Curriculum Vitae

Michael C. Mahaney, Ph.D.

Professor
Department of Human Genetics
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Contact Information

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Education and Training

University of Alberta Edmonton, Canada	Posdoctoral Research Scientist	1984-87	Genetics, Medical Genetics
The Ohio State University Columbus, Ohio USA	Ph.D.	1984	Biological Anthropology Dissertation: “Development and Chronic Disease: Functional Adaptation in Cystic Fibrosis”
The Ohio State University Columbus, Ohio USA	M.A.	1979	Anthropology
The Ohio State University Columbus, Ohio USA	B.A.	1978	Physical Anthropology
Capital University Bexley, Ohio USA	ND	1972-74	History and Psychology

Work Experience

2018-Present	Professor, Department of Human Genetics, University of Texas Rio Grande Valley, School of Medicine, Brownsville, Texas, USA
2014-Present	Professor, South Texas Diabetes and Obestity Institute, University of Texas Rio Grande Valley, School of Medicine, Brownsville, Texas, USA
2014-2016	Interim Director, Physiology, University of Texas Rio Grande Valley, School of Medicine, Brownsville, Texas, USA
2015-Present	Adjoint Professor, School of Medicine, University of Texas Health Science Center San Antonio, San Antonio, Texas USA
2012-2014	Core Scientist, Southwest National Primate Research Center, Texas Biomedical Research Institute, San Antonio, Texas, USA
2000-2014	Scientist, Department of Genetics, Southwest Foundation for Biomedical Research/Texas Biomedical Research Institute (formerly Southwest Foundation for Biomedical Research), San Antonio, Texas, USA
2000-2003	Adjunct Professor, Department of Anthropology, University of Texas San Antonio, Texas USA
1996-2000	Associate Scientist, Department of Genetics, Southwest Foundation for Biomedical Research (later Texas Biomedical Research Institute), San Antonio, Texas, USA
1993-1995	Assistant Scientist, Department of Genetics, Southwest Foundation for Biomedical Research (later Texas Biomedical Research Institute), San Antonio, Texas, USA
1993-2000	Associate Graduate Faculty, Department of Human Biology and Nutritional Science, University of Guelph Canada
1991-1993	Adjunct Assistant Professor, Department of Anthropology, McMaster University, Hamilton, Ontario Canada
1987-1993	Assistant Professor, School of Human Biology, University of Guelph, Guelph, Ontario, Canada (Tenured, 1991)
1986-1987	Sessional Lecturer, Department of Genetics, University of Alberta, Edmonton, Canada

1984-1986	Postdoctoral Research Fellow, Department of Genetics, University of Alberta, Edmonton, Canada
1982	Research Intern, Chronic Disease and Environmental Unit, Division of Epidemiology, Bureau of Preventive Medicine, Ohio Department of Health, Columbus, Ohio, USA
1979-1984	Instructor, Department of Anthropology, The Ohio State University, Columbus, USA Ohio

Professional Activities

Manuscript Reviews (Abbreviated.)

Alzheimer's & Dementia: The Journal of the Alzheimer's Association; American Journal of Human Biology; Atherosclerosis; Bone; Calcified Tissue International; European Journal of Human Genetics; Frontiers Journals, including Frontiers in Cardiovascular Medicine: section Cardiovascular Genetics and Systems Medicine, Frontiers in Cardiovascular Medicine: section Cardiovascular Epidemiology and Prevention, Frontiers in Molecular Biosciences: section Metabolomics, etc.; Journal of Comparative Veterinary Medicine; PLOS-One.

Grant Application Reviews

NIH Committees		
Ad hoc	Population Sciences and Epidemiology (PSE), Member Conflict SEP	2021-22
Ad hoc	Neurological, Aging, Musculoskeletal, & Epidemiology Study Section, Member Conflict	2020
Ad hoc	Alzeimer's Disease and Its Related Dementias SEP	2019
Member	Neurological, Aging, and Musculoskeletal Epidemiology (NAME)	2014-18
Member	Cardiovascular Disease Genetics SEP (PPG)	2013-14
Member	Chronic Disease, Aging & Genetics SEP	2013
Member	Specialized Centers on Sex Differences SEP (SCOR)	2012
Chair	Population Studies and Epidemiology	2011
Member	Hypertension Genetics SEP (PPG)	2003-04, 2008-11
Member	Kidney, Nutrition, Obesity & Diabetes SEP (Member Conflict)	2005-06, 2007-09
Member	ARRA Challenge Grant 'Distinguished Editorial Panel'	2009
	Human Lipoprotein Pathophysiology PPG External Advisory Board (University of Washington)	2008
Member	Innovative Research Grants Program SEP	2002
Member	Genetics of Lipid Lowering Drugs Network SEP	2002

Member	National Heart, Lung, and Blood Institute: Family Heart Study: Subclinical Atherosclerosis Network – Observational Monitoring Board	2001-06
Ad hoc	Oral Biology & Medicine 2	1997-99
Ad hoc	Orthopedics & Musculoskeletal Biology	1998
Ad hoc	Cancer Genetics & Epidemiology SEP	1997
Ad hoc	Epidemiology & Disease Control 1/2 (Member Conflict)	1996-97
Ad hoc	Oral Biology & Medicine 1	1995-96
Other (Non-NIH) Committees		
Ad hoc	The Leaky Foundation	2022-23
Ad hoc	MD Anderson Cancer Center Research on Environmental Disease Pilot Program	2011
Ad hoc	National Health Research Board, Ireland	2009-11
Member	American Heart Association Western States Review Consortium	2004-07, 2010
Ad hoc	Comitato Telethon, Italy Italian National Biomedical Research Funding Initiative	1999

Institutional Service

Current Institution

Member	Endowed Academic Positions Review Committee, School of Medicine	2024
Member	Tenure and Promotion Committee, UTRGV	2021-24
Member	Institutional Review Board, UTRGV	2018-present
Member	Promotion, Tenure, & Appointments Committee, School of Medicine	2017-21
Vice-Chair	Admissions Committee, School of Medicine	2021-24
Chair	Admissions Committee, School of Medicine	2018-21
Member	Admissions Committee, School of Medicine	2015-Present
Member	Institutional Animal Care and Use Committee, UTRGV	2015-18
Chair	Faculty Assembly, School of Medicine	2015

Publications

Peer Reviewed Research and Review Papers

1. **Mahaney MC**, Sciulli PW. Hominid Pongid affinities: A multivariate analysis of hominoid odontometrics. Curr Anthropol. 1983; 24(3): 382-387.

2. **Mahaney MC**, Sciulli. On the classification of Homo: A reply to Marks. Curr Anthropol 1983; 25(1): 131-132.

3. Schneider KN, **Mahaney MC**, Sciulli PW. Comparative odontometrics of prehistoric Amerindians of Central and Eastern North America. Anthropologie 1984; 22(3): 217-221.

4. Sciulli PW, Schneider KN, **Mahaney MC**. Morphological variation in the permanent dentition of prehistoric Amerindians. Anthropologie 1984; 22(3): 211-216.

5. **Mahaney MC**, Sciulli PW, Schneider KN. Hominoid dental systematics: Multivariate analyses of allometrically correct odontometrics. Anthropologie 1984; 22(3): 203-210.

6. **Mahaney MC**. Meniere's disease. Evidence for genetic factors. Bull Hered Dis Prog Alberta 1985; 4(2): 7-8.

7. Sciulli PW, **Mahaney MC**. A model free comparative study of terminal late Archaic cranial variation in Ohio. Toledo Area Aboriginal Res Soc Bull 1985; 14: 1-19.

8. **Mahaney MC**, McCoy KS. Developmental delays and pulmonary disease severity in cystic fibrosis. Hum Biol. 1986, Jun;58(3):445-60.

9. **Mahaney MC**. Delayed dental development and pulmonary disease severity in children with cystic fibrosis. Arch Oral Biol. 1986;31(6):363-7.

10. Sciulli PW, **Mahaney MC**. Evidence of local biological continuity for an Ohio Hopewell Complex population. Midcontinental J Archaeol 1986; 11(2): 181-200.

11. **Mahaney MC**. Differentially delayed development in the hand-wrist skeletons of children with cystic fibrosis: Round vs. tubular bones. Am J Hum Biol 1991; 3(1): 17-24.

12. Berti PR, **Mahaney MC**. Quantifying the confidence interval of linear enamel hypoplasia chronologies. In: Recent Contributions to the Study of Enamel Developmental Defects. J. Paleopathology Monographic Publications - 2, AH Goodman & LL Capasso, editors. pp. 19-30; 1991.

13. Sciulli PW, Schneider KN, and **Mahaney MC**. Stature estimation in prehistoric Native Americans of Ohio. Am J Phys Anthropol. 1990, Nov;83(3):275-80.

14. **Mahaney MC**, Fujiwara TM, and Morgan K. Dental agenesis in the Dariusleut Hutterite Brethren: comparisons to selected Caucasoid population surveys. Am J Phys Anthropol. 1990, Jun; 82(2):165-77.

15. Sciulli PW and **Mahaney MC**. Phenotypic evolution in prehistoric Ohio Amerindians: natural selection versus random genetic drift in tooth size reduction. Hum Biol. 1991, Aug;63(4):499-511.

16. **Mahaney MC**, Leland MM, Williams-Blangero S, and Marinez YN. Cross-sectional growth standards for captive baboons: I. Organ weight by chronological age. J Med Primatol. 1993;22(7-8):400-14.

17. **Mahaney MC**, Leland MM, Williams-Blangero S, and Marinez YN. Cross-sectional growth standards for captive baboons: II. Organ weight by body weight. J Med Primatol. 1993;22(7-8): 415-27.

18. **Mahaney MC**, Williams-Blangero S, Blangero J, and Leland MM. Quantitative genetics of relative organ weight variation in captive baboons. Hum Biol. 1993, Dec;65(6):991-1003.

19. Blangero J, Williams-Blangero S, and **Mahaney MC**. Multivariate genetic analysis of apo AI concentration and HDL subfractions: evidence for major locus pleiotropy. Genet Epidemiol. 1993;10(6):617-22.

20. Comuzzie AG, Blangero J, **Mahaney MC**, Mitchell BD, Stern MP, and MacCluer JW. Genetic and environmental correlations among skinfold measures. Int J Obes Relat Metab Disord. 1994, Jun; 18(6):413-8.

21. **Mahaney MC**, Blangero J, Comuzzie AG, VandeBerg JL, Stern MP, and MacCluer JW. Plasma HDL cholesterol, triglycerides, and adiposity. A quantitative genetic test of the conjoint trait hypothesis in the San Antonio Family Heart Study. Circulation. 1995, Dec 1;92(11):3240-8.

22. **Mahaney MC**, Blangero J, Rainwater DL, Comuzzie AG, VandeBerg JL, Stern MP, et al. A major locus influencing plasma high-density lipoprotein cholesterol levels in the San Antonio Family Heart Study. Segregation and linkage analyses. Arterioscler Thromb Vasc Biol. 1995, Oct;15(10): 1730-9.

23. Comuzzie AG, Blangero J, **Mahaney MC**, Mitchell BD, Hixson JE, Samollow PB, et al. Major gene with sex-specific effects influences fat mass in Mexican Americans. Genet Epidemiol. 1995;12(5):475-88.

24. **Mahaney MC**, Jaquish CE, and Comuzzie AG. Statistical genetics of normal variation in family data for oligogenic diseases. Genet Epidemiol. 1995;12(6):783-7.

25. Berti PR, **Mahaney MC**. Conservative scoring and exclusion of the phenomenon of interest in linear enamel hypoplasia studies. Am J Hum Biol. 1995;7(3):313-320. doi: 10.1002/ajhb.1310070307. PMID: 28557035.

26. Comuzzie AG, Blangero J, **Mahaney MC**, Sharp RM, VandeBerg JL, Stern MP, and MacCluer JW. Triiodothyronine exerts a major pleiotropic effect on reverse cholesterol transport phenotypes. Arterioscler Thromb Vasc Biol. 1996, Feb;16(2):289-93.

27. Jaquish CE, **Mahaney MC**, Blangero J, Haffner SM, Stern MP, and MacCluer JW. Genetic correlations between lipoprotein phenotypes and indicators of sex hormone levels in Mexican Americans. Atherosclerosis. 1996, Apr 26;122(1):117-25.

28. Mitchell BD, Kammerer CM, **Mahaney MC**, Blangero J, Comuzzie AG, Atwood LD, et al. Genetic analysis of the IRS. Pleiotropic effects of genes influencing insulin levels on lipoprotein and obesity measures. Arterioscler Thromb Vasc Biol. 1996, Feb;16(2):281-8.

29. Comuzzie AG, Blangero J, **Mahaney MC**, Haffner SM, Mitchell BD, Stern MP, and MacCluer JW. Genetic and environmental correlations among hormone levels and measures of body fat accumulation and topography. J Clin Endocrinol Metab. 1996, Feb;81(2):597-600.

30. Blangero J, Williams-Blangero S, **Mahaney MC**, Comuzzie AG, Hixson JE, Samollow PB, Sharp RM, Stern MP, MacCluer JW. Effects of a major gene for apolipoprotein A-I concentration are thyroid hormone dependent inMexican Americans. Arterioscler Thromb Vasc Biol. 1996, Sep;16(9):1177-83.

31. Mitchell BD, Kammerer CM, Blangero J, **Mahaney MC**, Rainwater DL, Dyke B, Hixson JE, Henkel RD, Sharp RM, Comuzzie AG, VandeBerg JL, Stern MP, MacCluer JW. Genetic and environmental contributions to cardiovascular risk factors in Mexican Americans. The San Antonio Family Heart Study. Circulation. 1996, Nov 1;94(9):2159-70.

32. Hubbard GB, **Mahaney MC**, Gleiser CA, Taylor DE, and VandeBerg JL. Spontaneous pathology of the gray short-tailed opossum (Monodelphis domestica). Lab Anim Sci. 1997, Feb;47(1):19-26.

33. Rogers J, **Mahaney MC**, Beamer WG, Donahue LR, and Rosen CJ. Beyond one gene-one disease: alternative strategies for deciphering genetic determinants of osteoporosis. Calcif Tissue Int. 1997, Mar;60(3):225-8.

34. Comuzzie AG, **Mahaney MC**, Almasy L, Dyer TD, and Blangero J. Exploiting pleiotropy to map genes for oligogenic phenotypes using extended pedigree data. Genet Epidemiol. 1997;14(6): 975-80.

35. Rainwater DL, Mitchell BD, **Mahaney MC**, and Haffner SM. Genetic relationship between measures of HDL phenotypes and insulin concentrations. Arterioscler Thromb Vasc Biol. 1997, Dec;17(12):3414-9.

36. Wang XL, **Mahaney MC**, Sim AS, Wang J, Wang J, Blangero J, Almasy L, Badenhop RB, Wilcken DE. Genetic contribution of the endothelial constitutive nitric oxide synthase gene to plasma nitric oxide levels. Arterioscler Thromb Vasc Biol. 1997, Nov;17(11):3147-53.

37. Rainwater DL, Comuzzie AG, VandeBerg JL, **Mahaney MC**, and Blangero J. Serum leptin levels are independently correlated with two measures of HDL. Atherosclerosis. 1997, Jul 25;132(2): 237-43.

38. Dyke B, and **Mahaney MC**. Statistical Modeling Approaches to Genetic Analysis. ILAR J. 1997;38(2):76-82.

39. Comuzzie AG, Rainwater DL, Blangero J, **Mahaney MC**, VandeBerg JL, and MacCluer JW. Shared and unique genetic effects among seven HDL phenotypes. Arterioscler Thromb Vasc Biol. 1997, May;17(5):859-64.

40. Comuzzie AG, Hixson JE, Almasy L, Mitchell BD, **Mahaney MC**, Dyer TD, Stern MP, MacCluer JW, Blangero J. A major quantitative trait locus determining serum leptin levels and fat mass is located on human chromosome 2. Nat Genet. 1997, Mar;15(3):273-6.

41. Czerwinski SA, **Mahaney MC**, Williams JT, Almasy L, and Blangero J. Genetic analysis of personality traits and alcoholism using a mixed discrete continuous trait variance component model. Genet Epidemiol. 1999;17 Suppl 1S121-6.

42. Edwards KL, **Mahaney MC**, Motulsky AG, and Austin MA. Pleiotropic genetic effects on LDL size, plasma triglyceride, and HDL cholesterol in families. Arterioscler Thromb Vasc Biol. 1999, Oct;19(10):2456-64.

43. Katzmarzyk PT, **Mahaney MC**, Blangero J, Quek JJ, and Malina RM. Potential effects of ethnicity in genetic and environmental sources of variability in the stature, mass, and body mass index of children. Hum Biol. 1999, Dec;71(6):977-87.

44. **Mahaney MC**, Blangero J, Rainwater DL, Mott GE, Comuzzie AG, MacCluer JW, and VandeBerg JL. Pleiotropy and genotype by diet interaction in a baboon model for atherosclerosis: a multivariate quantitative genetic analysis of HDL subfractions in two dietary environments. Arterioscler Thromb Vasc Biol. 1999, Apr;19(4):1134-41.

45. Rogers J, **Mahaney MC**, Almasy L, Comuzzie AG, and Blangero J. Quantitative trait linkage mapping in anthropology. Am J Phys Anthropol. 1999;Suppl 29127-51.

46. Almasy L, Hixson JE, Rainwater DL, Cole S, Williams JT, **Mahaney MC**, et al. Human pedigree- based quantitative-trait-locus mapping: localization of two genes influencing HDL-cholesterol metabolism. Am J Hum Genet. 1999, Jun;64(6):1686-93.

47. MacCluer JW, Stern MP, Almasy L, Atwood LA, Blangero J, Comuzzie AG, Dyke B, Haffner SM, Henkel RD, Hixson JE, Kammerer CM, **Mahaney MC**, Mitchell BD, Rainwater DL, Samollow PB, Sharp RM, VandeBerg JL, Williams JT. Genetics of

atherosclerosis risk factors in Mexican Americans. Nutr Rev. 1999, May;57(5 Pt 2):S59-65.

48. Hixson JE, Almasy L, Cole S, Birnbaum S, Mitchell BD, **Mahaney MC**, et al. Normal variation in leptin levels in associated with polymorphisms in the proopiomelanocortin gene, POMC. J Clin Endocrinol Metab. 1999, Sep;84(9):3187-91.

49. **Mahaney MC**, Czerwinski SA, Adachi T, Wilcken DE, and Wang XL. Plasma levels of extracellular superoxide dismutase in an Australian population: genetic contribution to normal variation and correlations with plasma nitric oxide and apolipoprotein A-I levels. Arterioscler Thromb Vasc Biol. 2000, Mar;20(3):683-8.

50. Rogers J, **Mahaney MC**, Witte SM, Nair S, Newman D, Wedel S, et al. A genetic linkage map of the baboon (Papio hamadryas) genome based on human microsatellite polymorphisms. Genomics. 2000, Aug 1;67(3):237-47.

51. Kammerer CM, Cox LA, **Mahaney MC**, Rogers J, and Shade RE. Sodium-lithium countertransport activity is linked to chromosome 5 in baboons. Hypertension. 2001, Feb;37(2 Part 2):398-402.

52. Martin LJ, Blangero J, Rogers J, **Mahaney MC**, Hixson JE, Carey KD, et al. A quantitative trait locus influencing estrogen levels maps to a region homologous to human chromosome 20. Physiol Genomics. 2001, Mar 8;5(2):75-80.

53. Wang XL, and **Mahaney MC**. Genotype-specific effects of smoking on risk of CHD. Lancet. 2001, Jul 14;358(9276):87-8.

54. Arya R, Duggirala R, Almasy L, Rainwater DL, **Mahaney MC**, Cole S, Dyer TD, Williams K, Leach RJ, Hixson JE, MacCluer JW, O'Connell P, Stern MP, Blangero J. Linkage of high-density lipoprotein-cholesterol concentrations to a locus on chromosome 9p in Mexican Americans. Nat Genet. 2002 Jan;30(1):102-5. doi: 10.1038/ng810. Epub 2001 Dec 17. PMID: 11743583.

55. Martin LJ, Blangero J, Rogers J, **Mahaney MC**, Hixson JE, Carey KD, and Comuzzie AG. A quantitative trait locus influencing activin-to-estrogen ratio in pedigreed baboons maps to a region homologous to human chromosome 19. Hum Biol. 2001, Dec;73(6):787-800.

56. Wang XL, Rainwater DL, VandeBerg JF, Mitchell BD, and **Mahaney MC**. Genetic contributions to plasma total antioxidant activity. Arterioscler Thromb Vasc Biol. 2001, Jul;21(7):1190-5.

57. Dyer TD, Blangero J, Williams JT, Göring HH, and **Mahaney MC**. The effect of pedigree complexity on quantitative trait linkage analysis. Genet Epidemiol. 2001;21 Suppl 1S236-43.

58. Martin LJ, **Mahaney MC**, Bronikowski AM, Dee Carey K, Dyke B, and Comuzzie AG. Lifespan in captive baboons is heritable. Mech Ageing Dev. 2002, Sep;123(11):1461-7.

59. Rainwater DL, Kammerer CM, Cox LA, Rogers J, Carey KD, Dyke B, **Mahaney MC**, McGill HC Jr, VandeBerg JL. A major gene influences variation in large HDL particles and their response to diet in baboons. Atherosclerosis. 2002, Aug;163(2):241-8.

60. Rainwater DL, Kammerer CM, Carey KD, Dyke B, VandeBerg JF, Shelledy WR, Moore PH Jr, **Mahaney MC**, McGill HC Jr, VandeBerg JL. Genetic determination of HDL variation and response to diet in baboons. Atherosclerosis. 2002, Apr; 161(2):335-43.

61. Martin LJ, **Mahaney MC**, Almasy L, MacCluer JW, Blangero J, Jaquish CE, and Comuzzie AG. Leptin's sexual dimorphism results from genotype by sex interactions mediated by testosterone. Obes Res. 2002, Jan;10(1):14-21.

62. Deng HW, **Mahaney MC**, Williams JT, Li J, Conway T, Davies KM, et al. Relevance of the genes for bone mass variation to susceptibility to osteoporotic fractures and its implications to gene search for complex human diseases. Genet Epidemiol. 2002, Jan;22(1):12-25.

63. Martin LJ, Cole SA, Hixson JE, **Mahaney MC**, Czerwinski SA, Almasy L, et al. Genotype by smoking interaction for leptin levels in the San Antonio Family Heart Study. Genet Epidemiol. 2002, Feb;22(2):105-15.

64. Kammerer CM, Rainwater DL, Cox LA, Schneider JL, **Mahaney MC**, Rogers J, and VandeBerg JL. Locus controlling LDL cholesterol response to dietary cholesterol is on baboon homologue of human chromosome 6. Arterioscler Thromb Vasc Biol. 2002, Oct 1;22(10):1720-5.

65. Hlusko LJ, Weiss KM, and **Mahaney MC**. Statistical genetic comparison of two techniques for assessing molar crown size in pedigreed baboons. Am J Phys Anthropol. 2002, Feb;117(2):182-9. 54.

66. Martin LJ, **Mahaney MC**, Almasy L, Hixson JE, Cole SA, MacCluer JW, et al. A quantitative trait locus on chromosome 22 for serum leptin levels adjusted for serum testosterone. Obes Res. 2002, Jul;10(7):602-7.

67. Arya R, Duggirala R, Almasy L, Rainwater DL, **Mahaney MC**, Cole S, et al. Linkage of high- density lipoprotein-cholesterol concentrations to a locus on chromosome 9p in Mexican Americans. Nat Genet. 2002, Jan;30(1):102-5.

68. Kammerer CM, Rainwater DL, Schneider JL, Cox LA, **Mahaney MC**, Rogers J, VandeBerg JF. Two loci affect angiotensin I-converting enzyme activity in baboons. Hypertension. 2003 Mar;41(3 Pt 2):854-9. doi: 10.1161/01.HYP.0000046280.16849.BF. Epub 2002 Dec 2. PMID: 12624008.

69. Rainwater DL, Kammerer CM, **Mahaney MC**, Rogers J, Cox LA, Schneider JL, and VandeBerg JL. Localization of genes that control LDL size fractions in baboons. Atherosclerosis. 2003, May; 168(1):15-22.

70. Hlusko LJ, and **Mahaney MC**. Genetic contributions to expression of the baboon cingular remnant. Arch Oral Biol. 2003, Sep;48(9):663-72.

71. Comuzzie AG, Cole SA, Martin L, Carey KD, **Mahaney MC**, Blangero J, and VandeBerg JL. The baboon as a nonhuman primate model for the study of the genetics of obesity. Obes Res. 2003, Jan;11(1):75-80.

72. Havill LM, Snider CL, Leland MM, Hubbard GB, Theriot SR, and **Mahaney MC**. Hematology and blood biochemistry in infant baboons (Papio hamadryas). J Med Primatol. 2003, Jun;32(3):131-8. 60.

73. Havill LM, **Mahaney MC**, Czerwinski SA, Carey KD, Rice K, and Rogers J. Bone mineral density reference standards in adult baboons (Papio hamadryas) by sex and age. Bone. 2003, Dec;33(6): 877-88.

74. Kammerer CM, Rainwater DL, Schneider JL, Cox LA, **Mahaney MC**, Rogers J, and VandeBerg JF. Two loci affect angiotensin I-converting enzyme activity in baboons. Hypertension. 2003, Mar; 41(3 Pt 2):854-9.

75. **Mahaney MC**, Almasy L, Rainwater DL, VandeBerg JL, Cole SA, Hixson JE, et al. A quantitative trait locus on chromosome 16q influences variation in plasma HDL-C levels in Mexican Americans. Arterioscler Thromb Vasc Biol. 2003, Feb 1;23(2):339-45.

76. Austin MA, Edwards KL, Monks SA, Koprowicz KM, Brunzell JD, Motulsky AG, Motulsky AG, **Mahaney MC**, Hixson JE. Genome- wide scan for quantitative trait loci influencing LDL size and plasma triglyceride in familial hypertriglyceridemia. J Lipid Res. 2003, Nov;44(11):2161-8.

77. Havill LM, and **Mahaney MC**. Pleiotropic effects on cardiovascular risk factors within and between the fourth and sixth decades of life: implications for genotype x age interactions. BMC Genet. 2003;4 Suppl 1S54.

78. Samollow PB, Perez G, Kammerer CM, Finegold D, Zwartjes PW, Havill LM, Comuzzie AG, **Mahaney MC**, Göring HH, Blangero J, Foley TP, Barmada MM. Genetic and environmental influences on thyroid hormone variation in Mexican Americans. J Clin Endocrinol Metab. 2004, Jul;89(7):3276-84.

79. Havill LM, **Mahaney MC**, and Rogers J. Genotype-by-sex and environment-by-sex interactions influence variation in serum levels of bone-specific alkaline phosphatase in adult baboons (Papio hamadryas). Bone. 2004, Jul;35(1):198-203.

80. Hlusko LJ, Suwa G, Kono RT, and **Mahaney MC**. Genetics and the evolution of primate enamel thickness: a baboon model. Am J Phys Anthropol. 2004, Jul;124(3):223-33.

81. Szabo CA, Leland MM, Sztonak L, Restrepo S, Haines R, **Mahaney M***, Williams JT. Scalp EEG for the diagnosis of epilepsy and photosensitivity in the baboon. Am J Primatol 2004; 62: 95-106. *[error: "Mahaney A" in author list of published paper should be "Mahaney MC." Revised above to "M."]*

82. Tejero ME, Proffitt JM, Cole SA, Freeland-Graves JH, Cai G, Peebles KW, Cox LA, **Mahaney MC**, Rogers J, Vandeberg JL, Blangero J, Comuzzie AG. Quantitative genetic analysis of glucose transporter 4 mRNA levels in baboon adipose. Obes Res. 2004, Oct; 12(10):1652-7.

83. Wang XL, Rainwater DL, Leone A, and **Mahaney MC**. Effects of diabetes on plasma nitrotyrosine levels. Diabet Med. 2004, Jun;21(6):577-80.

84. Rainwater DL, **Mahaney MC**, VandeBerg JL, Brush G, Almasy L, Blangero J, Dyke B, Hixson JE, Cole SA, MacCluer JW. A quantitative trait locus influences coordinated variation in measures of ApoB-containing lipoproteins. Atherosclerosis. 2004, Oct;176(2):379-86.

85. Czerwinski SA, **Mahaney MC**, Rainwater DL, Vandeberg JL, MacCluer JW, Stern MP, and Blangero J. Gene by smoking interaction: evidence for effects on low-density lipoprotein size and plasma levels of triglyceride and high-density lipoprotein cholesterol. Hum Biol. 2004, Dec;76(6): 863-76.

86. Frost PA, Hubbard GB, Dammann MJ, Snider CL, Moore CM, Hodara VL, Giavedoni LD, Rohwer R, **Mahaney MC**, Butler TM, Cummins LB, McDonald TJ, Nathanielsz PW, Schlabritz-Loutsevitch NE.. White monkey syndrome in infant baboons (Papio species). J Med Primatol. 2004, Aug;33(4):197-213.

87. Wang XL, Rainwater DL, **Mahaney MC**, and Stocker R. Cosupplementation with vitamin E and coenzyme Q10 reduces circulating markers of inflammation in baboons. Am J Clin Nutr. 2004, Sep; 80(3):649-55.

88. Hlusko LJ, Maas ML, and **Mahaney MC**. Statistical genetics of molar cusp patterning in pedigreed baboons: implications for primate dental development and evolution. J Exp Zool B Mol Dev Evol. 2004, May 15;302(3):268-83.

89. Kent JW, Comuzzie AG, **Mahaney MC**, Almasy L, Rainwater DL, VandeBerg JL, et al. Intercellular adhesion molecule-1 concentration is genetically correlated with insulin resistance, obesity, and HDL concentration in Mexican Americans. Diabetes. 2004, Oct;53(10):2691-5.

90. Havill LM, Cox LA, Rogers J, and **Mahaney MC**. Cross-species replication of a serum osteocalcin quantitative trait locus on human chromosome 16q in pedigreed baboons. Calcif Tissue Int. 2005, Oct;77(4):205-11.

91. Tejero ME, Cole SA, Cai G, Peebles KW, Freeland-Graves JH, Cox LA, **Mahaney MC**, Rogers J, VandeBerg JL, Blangero J, Comuzzie AG.. Genome-wide scan of resistin mRNA expression in omental adipose tissue of baboons. Int J Obes (Lond). 2005, Apr;29(4):406-12.

92. **Mahaney MC**, Brugnara C, Lease LR, and Platt OS. Genetic influences on peripheral blood cell counts: a study in baboons. Blood. 2005, Aug 15;106(4):1210-4.

93. Almasy L, Rainwater DL, Cole S, **Mahaney MC**, Vandeberg JL, Hixson JE, et al. Joint linkage and association analysis of the hepatic lipase promoter polymorphism and lipoprotein size phenotypes. Hum Biol. 2005, Feb;77(1):17-25.

94. Havill LM, Dyer TD, Richardson DK, **Mahaney MC**, and Blangero J. The quantitative trait linkage disequilibrium test: a more powerful alternative to the quantitative transmission disequilibrium test for use in the absence of population stratification. BMC Genet. 2005;6 Suppl 1S91.

95. Rainwater DL, **Mahaney MC**, Wang XL, Rogers J, Cox LA, and Vandeberg JL. Determinants of variation in serum paraoxonase enzyme activity in baboons. J Lipid Res. 2005, Jul;46(7):1450-6.

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South Texas Alzheimer's Disease Center

The major goals of this project are to develop infrastructure and data/biosample collections that will support researchers from multiple disciplines to conduct research to diminish the burden of AD in Hispanics.

Role: Co-Investigator, *Research Education Core:* The major goal of this core is to recruit, train, mentor and support a diverse research workforce, largely women and minorities, to become leaders in multidisciplinary, team-based, ADRD research. Role: Co-Investigator (UTRGV)

1P30AG059305 Maestre (PI) 09/01/2018 – 06/30/2028 NIH/NIA

Rio Grande Valley Alzheimer's Resource Center for Minority Aging Research: Partnerships for Progress.

The overall goal of this project is to combine evidence-based mentoring and support mechanisms to develop and promote a first-rate regional and national cadre of researchers, particularly from under-represented groups, to analyze the complex mechanisms and interacting factors that contribute to Hispanics' disparate vulnerabilities to AD.

Role: Co-Leader, *Research Education Core*; Coordinator, *Pilot Studies Program*. The major objective of this project is to identify, train and mentor a diverse group of outstanding men and women through a one-year pilot studies and didactics program.

Inactive

5R24OD021324-03 Ferguson (PI) 07/01/2018 – 05/30/2021. NIH/OD

Genomic Sequencing to Establish a Macaque Genotype and Phenotype Research Resource

The major goal of the overall project is to develop a novel and efficient approach for the large-scale genomic characterization of a heavily studies captive breeding colony of nonhuman primate at the Oregon National Primate Research Center. Role: Lead Investigator on UTRGV subcontract. The goal of the UTRGV subcontract is to generate a dense, whole genome linkage map for the colony using 30X whole genome sequence data.

04385-E VandeBerg (PI) 10/09/12 - 12/21/18 DNDi

Validity of PCR and Other Biomarkers for Assessing Parasitology Cure in Chagas Disease

Under the Drugs for Neglected Disease Initiative (DNDi), Dr. Mahaney directed/oversaw the secure management, backup, and inter-institutional distribution of data generated by investigators evaluating PCR-based and serological approaches for assessing parasitemia in individuals infected with T. cruzi. Role: Co-Investigator

1 R01 HL113323-02 Blangero and Curran (PI) 04/15/12 - 03/31/17 NIH/NHLBI
Whole Genome Sequencing to Identify Causal Variants Influencing CVD Risk
The main goal is to discover novel genes influencing cardiovascular disease. Role: Co-Investigator

1 R01 AR055632-04 Mahaney (PI) 09/25/09 - 07/31/14 NIH/NIAMS
Genetics of Bone Structure and Metabolism
The goals of this project are localize, identify and prioritize candidate genes influencing covariation in measures of bone density, bone geometry, and circulating biomarkers of calcium homeostasis, bone maintenance and turnover in members of a large, non-inbred pedigree from the Jiri Region of Nepal.

1 R24OD017859-01 Cox (PI) 07/01/14 – 06/30/18
Development of a Pedigreed Baboon Genome Resource for Biomedical Research
The major goals of this study are to sequence the genomes of ~700 pedigreed baboons (from the breeding colony at the Southwest National Primate Research Center) that have been most extensively characterized for cardiovascular genetics and genomics research. Role: Co-investigator.

1 R01AR064244-01A1 Bredbenner (PI) 09/18/13 – 09/17/18 NIH/NIAMS
The Role of Bone Trait Covariation In Vertebral Fracture Resistance
The major goals of this study are to identify composite traits, derived from covariation between bone material, structural, and mechanical properties, that control fracture resistance in vertebral bodies harvested at necropsy from adult baboons from a genetically and phenotypically well-characterized pedigreed population. Role: Co-investigator.

5 P01 HL028972-30 (NCE) VandeBerg (PI) 09/05/08 - 06/30/13 NIH/NHLBI
Diet and Genotype in Primate Atherosclerosis
Project 2: Diet and Gene Effects on Atherosclerosis and CVD Risk
The major goals of this subproject are to identify genes underlying pleiotropic networks of traditional CVD risk factors and gene co-expression networks in primary vascular endothelial cells in baboons undergoing dietary challenges. Role: Project Leader.

Core B: Data Management and Computing
This Core Unit provides data and database management for the PPG. Service objectives include: sample inventory and research data management and backup, data quality control and pre-analysis processing, design and conduct of numerically/computationally complex integrative analyses, and analytical programming support. Role: Project Leader.

2 P51 RR013986-11 Trevett (PI) 05/01/14 - 04/30/16 NIH/NCRR
Southwest National Primate Research Center
Primate Resources: Baboon Colony (K.S. Rice, Component Leader)
As Co-Investigator, Dr. Mahaney monitors demographic and genetic status of the pedigreed baboon breeding colony; matches selection of potential sires and dams to the

colony's long-term research and breeding objectives; assesses kinship/inbreeding status of the colony in general; and provides advice and support for selection of genetically characterized, pedigreed baboons for individual research projects and sales. Role: Co-investigator.

- *Genomics: Molecular Genetics Services* (L.A. Cox, Component Leader)
  As component Co-I, Dr. Mahaney assists in designing genetic characterization projects to support genomics research in non-human primates; and he directly oversees data processing and management; DNA variant discovery, validation, and mapping; paternity testing, kinship assessment, and pedigree construction. Role: Co-investigator.

- *Pilot Research Program*
  The goal of the Program is to provide opportunities and support for investigators to use SNPRC nonhuman primate resources in highly focused, short-term studies with a high likelihood of enhancing the value, utility, feasibility, and attractiveness of nonhuman primates for biomedical research – particularly those proposing to generate preliminary data for applications to the NIH for support of research projects. Role: Coordinator.

- *Database Enhancement <A Texas Biomed Supplement to the SNPRC Base Grant>*
  The goal of this project is to design, develop, configure, customize, and deploy a new web-accessible database that facilitates integration of, and access to, SNPRC animal demographic, care, and use data with data generated by SNPRC research laboratories and independent, non-SNPRC investigators who use SNPRC animal research resources and biomaterials. Dr. Mahaney is responsible for the overall direction of the project, including with initial negotiations with LabKey Software to draft the contract specifying objectives design, scope of work, and milestones for the development and implementation of this database. Role: Director.

5 P01 HL045522-30 (NCE) Blangero (PI) 04/01/08 - 03/31/13 NIH/NHLBI
Genetics of Atherosclerosis in Mexican Americans
Project 2: Lipoprotein-Related CVD Risk Factors: QTL Identification
The major goal of this subproject is to identify and prioritize candidate genes underlying previously detected QTLs influencing variation in lipoprotein metabolism and vascular inflammation in Mexican American families in the San Antonio Family Heart Study. Role: Project Leader.

National Institutes of Health-NCRR: P51 RR013986
"Southwest National Primate Research Center"
"Genetics Resource Component: Primate Genomics Database"
A.J. Infante (PI); J.L. VandeBerg (Director); M.C. Mahaney, Project Leader
M.C. Mahaney (Component Leader)
05/01/04 - 04/30/09

National Institutes of Health-NCRR: P51 RR013986-S
“Enhancement & Integration of NHP Primate Databases at SNPRC”
M.C. Mahaney, Component Director

National Institutes of Health-NHLBI: P01 HL028972
“Diet and Genotype in Primate Atherosclerosis”
Core B: Data Management and Computing
J.L. VandeBerg (PI); M.C. Mahaney (Core Unit Leader)
01/05/2003 - 04/30/2008

National Institutes of Health-NHLBI: P01 HL28972
“Diet and Genotype in Primate Atherosclerosis”
Project 2: " Project 2: Lipoprotein-Related CVD Risk Factors: QTL Identification "
J.L. VandeBerg (PI), M.C. Mahaney (Project Leader)
04/01/2008 - 03/31/2013

National Institutes of Health-NIAMS: R01 AR050066
"Genetics of Bone Structural Geometry in Framingham Cohorts"
D. Karasik (PI), MC Mahaney (RI on SFBR subcontract)
09/01/03 - 08/31/07

NIH-NHLBI: Competitive Renewal of P01 HL45522
“Genetics of Atherosclerosis in Mexican Americans"
Project 2: “Genetics of Oxidative Stress and Inflammation”
M.C. Mahaney (Project Leader)
01/06/2002 - 05/31/2007

National Institutes of Health-NIDCR R21 DE016408
“Genetic Architecture of the Baboon Craniofacial Complex”
R.J. Sherwood (PI), M.C. Mahaney (RI, on SFBR subcontract)
(SFBR subcontract); 2-Year Model Development Grant 08/29/05 - 05/31/07

NIH-NHLBI: R01-068922
"Genetic Modifiers of Severity in Sickle Cell Anemia" O. Platt (PI)
M.C. Mahaney (RI on SFBR subcontract)
09/30/2001 - 07/31/2006

Constella Health Sciences (Formerly Constella Group, Inc.)
“NHLBI-GENELink Consortium,” Subcontract No. GENELink_32831_0006
M.C. Mahaney (PI on SFBR Subcontract)
Collaborative Research Contract 10/15/04 – 04/30/06

National Science Foundation
"Genetics of Dental Morphological Variation in Baboons"
L.J. Hlusko (PI), M.C. Mahaney (RI on SFBR subcontract)
01/03/2002 - 02/28/2005

National Institutes of Health-NHLBI (Hemostasis Branch): R01 HL54141
"Statistical Genetics of PDGF-related Phenotypes"
M.C. Mahaney (PI)
01/07/1996 - 12/30/2001

National Institutes of Health-NHLBI: R01 HL49513
“Genetic Epidemiology of Hypertriglyceridemia” M.A. Austin (PI)
“Genotyping, genotype data processing and management, and genome mapping”
M.C. Mahaney (RI on SFBR subcontract)
01/08/1997 -07/30/07/2000

Sequana Therapeutics, Inc.
“Genetics of Bone Mineral Density Phenotypes in a Baboon Model for Osteoporosis”
Subproject: Quantitative Genetics, Linkage Mapping and Quantitative Trait Linkage Analysis” J. Rogers (PI)
M.C. Mahaney (RI, statistical genetic analysis subproject)
Investigator Directed Research Contract
10/15/1996 - 10/14/1998

Sequana Therapeutics, Inc.
“Genetics of Bone Mineral Density Phenotypes in a Baboon Model for Osteoporosis”
SubProject: “Quantitative Genetics and Complex Segregation Analysis”
J. Rogers (PI), M.C. Mahaney, RI for statistical genetic analyses subproject)
Investigator Directed Research Contract
10/15/1993 - 10/14/1996

San Antonio Area Foundation
"Genetics of Platelet-Derived Growth Factor in Hispanic Americans."
M.C. Mahaney (PI)
One-year Research Grant-in-aid
01/07/1994 - 06/30/1995

Southwest Foundation Forum
"Genetics of Quantitative Variation in Serum Platelet-derived Growth Factor Concentration in the Baboon Model for Atherosclerosis."
M.C. Mahaney (PI)
One-year grant-in-aid of pilot research
01/07/1994 - 06/30/1995

Southwest Foundation Forum
"Statistical Genetics of IGF-1 Variation in the San Antonio Family Heart Study"
M.C. Mahaney (PI)
One-year grant-in-aid of pilot research
01/07/1996 - 06/30/1997

National Institutes of Health-NHLBI: P01 HL045522
“Genetics of Atherosclerosis in Mexican Americans”
Project 1: "Pedigree Analysis of Lipoprotein Phenotypes"
J.W. MacCluer (PI), M.C. Mahaney (Co-investigator)
01/09/1991 - 08/30/1996

National Institutes of Health-NHLBI: P01 HL28972
“Diet and Genotype in Primate Atherosclerosis”
Project 1: "Pedigree Analysis of Lipoprotein Phenotypes"
J.L. VandeBerg (PI), M.C. Mahaney (Co-investigator)
01/01/1993 - 12/31/1997

College of Biological Science/Natural Science and Engineering Research Council, University of Guelph/Ottawa, Canada
“Organ Weight Variation & Multilocus Heterozygosity in Captive Baboons”
M.C. Mahaney (PI)
Collaborative research grant-in-aid; 01/05/1991 - 30/07/1991

University of Guelph Research Enhancement Fund, Guelph, Canada 341-91
"Computer Modelling of Dental Morphogenetic Gradients"
M.C. Mahaney (PI)
Two-year research grant-in-aid
11/1988 - 11/1990

Social Sciences and Humanities Research Council/University of Guelph Research Board, Ottawa/Guelph, Canada
M.C. Mahaney (PI)
Conference travel grant; 1990

University of Guelph Research Board, Guelph, Canada 873-30
"Dental Evidence for Disturbed Developmental Homeostasis in a Human Genetic Isolate"
M.C. Mahaney (PI)
One-year research grant-in-aid
11/1987 - 10/1988

National Institutes of Health, Bethesda, Maryland
“IVth International Congress of Auxology, Junior Investigator Award”
M.C. Mahaney (PI)
06/1985

The Children's Hospital Research Foundation, Columbus, Ohio
"Functional Adaptation in Cystic Fibrosis"
M.C. Mahaney (PI)
Research grant-in-aid
01/1984 - 07/1984

College of Social and Behavioral Sciences, The Ohio State University, Columbus, Ohio
“Development and Chronic Disease”
M.C. Mahaney (PI)
Research grant-in-aid; 07/1983 - 07/1984