetics. The American Journal of Human Genetics, A511. The 54th Annual Meeting of the American Society of Human Genetics, Toronto, Ontario, Canada, Oct 26-30, 2004
28. Zhou X, **Zhao J**, Arnett FC, Xiong MM. Candidate pathway approach to genetic studies of complex traits. The 53th Annual Meeting of the American Society of Human Genetics, Los Angeles, CA, Nov 4-8, 2003
29. Xiong MM and **Zhao J.** Genetic and transcriptional analysis of metabolic networks. The 53th Annual Meeting of the American Society of Human Genetics, Nov 4-8, Los Angeles, CA, Nov 4-8, 2003
30. Li Y, Liu L, **Zhao J**, Zuo J, Fang F. Pank4, a novel pantothenate kinase gene is a candidate gene for type 2 diabetes mellitus. The 53th Annual Meeting of the American Society of Human Genetics, Los Angeles, CA, 2003
31. Wu G, **Zhao J**, Yang C, Wang H, Zuo J, Wang Y, Liu Z, Zhang Y, Shen Y, Qiang B, Huang W, Zhu C, Fang F. Association analysis of genetic polymorphisms in sac, pank4, casp9, and cdc22 genes with type 2 diabetes in Han Chinese of Northern China. The 53th Annual Meeting of the American Society of Human Genetics, Los Angeles, CA, Nov 4-8, 2003
32. **Zhao J** and Xiong MM. Genetic analysis of function-valued traits. The 53th Annual Meeting of the American Society of Human Genetics, Los Angeles, CA, Nov 4-8, 2003
33. **Zhao J** and Xiong MM. Unbiased quantitative population association test. The 52th Annual Meeting of the American Society of Human Genetics, Baltimore, Maryland, Oct 15-19, 2002
34. Sun H, **Zhao J**, Du W, Wang H, Zuo J, Qiang B, Shen Y, Yao Z, Huang W, Chen Z, Xiong M, Fang F. SNP analysis of candidate genes associated with type 2 diabetes in Chinese Han population. The 52th Annual Meeting of the American Society of Human Genetics, Baltimore, Maryland, Oct 15-19, 2002
35. **Zhao J** and Xiong MM. The generalized T2 test for biomarker identification using gene expression data. The 51th Annual Meeting of the American Society of Human Genetics, San Diego, CA, Oct 12-16, 2001
36. Xiong MM, **Zhao J**, Li J, E Boerwinkle. Dynamic models for mapping quantitative traits with time-dependent genetic effects. The 51th Annual Meeting of the American Society of Human Genetics, San Diego, CA, Oct 12-16, 2001
37. Xiong MM, **Zhao J**, Jin L, Boerwinkle E. Fine-scale mapping of quantitative traits loci by internal mapping in human population. The 50th Annual Meeting of the American Society of Human Genetics, Philadelphia, PA, Oct 3-7, 2000
38. **Zhao J**, Amos C, Boerwinkle E, Xiong MM. Multiple-marker locus and multiple trait-locus linkage disequilibrium mapping of quantitative trait loci with epitasis. The 50th Annual Meeting of the American Society of Human Genetics, Philadelphia, PA, Oct 3-7, 2000
39. **Zhao J,** Xiong MM, Huang W, Wang H, Zuo J, Chen Z, Qiang B, Zhang ML, Du WN, Chen JL, Ding W, Yuan WT, Zhao Y, Xu HY, Jin L, Li YX, Sun Q, Liu QY, Fang FD. Type 2 diabetes susceptibility loci maps on chromosomes 1 and 20 in Chinese Han families. The 49th Annual Meeting of the American Society of Human Genetics, San Francisco, CA, Oct 19-23, 1999

**PROFESSIONAL ACTIVITIES**

*Ad hoc NIH grants reviewer*

2011 The Clinical and Integrative Cardiovascular Sciences (CICS) Study Section

2012 The Cardiovascular and Sleep Epidemiology (CASE) Study Section

2012 5VA RFAs for Gulf War-related research

2011, 2012 The Biomedical Computing and Health Informatics Study Section (BCHI)

2012 NIH Small Business (SBIR) applications

*Ad hoc reviewer for peer-reviewed journals (since 2006, incomplete list):*

Arteriosclerosis, Thrombosis, and Vascular Biology; Diabetes; Diabetologia; Atherosclerosis; Journal of the American College of Cardiology; International Journal of Obesity; American Journal of Epidemiology; International Journal of Epidemiology; American Journal of Human Genetics; Europe Journal of Human Genetics; American Journal of Medical Genetics; Genetics; Human Genetics; BMC Genetics; Human Heredity; Bioinformatics; Clinical Epigenetics; Genome Research; Psychosomatic Medicine; Biological Psychiatry; PLOS Genetics; PLOS Medicine; Statistical Applications in Genetics and Molecular Biology; Molecular Biology Reports; Schizophrenia Research.

*Editorial Member*

* Epidemiology: Current Research
* Neural Regeneration Research (NRR)
* ISRN Genetics

*School or University Committee*

2010 - Graduate Faculty Appointments Committee

University of Oklahoma Health Science Center

2011- Faculty Senates

University of Oklahoma Health Science Center

2010 Great Judge

University of Oklahoma Health Science Center

2010- Professional Practice Committee

University of Oklahoma Health Science Center

*Invited Talks*

2012 “Genetic and Epigenetic factors for CVD and its Risk Factors”

Emory University School of Public Health, Atlanta, GA

2010 Genetic studies on type 2 diabetes and its risk factors

School of Medicine, University of Oklahoma HSC, Oklahoma City, OK

2009 “Genetic determinants for diabetes and its related phenotypes”

Clinical Endocrinology and Metabolism Forum

Chinese Academy of Medical Science, Beijing, China

2009 “Genome-wide linkage and association analysis for type 2 diabetes”

Endocrinology Research Conference

University of Oklahoma Health Science Center, Oklahoma City, OK

2008 “Genetic linkage and association analysis”

Cardiovascular Research Institute

Morehouse School of Medicine, Atlanta, GA

2008 “Genetic Susceptibility to Coronary Artery Disease”

Division of Biostatistics and Epidemiology

Medical University of South Carolina, Charleston, SC