

D. Michael Hallman

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Education

1994 Ph.D. in Genetics,
The University of Texas Health Science Center at Houston, Houston, Texas

Dissertation: *A Cladistic Analysis of Apolipoprotein B Gene Variation and Plasma Lipid and Apolipoprotein B Levels, Using Familial Data.* Dissertation Supervisor: Eric Boerwinkle.

1988 M.S.P.H. in Epidemiology,
The University of South Carolina, Columbia, South Carolina

Thesis: *The Effect of Changes in Stressful Life Events on Depressive Symptom Scores in a Longitudinal Study of Adolescents.* Thesis Supervisor: Carol Z. Garrison.

1977 B.A. in Biology,
The College of Charleston, Charleston, South Carolina

Honors

1977 Graduated *Summa cum laude* from The College of Charleston

Research Interests

Genetic epidemiology of complex chronic diseases. Genetic analysis of longitudinal data. Methods for using haplotype data in association studies.

Positions

Associate Member of the faculty of the Graduate School of Biomedical Sciences, The University of Texas Health Science Center at Houston, Texas. 2004-present.

Assistant Professor, Human Genetics Center, The University of Texas School of Public Health at Houston, Texas. 2000-present.

Research Assistant Professor, Department of Epidemiology, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana. 1997-2000.

Post-Doctoral Fellow under Eric Boerwinkle, Ph.D., Human Genetics Center, University of Texas-- Houston. 1994-1997.

Graduate Research Assistant, University of Texas Health Science Center at Houston, Texas. 1988-1993.

Graduate Research Assistant, University of South Carolina School of Public Health, Columbia, South Carolina. 1986-1988.

Laboratory Technician, Department of Pharmacology, Medical University of South Carolina, Charleston, South Carolina. 1985-1986.

Professional Memberships

American Association for the Advancement of Science

American Diabetes Association

American Society of Human Genetics

American Statistical Association

International Genetic Epidemiology Society

Publications

Hallman DM, Boerwinkle E, Saha N, Sandholzer C, Menzel HJ, Császár A, Utermann G. (1991). The apolipoprotein E polymorphism: A comparison of allele frequencies and effects in nine populations. *American Journal of Human Genetics* 49:338-349.

Sandholzer C, Hallman DM, Saha N, Sigurdsson G, Lackner C, Császár A, Boerwinkle E, Utermann G. (1991). Effects of the apolipoprotein(a) size polymorphism on the lipoprotein(a) concentration in 7 ethnic groups. *Human Genetics* 86:607-614.

- Boerwinkle E, Hallman DM. (1993). Genotype-by-environment interaction: It's a fact of life. In *Genetics of Cellular, Individual, Family, and Population Variability* (C.F. Sing & C.L. Hanis, eds.), Oxford University Press, New York, pp. 93-105.
- Hallman DM, Visvikis S, Steinmetz J, Boerwinkle E. (1994). The effect of variation in the apolipoprotein B gene on plasma lipid and apolipoprotein B levels. I. A likelihood-based approach to cladistic analysis. *Annals of Human Genetics* 58:35-64.
- Thomas PM, Cote GJ, Hallman DM, Mathew PM. (1995). Homozygosity mapping, to chromosome 11p, of the gene for familial persistent hyperinsulinemic hypoglycemia of infancy. *American Journal of Human Genetics* 56:416-421.
- Boerwinkle E, Ellsworth DL, Hallman DM, Biddinger A. (1996). Genetic analysis of atherosclerosis: A research paradigm for the common chronic diseases. *Human Molecular Genetics* 5:1405-1410.
- Groenemeijer BE, Hallman DM, Reymer PW, Gagné E, Kuivenhoven JA, Bruin T, Jansen H, Lie KI, Bruschke AV, Boerwinkle E, Hayden MR, Kastelein JJ. (1997). Genetic variant showing a positive interaction with beta-blocking agents with a beneficial influence on lipoprotein lipase activity, HDL cholesterol, and triglyceride levels in coronary artery disease patients. The Ser⁴⁴⁷-stop substitution in the lipoprotein lipase gene. REGRESS Study Group. *Circulation* 95:2628-2635.
- Hallman DM, Ellsworth DL, Boerwinkle E. (1997) Molecular and genetic approaches to cardiovascular disease. *Journal of Cardiovascular Risk* 4:325-331.
- Ellsworth DL, Hallman DM, Boerwinkle E. (1997) Impact of the Human Genome Project on epidemiologic research. *Epidemiologic Reviews* 19:3-13.
- Kastelein JJ, Groenemeyer BE, Hallman DM, Henderson H, Reymer PW, Gagné SE, Jansen H, Seidell JC, Kromhout D, Jukema JW, Bruschke AV, Boerwinkle E, Hayden MR. (1998) The Asn9 variant of lipoprotein lipase is associated with the -93G promoter mutation and an increased risk of coronary artery disease. The REGRESS Study Group. *Clinical Genetics* 53:27-33.
- Hallman DM, Groenemeijer BE, Jukema JW, Boerwinkle E, Kastelein JJP. (1999) Analysis of lipoprotein lipase haplotypes reveals associations not apparent from analysis of the constituent loci. *Annals of Human Genetics* 63:499-510.

- Hallman DM, Srinivasan SR, Elkasabany A, Boerwinkle E, Berenson GS. (2001) The *Ser*₄₄₇-*Stop* polymorphism of lipoprotein lipase is associated with variation in longitudinal serum HDL-cholesterol profiles. The Bogalusa Heart Study. *Metabolism* 50:894-904.
- Hallman DM, Srinivasan SR, Chen W, Boerwinkle E, Berenson GS. (2004) The β_2 -adrenergic receptor Arg₁₆-Gly polymorphism and interactions involving β_2 - and β_3 -adrenergic receptor polymorphisms are associated with variation in longitudinal serum lipid profiles. The Bogalusa Heart Study. *Metabolism* 53:1184-1191.
- Hallman DM, Brown SA, Ballantyne CM, Sharrett AR, Boerwinkle E. (2004) The relationship between low-density lipoprotein subclasses and asymptomatic atherosclerosis in subjects from the Atherosclerosis Risk in Communities (ARIC) Study. *Biomarkers* 9:190-202.
- Hallman DM, Huber JC Jr., Gonzalez VH, Klein BEK, Klein R, Hanis CL. (2005) Familial aggregation of severity of diabetic retinopathy in Mexican Americans from Starr County, Texas. *Diabetes Care* 28:1163-1168.
- Hanis CL, Hallman DM. (2006) Genetics of diabetic retinopathy. *Current Diabetes Reports* (in press).
- Maitland-Van Der Zee A-H, Jukema JW, Zwinderman AH, Hallman DM, De Boer A, Kastelein JJP, De Knijff P (2006) Apolipoprotein-E polymorphism and response to pravastatin in men with coronary artery disease (REGRESS). *Acta Cardiologica* (in press).
- Hallman DM, Srinivasan SR, Chen W, Boerwinkle E, Berenson GS. (2006) Longitudinal analysis of haplotypes and polymorphisms of the APOA5 and APOC3 genes associated with variation in serum triglyceride levels. The Bogalusa Heart Study. *Metabolism* (in press).
- Hallman DM, Srinivasan SR, Chen W, Boerwinkle E, Berenson GS. PCSK9 mutations are associated with reduced serum low-density lipoprotein cholesterol in childhood and adulthood. The Bogalusa Heart Study. (Submitted).

Posters and presentations

Hallman DM, Huber Jr. JC, Klein BE, Klein R, Hanis CL. (Poster) Familial aggregation of severity of diabetic retinopathy in Mexican-Americans from Starr County, Texas. American Diabetes Association 64th Scientific Sessions, Orlando, Florida, June 4-8, 2004.

Hallman DM, Srinivasan SR, Chen W, Boerwinkle E, Berenson GS. (Accepted Poster) PCSK9 polymorphisms are associated with reduced serum low-density lipoprotein cholesterol levels in children and adults. The Bogalusa Heart Study. American Society of Human Genetics 56th Annual Meeting, New Orleans, Louisiana, October 9-13, 2006.

Allam SR, Hallman DM, Aday LA, Phan AT. (Accepted Poster) Colorectal cancer among Hispanics in the United States. American College of Gastroenterology 71st Annual Scientific Meeting, Las Vegas, Nevada, October 20-25, 2006.

Grant Reviews

May, 2001: Scientist Reviewer, Clinical Health Services panel, Congressionally Directed Medical Research Program on Prostate Cancer, U.S. Department of Defense, Washington, D.C.

July, 2002: Scientist Reviewer, Clinical Health Services panel, Congressionally Directed Medical Research Program on Prostate Cancer, U.S. Department of Defense, Washington, D.C.

August, 2002: Scientist Reviewer, Ovarian Cancer panel # 4, Congressionally Directed Medical Research Program on Ovarian Cancer, U.S. Department of Defense, Washington, D.C.

June, 2003: Scientist Reviewer, Clinical Health Services panel, Congressionally Directed Medical Research Program on Prostate Cancer, U.S. Department of Defense, Washington, D.C.

August, 2006: Invited Reviewer, Center for Border Health Research, Paso del Norte Health Foundation, El Paso, Texas

Manuscript Reviews

Have reviewed manuscripts for the following journals:

Annals of Epidemiology

Circulation

Diabetes

Future Cardiology

Human Genetics

Journal of Molecular Medicine

Medical Science Monitor

Metabolism

Revised, 9/8/06