

CURRICULUM VITAE
James E. Hixson, Ph.D.

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Office Address: Human Genetics Center
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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, Human Genetics Center, Department of Epidemiology, School of Public Health, UTHealth Houston

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

Editorial Boards:

Current Genetic Medicine Reports

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

UTHealth GSBS: Outstanding contribution towards graduate education as the Chair of the Curriculum Committee (\$1,000) 2016

Manuscript Reviewer:

American Journal of Human Genetics

Arteriosclerosis, Thrombosis, and Vascular Biology

Atherosclerosis

BMC Medical Genomics

Circulation

European Journal of Clinical Investigation

Genomics

Human Biology

Journal of Lipid Research

Nature Medicine

New England Journal of Medicine

PLoS One

Grant Reviewer:

National Institutes of Health (NIH)

Florida Department of Health (FLDOH)

Pennsylvania Department of Health (PADOH)

ACADEMIC ACTIVITIES

UTHealth School of Public Health

MPH and DrPH Committees

MS and PhD Committees

Epidemiology Admissions Committee

UTHealth Houston

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

Member, UTHealth Committee for the Protection of Human Subjects (2014-2017)

UTHealth Graduate School of Biomedical Sciences (GSBS)

Director, Human and Molecular Genetics Program (2006-2008)

Chair, GSBS Curriculum Committee (2015-2016)

Member, GSBS Curriculum Committee (2014-present)

MS and PhD Committees

Current Teaching

Instructor, "Epidemiology Proposal Development"

Co-Instructor, "Epidemiology Capstone"

Doctoral Students (Hixson Advisor)

Chung, Charlie C. (UT-GSBS) 2001-2007

Dissertation: Glucocorticoid Receptor gene variation and effects on hypertension

Mak, Solida (UT-GSBS) 1999-2007

Dissertation: Expression study of atherosclerotic mouse aorta revealed significant disturbance of calcium signaling pathway

Leduc, M (UT-GSBS) 2002-2007

Dissertation: Identification of genetic variation influencing apolipoprotein E levels: Follow-up of genome-wide linkage scans in the GENOA study

Montasser, May E. (UT-SPH) 2001-2008

Dissertation: Gene and Smoking Interaction in hypertension

Polfus, Linda M. (UTSPH-H) 2009-2013

Dissertation: GENOA Rochester GWAS analysis,
GXE Traineeship recipient from Burroughs-Wellcome

RESEARCH SUPPORT

Current

R01-DK125782 Kelly (PI) 5/13/21 - 3/31/26
Clonal Hematopoiesis of Indeterminate Potential (CHIP) in Chronic Kidney Disease Patients
This project will characterize the role of Clonal Hematopoiesis of Indeterminate Potential (CHIP) in chronic kidney disease in subjects from the Chronic Renal Insufficiency Cohort (CRIC) study.
Role: Co-Investigator (PI of UTHealth Subcontract)

Selected Completed Research Support

R01-HL111362 Herrington (PI) 4/01/18 - 1/31/23
Genomic and Proteomic Architecture of Atherosclerosis
This project will use proteomic and RNA-Seq technologies to characterize the molecular changes that produce arterial atherosclerotic plaques that ultimately cause ischemic cardiovascular events. The UT-Houston laboratory will be responsible for RNA-Seq analysis of autopsied arterial specimens collected at multiple sites, with and without atherosclerotic lesions.
Role: Co-Investigator (PI of UTHealth Subcontract)

R01-DK101505 Kelly (PI) 8/21/15 - 5/31/21
Whole Exome Sequencing Study of Diabetic Nephropathy
This project will use whole exome sequencing to identify genetic variants that influence chronic kidney disease in diabetic subjects from the Chronic Renal Insufficiency Cohort (CRIC) study.
Role: Co-Investigator (PI of UTHealth Subcontract)

R01-HD073434 Au (PI) 5/1/14 - 4/30/20
NIH
Creating a Myelomeningocele Exome Variant Map
This project will use exome resequencing to find genetic variation that influences myelomeningocele in European and Hispanic Americans.
Role: Co-Investigator

R01-HL111362 Herrington (PI) 07/18/12 - 05/31/17
NIH/NHLBI
Genomic and Proteomic Architecture of Atherosclerosis
The UT-Houston laboratory will be responsible for exome resequencing for 1,100 case/controls selected from the multicenter autopsy study entitled “Pathobiological Determinants of Atherosclerosis in Youth” using next generation sequencing technologies. The overall goal is to identify functional genetic variants (both rare and common) that influence development of atherosclerotic lesions as directly measured in arterial specimens.
Role: Co-Investigator (PI of UTHealth Subcontract)

R01-HL111249 Rao (PI) 07/15/12 - 06/30/17
NIH/NHLBI
Rare Variants for Hypertension in Taiwan Chinese

This project will use exome resequencing to find genetic variation that influences blood pressure in Taiwan Chinese families.

Role: Co-Investigator (PI of UTHealth Subcontract)

R01-HL091988 Hixson (PI) 07/01/08 – 05/31/13

NIH/NHLBI

Genes of Oxidative Stress and Atherosclerotic Complications of Hypertension

This project will examine the influence of genetic variation in oxidative stress genes on coronary artery calcification.

Role: Principal Investigator

1RC2-HG005697-01 Hixson (PI) 09/30/09 – 08/31/12

NIH/NHGRI

Next-Generation Medical Resequencing of Gout Disease Genes in the ARIC Cohort

This project will use new massively parallel technologies for medical resequencing to identify genetic variants that underlie susceptibility to uric acid levels and gout.

Role: Principal Investigator

R01-HL091988 Hixson (PI) 07/01/08 – 05/31/13

NIH/NHLBI

Genes of Oxidative Stress and Atherosclerotic Complications of Hypertension

This project will examine the influence of genetic variation in oxidative stress genes on coronary artery calcification.

Role: Principal Investigator

1RC2-HG005697-01 Hixson (PI) 09/30/09 – 08/31/12

NIH/NHGRI

Next-Generation Medical Resequencing of Gout Disease Genes in the ARIC Cohort

This project will use new massively parallel technologies for medical resequencing to identify genetic variants that underlie susceptibility to uric acid levels and gout.

Role: Principal Investigator

R01-HL090682 He (PI) 09/15/08 – 07/31/12

NIH/NHLBI

Family-Based Genome-Wide Association Study for Salt-Sensitivity of Blood Pressure

This project will perform GWAS to identify genes that influence blood pressure response to dietary sodium and potassium in a feeding study of families from rural China.

Role: Co-Investigator (PI of UTHealth Subcontract)

R01-HL072810 Boerwinkle (PI) 06/1/03 – 2/28/13

NIH/NHLBI

Modeling DNA Diversity in Reverse Cholesterol Transport

This project is using GWAS and gene resequencing to characterize the genetic architecture of CVD and HDL-C levels in subjects from the NIH CARDIA Study.

Role: Co-Investigator

R01-HL072810 Boerwinkle (PI) 06/01/03 – 02/28/13

NIH/NHLBI

Modeling DNA Diversity in Reverse Cholesterol Transport

This project is using GWAS and gene resequencing to characterize the genetic architecture of CVD and HDL-C levels in subjects from the NIH CARDIA Study.

Role: Co-Investigator

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 beta-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. alpha-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.
17. Thieszen, S.L., Hixson, J.E., Nagengast, D.J., Wilson, J.E., and McManus, B.M. Lipid phenotypes, apolipoprotein genotypes and cardiovascular risk factors in nonagenarians. *Atherosclerosis* 83:137-146, 1990.
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.
19. Hixson, J.E., Vernier, D.T., and Powers, P. Detection of SstI restriction site polymorphism in human APOC3 by the polymerase chain reaction. *Nucleic Acids Res.* 19:196, 1991.
20. Hixson, J.E. and Powers, P.K. Restriction isotyping of human apolipoprotein A-IV: Rapid typing of apoA-IV isoforms and detection of a new isoform that deletes a conserved repeat. *J. Lipid Res.* 32:1529-1535, 1991.
21. Hixson, J.E. and the Pathobiological Determinants of Atherosclerosis in Youth (PDAY) Research Group. Apolipoprotein E polymorphisms affect atherosclerosis in young males. *Arteriosclerosis and Thrombosis* 11:1237-1244, 1991.
22. Blangero, J., Williams-Blangero, S., and Hixson, J.E. Assessing the effects of candidate genes on quantitative traits in primate populations. *Am. J. Primatology* 27:119-132,

- 1992.
23. Rainwater, D.L, Blangero, J., Hixson, J.E., Birnbaum, S., Mott, G.E., and VandeBerg, J.L. A DNA polymorphism for lecithin:cholesterol acyltransferase (LCAT) is associated with altered LCAT activity and HDL size distributions in baboons. *Arteriosclerosis and Thrombosis* 12:682-690, 1992.
 24. Pastorcic, M., Birnbaum, S., and Hixson, J.E. Baboon apolipoprotein C-I: cDNA and gene structure and evolution. *Genomics* 13:368-374, 1992.
 25. Hixson, J.E., McMahan, C.A., McGill, H.C., Jr., Strong, J.P., and the Pathobiological Determinants of Atherosclerosis in Youth (PDAY) Research Group. Apolipoprotein B insertion/deletion polymorphisms affect atherosclerosis in young black but not young white males. *Arteriosclerosis and Thrombosis* 12:1023-1029, 1992
 26. Kammerer, C.M., Hixson, J.E., Aivaliotis, M.J., Porter, P.A., and VandeBerg, J.L. Linkage heterogeneity between LDLR and C3 and between APOA1 and APOA4 loci in baboons. *Genomics* 14:42-48, 1992.
 27. Kammerer, C.M., Hixson, J.E., and Mott, G.E. A DNA polymorphism for lecithin: cholesterol acyltransferase (LCAT) is associated with high density lipoprotein levels in baboons. *Atherosclerosis* 98:153-163, 1993.
 28. Hixson, J.E., Driscoll, D.M., Birnbaum, S., and Britten, M.L. Baboon LCAT: cDNA sequences of two alleles, evolution, and gene expression. *Gene* 128:295-299, 1993.
 29. Hixson, J.E., Powers, P.K., and McMahan, C.A. The human apo B 3' hypervariable region: Detection of eight new alleles and comparison of allele frequencies in blacks and whites. *Hum. Genet.* 91: 475-479, 1993.
 30. Hixson, J.E., Kammerer, C.M., Mott, G.E., Britten, M. L., Birnbaum, S, Powers, P.K., and Vandenberg, J.L. Baboon apoA-IV: Identification of Lys76->Glu that distinguishes two common isoforms and detection of length polymorphisms at the carboxyl terminus. *J. Biol. Chem.* 268:15667-15673, 1993.
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 32. Pathobiological Determinants of Atherosclerosis in Youth (PDAY) Research Group. Natural history of aortic and coronary atherosclerotic lesions in youth. Findings from the PDAY study. *Arteriosclerosis and Thrombosis* 13:1291-1298, 1993.
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- lipoprotein(a) level in the baboon. *J. Biol. Chem.* 269:9060-9066, 1994.
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 37. Cole, S.A. and Hixson, J.E. Baboon lipoprotein lipase: cDNA sequence and variable tissue-specific expression of two transcripts. *Gene* 161:265-269, 1995.
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 42. Kammerer, C.M., VandeBerg, J.L., and Hixson, J.E. Apo B signal peptide length polymorphisms are associated with apo B and LDL-C levels in Mexican Americans. *Atherosclerosis* 120:37-45, 1996.
 43. Cole, S.A., Birnbaum, S., and Hixson, J.E. MspI restriction fragment length polymorphism at the cholesteryl ester transfer protein (CETP) locus in baboons. *Anim. Genet.* 27:63, 1996.
 44. Cole, S.A., Birnbaum, S., and Hixson, J.E. TaqI restriction fragment length polymorphism at the hepatic lipase (LIPC) locus in baboons. *Anim. Genet.* 27:63, 1996.
 45. Hixson, J.E., Jett, C., and Birnbaum, S. Identification of promoter sequences in the 5' untranslated region of the baboon apo (a) gene. *J. Lipid Res.*, 37:2324-2331, 1996.
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- risk factors in Mexican Americans: the San Antonio family heart study, *Circulation*, 94:2159-2170, 1996.
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 57. Cox, L.A., Jett, C., and Hixson, J.E. Molecular basis of the apolipoprotein(a) null phenotype: a splice site mutation is associated with deletion of a single exon in a null

- allele, *J. Lipid Res.*, 39:1319-1326, 1998.
58. Rainwater, D.L., Almasy, L., Blangero, J., Cole, S.A., VandeBerg, J.L., MacCluer, J.W., and Hixson, J.E. A genome search identifies major quantitative trait loci on human 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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 63. Hixson, J.E., and Blangero, J. Genomic searches for genes that influence atherosclerosis and its risk factors. In: *Atherosclerosis V, the Fifth Saratoga International Conference*. Eds. F. Numano and M.A. Gimbrone, Jr. *Ann. N.Y. Acad. Sci.* 902:1-7, 2000.
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69. Atwood, L.D., Samollow, P.B., Hixson, J.E., Stern, M.P., and MacCluer, J.W. Genome-wide linkage analysis of blood pressure in Mexican Americans. *Genetic Epidemiology* 20:373-382, 2001.
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