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CURRICULUM VITAE

Varghese George

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EDUCATION:

Ph.D. (Statistics)	University of Missouri, Columbia, MO	1981
M.S. (Statistics)	University of Missouri, Columbia, MO	1977
B.S. (Mathematics)	SMS University, Springfield, MO	1975
B.Sc. (Physics)	Kerala University, India	1973

PROFESSIONAL EXPERIENCE:

2001 – present Professor & Director of Graduate Program, Department of Biostatistics
Senior Scientist, Department of Medicine
University of Alabama at Birmingham, Birmingham, AL

Co-Director, UAB Statistical Genetics Post-Doctoral Training Program (Funded by NHLBI)
Co-Director, UAB Annual Short Course in Statistical Genetics (Funded by NIDDK)

1994 - 2001 Associate Professor, Division of Biostatistics, Division of Epidemiology
Medical College of Wisconsin, Milwaukee, WI

Adjunct Associate Professor, Dept. of Mathematical Sciences
University of Wisconsin, Milwaukee, WI

1989 - 1994 Associate Professor (tenured in 92), Dept. of Biometry & Genetics
Louisiana State University Medical Center, New Orleans, LA

1988 - 1989 Assistant Professor, Dept. of Biometry & Genetics
Louisiana State University Medical Center, New Orleans, LA

1985 - 1988 Post-Doctoral Fellow (under Prof. Robert Elston), Dept. of Biometry & Genetics
Louisiana State University Medical Center, New Orleans, LA

1981 - 1985 Assistant Professor, Dept. of Computer Information Systems
Southwest Missouri State University, Springfield, MO

AWARDS AND HONORS:

1988 FIRST Award, National Institute of General Medical Sciences, NIH
1981 Outstanding Achievement Award, Graduate Students Association, Uni. of Missouri
1980 Best Student Award, Dept. of Statistics, University of Missouri

GRANTS (Pending and Ongoing):

Association and Linkage Mapping of Complex Diseases (Pending)

PI: Varghese George, PhD
Period & %: 04/01/04 – 03/31/08 35%

DNA Pooling Issues: An Application to Obesity (Pending)

PI: Hemant Tiwari, PhD
Period & %: 04/01/04 – 03/31/08 15%

Frontiers in Statistical Genetics for NIAMS Researchers (Pending)

PI: Varghese George, PhD
Period & %: 03/01/04 – 02/28/09 10%

Senescence and Immune Heterogeneity in Influenza: Program Project (Pending)

PI: Harry Schroeder, MD, PhD
Period and %: 04/01/04 – 03/31/08 10%

Genetic Influence on RA Severity and Treatment Response (Pending)

PI: S. Louis Bridges, MD, PhD
Period & %: 12/01/03 – 11/30/08 20%

Coronary Artery Risk Development in Young Adults Study: Coordinating Center (Pending)

PI: O. Dale Williams, Ph.D.
Period & %: 12/01/03 – 11/30/08 10%

Bayesian Methods for Mapping Complex Epistatic Genes (Pending)

PI: Nengjun Yi, PhD
Period & %: 12/01/03 – 11/30/08 10%

UAB Statistical Genetics Post-Doctoral Training program

PI: David Allison, Ph.D.
Period & %: 04/01/03 – 3/31/08 0%

Design and Analysis of Microarray Gene Expression Studies in Plants

PI: David Allison, PhD
Period & current %: 10/01/02 – 08/31/06 10%

Program Project in the Genetics of SLE: Gen Epi & Biostatistics Core

PI: David Allison, PhD
Period & current %: 09/24/02 – 08/31/07 15%

Multidisciplinary Clinical Research Center: Methodology Core

PI: Catarina Kiefe, PhD, MD
Period & current %: 03/15/02 - 12/31/06 16%

Positional Gene Identification of Complex Traits

PI: Christopher Amos, Ph.D.
Period & current %: 09/01/01 – 08/31/06 10%

Statistical Genetics for Obesity and Nutrition Researchers

PI: David Allison, Ph.D.
Period & current %: 09/01/01 – 06/30/05 5%

Genetic Factors in the Epidemiology of HIV-1 Infection

PI: Richard Kaslow, MD
Period & Current % 09/01/97 – 04/30/06 5%

TEACHING:

Graduate teaching in Biostatistics includes Statistical Models and Methods, Nonparametric Statistics, Clinical Trials, Probability, Statistical Inference, Likelihood Principle, Applied Regression, Longitudinal Data Analysis, Statistical Genetics, and Advanced Theory of Inference. Other teaching includes Biostatistics for medical students and MS students in Epidemiology, and Business Statistics.

PROFESSIONAL MEMBERSHIPS:

American Society of Human Genetics
 American Statistical Association
 International Biometric Society
 International Genetic Epidemiology Society

COLLEGE/UNIVERSITY WIDE COMMITTEES:

Biostatistics Graduate Program Director, UAB
 Research Affairs Committee, MCW
 Graduate School Council Member, MCW
 Biostatistics Graduate Program Director, MCW
 Biostatistics Recruitment Director, MCW
 Biostatistics Consulting Center Director, MCW
 Biostatistics Seminar Series Chair, MCW
 Epidemiology Graduate Program Member, MCW
 Graduate School Assessment Committee, MCW
 Biostatistics Doctoral Program Development Committee Chair, MCW
 Graduate School Advisory Council Member, LSUMC
 Graduate School Curriculum Committee, LSUMC
 Biometry & Genetics Admissions Committee, LSUMC
 Biometry & Genetics Curriculum Development Committee, LSUMC
 Biometry Seminar Series Chair, LSUMC
 International Students Scholarship and Advisory Committee, SMSU

JOURNAL REFEREEING:

American Journal of Clinical Nutrition, American Journal of Human Genetics, American Journal of Medical Genetics, American Journal of Physiology, American Journal of Psychiatry, American Journal of Public Health, American Statistician, Biometrical Journal, Biometrics, Blood Pressure Monitoring, Communications in Statistics, Genetic Epidemiology, International Journal of Obesity, Journal of the American Statistical Association, Statistics in Medicine

DOCTORAL STUDENTS:

Todd Nick, Faculty, Uni. of Mississippi Med. Center, Jackson
 Aditi Shahane, Statistician, Merck Research Lab., Rahway, NJ

MASTERS STUDENTS:

Anissa Irwin, University of North Carolina, Chapel Hill
 Geraldine Brown, Faculty, LSU Med. Center, New Orleans
 Huaijian Tang, Statistical Consultant, Dallas

OTHER SCHOLARLY ACTIVITIES:

NHLBI's Program Project Grant Review Committee	2003
NHLBI's Summer Institute for Training in Biostatistics Review Committee	2003
NIH/NIAID Special Emphasis Panel Review Committee	2002
Organizer of the Statistical Genetics Interest Group at MCW	1999 - 2001
Milwaukee Chapter of the ASA Exec. Comm.	1995 - 1998
S.A.G.E. (Statistical Analysis for Genetic Epidemiology) Exec. Comm. Member	1987 - 1994
Organizer and Chair of various Invited Sessions at the ASA and Biometric Society Meetings	

PUBLICATIONS:

Page, GP, **George, V**, Go RC, Page PZ and Allison DB: “Are we there yet?”: Deciding when one has demonstrated specific genetic causation in complex diseases and quantitative traits. *American Journal of Human Genetics*, In press.

St-Pierre DH, **George V**, Rabase-Lhoret R and Poehlman ET: Genetic variation in response to overfeeding and underfeeding in humans. *Nutrition*, In Press.

Yi N, Xu S, **George V** and Allison DB (2003): Mapping Multiple Quantitative Trait Loci for Ordinal Traits. *Behavior Genetics*, In Press.

Yi N, **George V** and Allison DB (2003): Stochastic Search Variable Selection for Identifying Multiple Quantitative Trait Loci. *Genetics*, 164: 1129.

Shidham V, Chang C, Shidham G, Ghazala F, Lindholm P, Kampalath B, **George V** and Komorowski R (2003): Colon Biopsies for evaluation of Acute Graft-Versus-Host Disease (A-GVHD) in allogeneic bone marrow transplant patients. *BMC Gastroenterology* 3:5.

Guse CE, Marbella AM, **George V** and Layde PM (2002): Radium in Wisconsin drinking water – An analysis of osteosarcoma risk. *Archives of Environmental Health* 57:294.

Hajjar IM, **George V**, Sasse EA and Kochar MS (2002): A randomized double-blind controlled trial of vitamin C in the management of mild hypertension and lipids. *American Journal of Therapeutics* 9:289.

George V and Laud P (2002): A Bayesian approach to the transmission/disequilibrium test for binary traits. *Genetic Epidemiology* 22:41.

Levin DS, Han DP, Dev S, Wirostko WJ, Mieler WF, Connor TB, George V and Eastwood D (2002): Subtenon's depot corticosteroid injections in patients with a history of corticosteroid-induced intraocular pressure elevation. *American Journal of Ophthalmology* 133:196.

Page GP, Wilcox MA, Occhiuto J, Adak S, Neuberger D, Bajorunaite R and **George V** (2001): Comparison of the QTDT analysis for IgE in the CSGA data sets. *Genetic Epidemiology*, 21:S308.

Jedrey CM, Chen C, Moser KL, Wedig GC, **George V** and Tiwari HK (2001): Transmission/disequilibrium test analysis of total serum IgE levels in the Hutterite and collaborative study on the Genetics of Asthma data sets. *Genetic Epidemiology*, 21:S292.

Shidham VB, Acker S, Kampalath B, Chang C, **George V** and Komorowski R (2001): Evaluation of micrometastases in sentinel lymph nodes of cutaneous melanoma: Higher diagnostic accuracy with Melan-A and MART-1 compared to S-100 protein and HMB-45. *American Journal of Surgical Pathology* 25:1039.

Hajjar IM, Grim CE, **George V** and Kotchen TA (2001): Impact of diet on blood pressure and age related changes of blood Pressure in the US population: Analysis of the NHANES-III. *Archives of Internal Medicine*, 161:589.

Meurer JR, **George V**, Subichin SJ, Malloy M and Gehring L (2000): Risk factors for pediatric asthma emergency visits. *Journal of Asthma* 37: 653.

Atlee LA, Dhamee MS, Olund TL and **George V** (2000): The use of esmolol, nicardipine, or their combination to blunt hemodynamic changes after laryngoscopy and tracheal intubation. *Anesthesia and Analgesia*, 90:280.

- Shidham V, Gupta D, Galindo LM, Haber M, Grotkowski C, Edmonds P, Subichin SJ, **George V** and England J (2000): Intraoperative scrape cytology: Comparison with frozen section using receiver operating characteristic (ROC) curve. *Diagnostic Cytopathology*, 23: 134.
- Kotchen TA, Kotchen JM, Grim CE, **George V**, Kaldunski ML, Cowley AW, Hamet P and Chelius TH (2000): Genetic determinants of hypertension – Identification of candidate phenotypes. *Hypertension* 36:7.
- Meurer J, **George V**, Subichin S, Yauck J and Layde P (2000): Asthma Severity among children hospitalized in 1990 and 1995. *Archives of Pediatrics & Adolescent Medicine* 154: 143.
- George V**, Tiwari HK, Shu Y, Zhu X and Elston RC (1999): Linkage and association analyses of alcoholism using a regression-based transmission/disequilibrium test. *Genetic Epidemiol.*17: S157.
- Tiwari HK, Zhu X, Elston RC, Shu Y and **George V** (1999): Association and linkage analysis of ICD-10 diagnosis of alcoholism. *Genetic Epidemiology* 17: S347.
- Shidham VB, Lindholm PF, Kajdacsy-Balla A, Basir Z, **George V** and Garcia FU (1999): Prostate-specific expression and lipochrome pigment granules in the differential diagnosis of prostatic adenocarcinoma versus seminal vesicle-ejaculatory duct epithelium. *Archives of Pathology and Laboratory Medicine* 123: 1097.
- Hariharan SH, Adams MB, Brennan DC, Davis CL, First MR, Johnson CP, Ouseph R, Peddi RV, Pelz CJ, Roza AM, Vincenti F and **George V** (1999): Recurrent and de nova glomerular disease after renal transplantation. *Transplantation* 68: 635.
- George V**, Tiwari HK, Zhu X and Elston RC (1999): A test of transmission/disequilibrium for quantitative traits in pedigree data using multiple regression. *American Journal of Human Genetics*, 65:236.
- Meurer JR, McKenzie S, Mischler E, Subichin S, Malloy M, and **George V** (1999): Awesome asthma school days: Educating children, inspiring a community. *Jour. of School Health* 69:63.
- Meurer JR, Kuhn EM, **George V**, Yauck JS and Layde PM (1998): Charges of childhood asthma by hospital characteristics. *Pediatrics* 102(6):1.
- George V**, Johnson WD, Shahane A and Nick TG (1997): Testing for treatment effect in the presence of regression toward the mean. *Biometrics* 53:49.
- Perlowitz TJ, Haughton VM, Riley LH, Nguyen-Minh C and **George V** (1997): Effect of molecular weight on the diffusion of contrast media into cartilage. *Spine* 22:2707.
- Shekhawat P, **George V** and Sasidharan P (1996): Randomized multicenter trial comparing synchronized and conventional intermittent mandatory ventilation in neonates - Letter to the Editor. *Journal of Pediatrics* 129:948.
- Shahane A, **George V** and Johnson WD (1995): Effect of bivariate regression toward the mean in uncontrolled clinical trials. *Communications in Statistics - Theory and Methods* 24:2165.
- Nick TG, **George V**, Elston RC and Wilson AF (1995): Statistical validity for testing associations between genetic markers and quantitative traits in family data. *Genetic Epidemiology* 12:145.
- Phornphatkul C, Pongprot Y, Suskind R, **George V** and Fuchs GJ (1994): Cardiac functions in malnourished children. *Clinical Pediatrics* 33:147.
- Heinrich SD, Gallagher D, Warriar R, Phelan K, **George V** and McEwen GD (1994): The prognostic significance of the skeletal manifestations of acute lymphoblastic leukemia of childhood. *Journal of Pediatric Orthopedics* 14:105.

Heiba IM, DeMeester CA, Xia Y, Diep A, **George V**, Amos CI, Srinivasan SR, Berenson GS, Elston RC and Lusia AJ (1993): Genetic contributions to quantitative lipoprotein traits associated with coronary artery disease - Bogalusa Heart Study. *American Journal of Med. Genet.* 47:875.

George V and Elston RC (1993): Confidence limits based on the first occurrence of an event. *Statistics in Medicine* 12:685.

George V and Johnson WD (1992): Effect of regression to the mean in multivariate distributions. *Communications in Statistics - Theory and Methods* 21:333.

Johnson WD, **George V**, Shahane A and Fuchs GJ (1992): Fitting growth curve models to longitudinal data with missing observations. *Human Biology* 64:243.

Elston RC, **George V** and Severtson F (1992): The Elston-Stewart algorithm for continuous genotypes and environmental factors. *Human Heredity* 42:16.

Shahane A, **George V** and Johnson WD (1992) Effect of regression to the mean under different types of bivariate truncation. *ASA Proceedings of the Biopharmaceutical section* 158.

George V and Elston RC (1991): Ascertainment - An overview of the classical segregation analysis model for independent sibships. *Biometrical Journal* 33:741.

Johnson WD and **George V** (1991): Effect of regression to the mean in the presence of with-in subject variability. *Statistics in Medicine* 10:1295.

Baliga R, **George V**, Ray PE and Holiday MA (1991): Effects of reduced renal function and dietary protein on muscle protein synthesis. *Kidney International* 39:831.

George V and Elston RC (1989): "Biostatistical Methods for the Familial Study of Cancer". in *Genetic Epidemiology of Cancer*, edited by Lynch, HT and Hirayama, T, CRC Press Inc, Boca Raton, Florida. Chapter 2, pp 23-34.

Elston RC and **George V** (1989): Age of onset, age at examination and other covariates in the analysis of family data. *Genetic Epidemiology* 6:217.

George V and Elston RC (1988): Generalized modulus power transformations. *Communications in Statistics - Theory and Methods* 17:2933.

George V and Elston RC (1988): A note on estimation using self-contained subsets. *Biometrics* 44:249.

George V and Katti SK (1988): A non-Bayesian approach to estimation using tested priors. *Communications in Statistics - Theory and Methods* 17:1629.

George V and Elston RC (1987): Testing the association between polymorphic markers and quantitative traits in pedigrees. *Genetic Epidemiology* 4:193.

George V, Elston RC, Amos CI, Ward LJ and Berenson GS (1987): Association between polymorphic blood markers and quantitative traits in a large pedigree. *Genetic Epidemiol.* 4:267.

George V and Katti SK (1983): A semi-Bayesian approach to estimation using method of tested priors. *ASA Proc. of the Business and Economics Section* 682.

MANUSCRIPTS SUBMITTED OR IN PREPARATION:

George V, Chen C and Tiwari HK: A Regression-based Haplotype Transmission/Disequilibrium Test for Quantitative Traits in Pedigree Data.

Meurer JR, Conway AE, Brewer CB, Fleischfresser S, Peters D and **George V**: Voluntary progress toward universal newborn hearing screening.

Tiwari HK, Chen C and **George V**: A regression-based TDT for mapping quantitative trait loci with multiple alleles.

George V and Elston RC: Confidence limits for predictive values of diagnostic tests and devices.

Tiwari HK, **George V** and Elston RC: A two-stage test of association and linkage for quantitative traits in pedigree data.

Tiwari HK, **George V** and Schork NJ: Power and sample size consideration for detecting epistasis.

Tiwari HK, **George V** and Schork NJ: Variance-components analysis of candidate genes for quantitative traits from randomly ascertained families – efficiency and modeling considerations.

SELECTED ABSTRACTS, ETC.:

George V, Shete S and Laud P (2003): A model-based Bayesian transmission disequilibrium test for linkage. *Joint Statistical Meetings Abstracts*, page 5.

Holt JK, Tiwari H, **George V**, Beasley TM, Allison DB, Amos CI. (2003): A joint test of transmission disequilibrium for quantitative trait loci. *Joint Statistical Meetings Abstracts*, page 138.

Laud P and **George V** (2002): A Bayesian approach to transmission/disequilibrium test. *Joint Statistical Meetings Abstracts*, page 5.

Grim CE and **George V** (2001): Is my patient's blood pressure reading biased and has it changed significantly? *American Journal of Hypertension* 14:4 (Supplement 1): A52.

Meurer JR, Lewis DA, Pomeranz AJ and **George V** (2001): Assessing continuity clinic improvements using surveys of residents. *Pediatric Academic Society Meeting*, Baltimore.

Meurer JR, Conway AE, Brewer CB, Fleischfresser S and **George V** (2001): Voluntary progress toward universal newborn hearing screening. *Pediatric Academic Society Meeting*, Baltimore.

George V and Bajorunaite R (2000): Linkage assessment of total serum IgE levels and markers on chromosome 5, using a regression-based TDT. *Genetic Analysis Workshop 12*, 1: 131.

Tiwari HK, Chen C, Moser K and **George V** (2000): TDT analysis of asthma associated quantitative trait phenotype total serum IgE levels in the CSGA data set. *Genetic Analysis Workshop 12*, 1: 306.

George V and Laud PW (2000): A Bayesian approach to the transmission test for linkage disequilibrium. *Genetic Epidemiology* 19:249.

George V, Tiwari HK and Elston RC (2000): Evaluating the power and validity of a two-stage TDT for quantitative traits in pedigree data. *Genetic Epidemiology* 19:249.

Guse CE, Marbella AM, **George V** and Layde PM (2000): Radium in drinking water: An analysis of osteosarcoma risk. *DFCM Research Forum*.

Bernstein SR, Malloy MM, **George V**, Subichin S, Green MJ, Willis E and Kliegman R (2000): Evaluation of a parent mentoring project for children with special healthcare needs. *Pediatric Academic Societies & American Academy of Pediatrics Joint Meetings*.

Kotchen JM, Grim CE, **George V**, Kaldunski ML, Cowley AW, Hamet P, Chelius TH and Kotchen TA (2000): Candidate hypertension-related phenotypes. *American Society of Hypertension* 15th Scientific Meeting.

Meurer JR, Lewis DA, Pomeranz AJ, **George V** and Subichin SJ (2000): Assessing continuity clinic improvements using resident surveys. *RIME Abstract*.

Tiwari HK, Elston RC and **George V** (1999): A two-stage test of transmission/disequilibrium for quantitative traits in pedigree data. *American Journal of Human Genetics* 65:A449.

George V and Tiwari HK (1999). A regression-based transmission/disequilibrium test for binary trait using logit link function. *Genetic Epidemiology* 17:192.

Ahuja M, **George V**, Brennan D, Davis C, First MR, Johnson CP, Ouseph R, Peddi VR, Vincenti F and Hariharan S (1999): Risk factors for development of post transplant focal segmental glomerulosclerosis (FSGS) and graft failure: A report from Renal Allograft Disease Registry (RADR). *American Society of Transplant Physicians Abstracts*.

Hariharan SH, Adams MB, Brennan DC, Davis CL, First MR, Johnson CP, Ouseph R, Peddi VR, Pelz C, Roza AM, Vincenti F and **George V** (1999): Recurrent and de novo glomerular disease after renal transplantation: A report from Renal Allograft Disease Registry. *Transplantation Proceedings* 31:223.

George V, Tiwari HK and Elston RC (1998): An alternative test for linkage between a marker locus and a quantitative trait. *Genetic Epidemiology* 5:525.

Tiwari HK, **George V** and Schork NJ (1998): Power and sample size consideration for detecting epistasis. *Genetic Epidemiology* 5:532.

Hariharan S, **George V** and Cohen EP (1998): 2001 – The transplant waiting list at the millennium. *American Society of Transplant Physicians Abstracts*.

Meurer JR, Kuhn EM, Yauck JS, **George V** and Layde PM (1998): Charges and length of stay for childhood asthma by hospital ownership and teaching status. *Ambulatory Pediatric Association Abstracts*.

Tiwari HK, **George V** and Schork NJ (1997) Randomly ascertained family-based candidate locus analysis of quantitative traits: efficiency and modeling considerations. *American Journal of Human Genetics*, 61:A213.

Li J, Grim CE, Neduvélil R, Eskender B and **George V** (1997): Free BP screening sites do not follow AHA guidelines and get inaccurate results. *American Journal of Hypertension* 10:144A.

Meurer JR, Kuhn EM, Yauck JS, **George V** and Layde PM (1998): Severity-adjusted charges and bed days for childhood asthma by hospital ownership and teaching status. *AAAAI abstracts*.

Hariharan S, **George V**, Adams MB, Davis CL, First MR, Johnson CP, Roza AM and Vincenti F, Savin VJ (1997): Impact of focal segmental glomerulosclerosis after renal transplantation: A report from the renal allograft recurrent disease registry (RARDR). *American Society of Transplant Physicians Abstracts*.

Goldstein MD, **George V**, Micklebust J, Gauthier S, Sonnenberg GE, Nevin DN, Duyk G, DuPratt L, Leibel R and Kissebah AH (1996): The medical risks and complications of obesity (MRC-OB) genes project - Leptin: A preliminary analysis. *NAASO Abstracts*.

Walton R, DeSalvo J, Hubbell K, Ernst A, **George V** and Shahane A (1994): Padded versus unpadded spinal boards for cervical spine immobilization. *Academic Emergency Medicine* 1:A56.

- Nick TG, **George V** and Elston RC (1993): Methods for the analysis of associations between traits and markers from family data. *Genetic Epidemiology* 10:333.
- Shahane A and **George V** (1993): Testing for treatment effect under truncated bivariate sampling. *JSM Abstracts* 221.
- Nick TG, **George V** and Elston RC (1993): Likelihood ratio test for associations between binary traits and markers. *JSM Abstracts* 253.
- George V** and Elston RC (1992): Likelihood of pedigrees ascertained through sibships. *IBC Proceedings* 2:108.
- George V** Johnson WD and Nick TG (1992): Inference on shift in location in the presence of regression to the mean. *Biometric Bulletin* 9:14.
- Johnson WD and **George V** (1991): Effect of regression to the mean in the presence of within subject variability. *Biometric Bulletin* 8:17.
- Elston RC, Baily-Wilson JE, Bonney GE, Dean DK, Galle BB, **George V**, Keats BJB, Severtson, F, Sorant AJM, Tran LD, Wang HF and Wilson AF (1989): S.A.G.E. - A package of computer programs to perform statistical analysis for genetic epidemiology. *American Journal of Human Genetics* 45:A238.
- Keats BJB, **George V**, Blumenthal MN, Roitman-Johnson B, Yunis E and Elston RC (1987): Associations between immune response to ragweed allergens and HLA antigens in pedigree data. *American Journal of Human Genetics* 41:A257.
- George V** and Elston RC (1986): Determining the association between a polymorphic marker and a quantitative trait in pedigree data. *Cardiovascular Disease Epidemiol. NewsLetter* 39:8.