

CURRICULUM VITAE
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University of Texas Health
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Education:

	<u>Degree</u>	<u>Date</u>	<u>Major Field</u>
University of Texas, Austin, Texas	B.A.	1978	Anthropology
University of Michigan, Ann Arbor, Michigan	Ph.D.	1983	Human Genetics
Stanford University Medical School, Stanford, CA	Postdoctoral	1985	Molecular Genetics

Present Position:

2000-Present Professor with tenure, Human Genetics Center, School of Public Health,
University of Texas Health Science Center at Houston, Houston, TX.

Previous Positions:

- 1978 – 1983 Predoctoral Fellow and Trainee, Human Genetics, Genetics Training Grant (NIH),
University of Michigan, Ann Arbor, MI.
- 1983 – 1985 Postdoctoral Fellow, Pathology Department, Stanford University Medical School,
Stanford, CA.
- 1985 - 1989 Assistant Scientist, Department of Genetics, Southwest Foundation for
Biomedical Research (SFBR), San Antonio, TX.
- 1986 - 1990 Assistant Professor, Department of Cellular and Structural Biology, University of
Texas Health Science Center at San Antonio (UTHSCSA) San Antonio, TX.
- 1990 – 1993 Associate Scientist, Department of Genetics, SFBR, San Antonio, TX.
- 1990 - 1993 Associate Professor, Department of Cellular and Structural Biology, UTHSCSA,
San Antonio, TX.

1994 – 1999 Chairman and Scientist, Department of Genetics, SFBR, San Antonio, TX.

1994 – 1999 Professor, Department of Cellular and Structural Biology, UTHSCSA, San Antonio, TX

Professional Societies:

American Association for the Advancement of Science

American Heart Association (Fellow, Council on Arteriosclerosis, Thrombosis, and Vascular Biology)

American Society of Human Genetics

Boards and Committees:

Editorial Board for AHA journal: Arteriosclerosis, Thrombosis, and Vascular Biology

Awards:

Phi Beta Kappa, 1978

NIH Predoctoral Traineeship, 1978 - 1982

University of Michigan Cancer Research, 1983

American Cancer Society Postdoctoral Fellowship, 1983 – 1985

Gilbert W. Beebe Fellowship, The National Academies of Sciences (2003-2004)

Manuscript Reviewer:

American Journal of Human Genetics

Arteriosclerosis, Thrombosis, and Vascular Biology

Atherosclerosis

Circulation

Genomics

Human Biology

Journal of Lipid Research

Nature Medicine

New England Journal of Medicine

Grant Reviewer:

National Institutes of Health

National Science Foundation

Academic activities

UT-Houston School of Public Health

Chair, Epidemiology Division Search Committee

MPH and DrPH Committees

MS and PhD Committees

UT-Houston

Faculty member, UT Medical School at Houston Medical Genetics Training Program

UT-Houston Graduate School of Biomedical Sciences (GSBS)

Director, Human and Molecular Genetics Program

Member, GSBS Program Coordinating Committee

MS and PhD Committees

Teaching:

Course coordinator, "Molecular and Cellular Approaches in Human Genetics"

Course coordinator, "Current Topics in Human and Molecular Genetics"

Lecturer, "Genetic Epidemiology of Chronic Disease"

Lecturer, "Genetics of Human Disease"

Lecturer, "Epidemiologic Proposal Development"

Lecturer, "Advanced Methods In Epidemiology II"

Current Grant Support

U01-HL072507 09/30/02 – 08/31/07
NIH/NHLBI
Genetic Epidemiology of Blood Pressure Intervention
This project will investigate the role of genetic and environmental factors and their interactions on essential hypertension in families from rural China.

U01-HL072524 09/30/02 – 08/31/07
NIH/NHLBI
Genetic and Environmental Determinants of Triglycerides
This project focuses on the interaction of genetic and environmental factors to influence interindividual TG response to dietary challenge and drug intervention.

R01-HL072810 06/01/03 – 05/31/07
NIH/NHLBI
Modeling DNA Diversity in Reverse Cholesterol Transport
This Collaborative Research Project grant addresses four questions: 1) How much genetic variation exists in genes that influence reverse cholesterol transport (RCT)? 2) Which DNA sequence variations (or combination of variations) are responsible for the effects of each gene on interindividual variation in measures of RCT? 3) Which combination of genes has the greatest impact on interindividual variation in measures of RCT? and 4) Is there evidence for gene-by-gene and genotype-by-environmental interactions? i.e., are the effects of particular genetic variations homogeneous between genders, among strata within populations and among populations that differ in genetic and environmental backgrounds?

P50-GM065509 09/01/01 – 08/31/07
NIH/NIGMS
Genomic Approaches to Common Chronic Disease
This project will test all genes on chromosome 19 that are expressed in the liver using SNPS for association studies with multiple disease-related phenotypes in subjects from the NIH CARDIA Study.

PO1-HD047609-01A1 Wadhwa (PI) 07/1/05 – 06/30/10
NIH/NICHD
Gene-Environment Interactions in Human Parturition
Project 1: Population Structure of Genetic Variation in Pregnancy
Project 1 of this program project will characterize patterns of genetic variation at candidate loci involved in human parturition in three racial/ethnic groups (African Americans, Caucasians, Hispanics). This information will be used to guide genotyping and statistical analyses to identify polymorphisms that influence premature birth in these racial/ethnic groups.

PO1-HD047609-01A1 07/1/05 – 06/30/10
NIH/NICHD

Gene-Environment Interactions in Human Parturition

Core C: Genotyping Core

Core C is responsible for high-throughput genotyping of DNA samples from mother-offspring pairs for candidate genes involved in human parturition. DNA variants will be chosen for genotyping based on structures of genetic variation as determined in Project 1.

RO1-HL080443-01A1

03/15/06 – 02/28/10

NIH/NHLBI

SNPs and Extent of Atherosclerosis (SEA) Study

The SEA project will perform Genome Wide Association (GWA) to identify genes and polymorphisms that influence atherosclerosis and related phenotypes.

BIBLIOGRAPHY
James E. Hixson, Ph.D.

INVESTIGATIVE ARTICLES

1. Hixson, J.E. and Clayton, D.A. Initiation of transcription from each of the two mitochondrial promoters requires unique nucleotides at the transcriptional start site. *Proc. Natl. Acad. Sci. (USA)* 82:2660-2664, 1985.
2. Chang, D.D., Hixson, J.E., and Clayton, D.A. Minor transcription events indicate that both human mitochondrial promoters function bidirectionally. *Molec. Cell. Biol.* 6:294-301, 1986.
3. Chang, D.D., Wong, T.W., Hixson, J.E., and Clayton, D.A. Regulatory sequences for mammalian mitochondrial transcription and replication. In: *Achievements and Perspectives of Mitochondrial Research, Volume 2: Biogenesis; Proceedings of the International Symposium, Rosa Marina, Italy, 1985.* Edited by E. Quagliariello, E.C. Slater, F. Palmieri, C. Saccone, and A.M. Kroon. Amsterdam, Elsevier Science Publishing Company, 1986. pp. 99-110.
4. Hixson, J.E. and Brown, W.M. A comparison of the 12S rRNA genes from the mitochondrial DNA of humans and the great apes: Sequence, structure, and evolution. *Molec. Biol. Evol.* 3:1-18, 1986.
5. Hixson, J.E., Wong, T.W., and Clayton, D.A. Both the conserved stem-loop and divergent 5'-flanking sequences are required for initiation at the human mitochondrial origin of light-strand DNA replication. *J. Biol. Chem.* 261:2384-2390, 1986.
6. Fisher, R.P., Hixson, J.E., and Clayton, D.A. Mitochondrial transcription factor binds novel control elements of both major promoters of human mtDNA. In: *Cetus-UCLA Symposium, Keystone, Colorado, 1986.* Edited by D. Granner, M.G. Rosenfeld, and S. Chang. New York, Alan R. Liss, 1987. pp. 103-112.
7. Hixson, J.E. DNA markers in primate models for human disease. *Genetica* 73:85-90, 1987.
8. Hixson, J.E. and Britten, M.L. The baboon β -myosin heavy chain gene: Construction and characterization of cDNA clones and gene expression in cardiac tissues. *Gene* 64:33-42, 1988.
9. Hixson, J.E., Borenstein, S., and Cox, L.A. The baboon apo E gene: Structure, expression, and linkage with the apo C-I gene. *Genomics* 2:315-323, 1988.
10. Foran, D.R., Hixson, J.E., and Brown, W.M.: Comparisons of ape and human sequences that regulate mitochondrial DNA transcription and D-loop DNA synthesis. *Nucleic Acids Res.* 16:5841-5861, 1988.
11. Hixson, J.E., Borenstein, S., Cox, L.A., Rainwater, D.L., and VandeBerg, J.L. The

- baboon gene for apolipoprotein A-I: Characterization of a cDNA clone and identification of DNA polymorphisms for genetic studies of cholesterol metabolism. *Gene* 74:483-490, 1988.
12. Hixson, J.E., Britten, M.L., Manis, G.S., and Rainwater, D.L. Apo(a) glycoprotein isoforms result from size differences in apo(a) mRNA in baboons. *J. Biol. Chem.* 264:6013-6016, 1989.
 13. Hixson, J.E., Kammerer, C.M., Cox, L.A., and Mott, G.E. Identification of an LDL receptor gene marker associated with altered levels of LDL-cholesterol and apolipoprotein B in baboons. *Arteriosclerosis* 9:829-835, 1989.
 14. Hixson, J.E., Henkel, R.D., Britten, M.L., Vernier, D.T., deLemos, R.A., VandeBerg, J.L., and Walsh, R.A. α -myosin heavy chain cDNA structure and gene expression in adult, fetal, and premature baboon myocardium. *J. Mol. Cell. Cardiol.* 21:1073-1086, 1989.
 15. Hixson, J.E., Borenstein, S., and Cox, L.A. PvuII RFLP for the lecithin-cholesterol acyltransferase gene (LCAT) in baboons. *Nucleic Acids Res.* 18:384, 1990.
 16. Hixson, J.E. and Vernier, D.T. Restriction isotyping of human apolipoprotein E by gene amplification and cleavage with HhaI. *J. Lipid Res.* 31:545-548, 1990.
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 18. Pathobiological Determinants of Atherosclerosis in Youth (PDAY) Research Group. Relationship of atherosclerosis in young men to serum lipoprotein cholesterol concentrations and smoking. A preliminary report from the PDAY Research group. *JAMA* 264: 3018-3024, 1990.
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- Group. Polymorphism in the apolipoprotein (a) gene promoter region and atherosclerosis in right coronary artery of young white males. *Pennington Center Nutrition Series: Nutrition, Genetics, and Heart Disease*, 6:224-238, 1996.
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- chromosomes 3 and 4 that influence cholesterol concentrations in small LDL particles. *Arterioscler., Thromb., and Vasc. Biol.*, 19:777-783, 1999.
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