

## Michael C. Mahaney, Ph.D.

Professor  
Department of Human Genetics  
South Texas Diabetes and Obesity Institute  
University of Texas Rio Grande Valley  
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### Education & Training

**University of Alberta**     **Postdoctoral**  
Edmonton, Alberta Canada     **Fellowship**

**Genetics**  
Emphasis: genetic epidemiology and  
medical genetics  
Supervisor: K. Morgan, Ph.D.

**The Ohio State University**     **Ph.D.**  
Columbus, Ohio USA

**Biological anthropology**  
Emphasis: population genetics;  
developmental genetics; physiology, growth  
& development.  
Dissertation: "Development and Chronic  
Disease: Functional Adaptation in Cystic  
Fibrosis"  
Advisors: P.W. Sciulli, Ph.D. & K.S. McCoy,  
M.D.

**The Ohio State University**     **M.A.**  
Columbus, Ohio USA

**Anthropology**

**The Ohio State University**     **B.A.**  
Columbus, Ohio USA

**Anthropology, Genetics, and Zoology**  
(3 majors)

## Research Focus

### Genetic Epidemiology

Normal and pathological variation in complex phenotypes related to health and disease

<u>General</u>	<u>Specific Examples</u>
Atherosclerosis and comorbidities	<ul style="list-style-type: none"><li>• Metabolism and transport of lipoproteins and lipids</li><li>• Oxidative stress and inflammation</li><li>• Atherogenesis and arterial calcification</li><li>• Arterial compliance</li></ul>
Age-related changes/diseases in bone (osteoporosis, osteoarthritis)	<ul style="list-style-type: none"><li>• Bone mineral density</li><li>• Bone quality (e.g., strength, elasticity, and stiffness)</li><li>• Biomarkers of bone formation and turnover, and calcium metabolism</li></ul>
Craniofacial and dental variation and development	<ul style="list-style-type: none"><li>• cranial/cephalometrics</li><li>• odontometrics</li><li>• dental morphology</li></ul>

## Publications

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. 6.
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 A1 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. 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.
26. 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.
27. 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.
28. 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.
29. 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 in Mexican Americans. *Arterioscler Thromb Vasc Biol.* 1996, Sep;16(9):1177-83.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.

35. 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.
36. 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.
37. Dyke B, and **Mahaney MC**. Statistical Modeling Approaches to Genetic Analysis. *ILAR J.* 1997;38(2):76-82.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. **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.
44. 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.
45. 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.
46. 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.
47. Hixson JE, Almasy L, Cole S, Birnbaum S, Mitchell BD, **Mahaney MC**, et al. Normal variation in leptin levels is associated with polymorphisms in the proopiomelanocortin gene, POMC. *J Clin Endocrinol Metab.* 1999, Sep;84(9):3187-91.

48. **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.
49. 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.
50. 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.
51. 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.
52. Wang XL, and **Mahaney MC**. Genotype-specific effects of smoking on risk of CHD. *Lancet.* 2001, Jul 14;358(9276):87-8.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. 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.
59. 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.
60. 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.

61. 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.
62. 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.
63. 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.
64. 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.
65. 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.
66. 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.
67. Hlusko LJ, and **Mahaney MC**. Genetic contributions to expression of the baboon cingular remnant. *Arch Oral Biol.* 2003, Sep;48(9):663-72.
68. 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.
69. 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.
70. 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.
71. 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.
72. **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.
73. 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.
74. 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.
  75. 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.
  76. 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.
  77. 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.
  78. 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.
  79. 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.
  80. Wang XL, Rainwater DL, Leone A, and **Mahaney MC**. Effects of diabetes on plasma nitrotyrosine levels. *Diabet Med.* 2004, Jun;21(6):577-80.
  81. 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.
  82. 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.
  83. 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.
  84. 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.
  85. 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.

86. 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.
87. 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.
88. 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.
89. **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.
90. 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.
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92. 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.
93. Curran JE, Jowett JB, Elliott KS, Gao Y, Gluschenko K, Wang J, Abel Azim DM, Cai G, **Mahaney MC**, Comuzzie AG, Dyer TD, Walder KR, Zimmet P, MacCluer JW, Collier GR, Kissebah AH, Blangero J. Genetic variation in selenoprotein S influences inflammatory response. *Nat Genet.* 2005, Nov;37(11):1234-41.
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95. Havill LM, **Mahaney MC**, Cox LA, Morin PA, Joslyn G, and Rogers J. A quantitative trait locus for normal variation in forearm bone mineral density in pedigreed baboons maps to the ortholog of human chromosome 11q. *J Clin Endocrinol Metab.* 2005, Jun;90(6):3638-45.
96. Warren DM, Dyer TD, Peterson CP, **Mahaney MC**, Blangero J, and Almasy L. A comparison of univariate, bivariate, and trivariate whole-genome linkage screens of genetically correlated electrophysiological endophenotypes. *BMC Genet.* 2005;6 Suppl 1S117.

97. Kent JW, Lease LR, **Mahaney MC**, Dyer TD, Almasy L, and Blangero J. X chromosome effects and their interactions with mitochondrial effects. *BMC Genet.* 2005;6 Suppl 1S157.
98. Havill LM, Rogers J, Cox LA, and **Mahaney MC**. QTL with pleiotropic effects on serum levels of bone-specific alkaline phosphatase and osteocalcin maps to the baboon ortholog of human chromosome 6p23-21.3. *J Bone Miner Res.* 2006, Dec;21(12):1888-96.
99. Winnier DA, Rainwater DL, Cole SA, Dyer TD, Blangero J, Maccluer JW, and **Mahaney MC**. Multiple QTLs influence variation in paraoxonase 1 activity in Mexican Americans. *Hum Biol.* 2006, Jun;78(3):341-52.
100. Hlusko LJ, Lease LR, and **Mahaney MC**. Evolution of genetically correlated traits: tooth size and body size in baboons. *Am J Phys Anthropol.* 2006, Nov;131(3):420-7.
101. Cox LA, **Mahaney MC**, Vandeberg JL, and Rogers J. A second-generation genetic linkage map of the baboon (*Papio hamadryas*) genome. *Genomics.* 2006, Sep;88(3):274-81.
102. Havill LM, Hale LG, Newman DE, Witte SM, and **Mahaney MC**. Bone ALP and OC reference standards in adult baboons (*Papio hamadryas*) by sex and age. *J Med Primatol.* 2006, Apr;35(2): 97-105.
103. Karasik D, Dupuis J, Cupples LA, Beck TJ, **Mahaney MC**, Havill LM, et al. Bivariate linkage study of proximal hip geometry and body size indices: the Framingham study. *Calcif Tissue Int.* 2007, Sep;81(3):162-73.
104. Winnier DA, Rainwater DL, Cole SA, Williams JT, Dyer TD, Blangero J, MacCluer JW, **Mahaney MC**. Sex-specific QTL effects on variation in paraoxonase 1 (PON1) activity in Mexican Americans. *Genet Epidemiol.* 2007, Jan;31(1):66-74.
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