

BIOGRAPHICAL SKETCH

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NAME Rice, Treva		POSITION TITLE Research Associate Professor	
eRA COMMONS USER NAME (credential, e.g., agency login) TrevaRice			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Univ. of Texas, Arlington, Texas	B.S.	1981	Psychology
Univ. of Colorado, Boulder, Colorado	M.A.	1984	Psychology
Univ. of Colorado, Boulder, Colorado	Ph.D.	1987	Psychology, Behavior Genetics

A. Positions and Honors

- 1981-1987 Graduate Research Assistant in the Department of Psychology, Institute for Behavioral Genetics, and Colorado Adoption Project, University of Colorado, Boulder, Colorado
- 1987-1989 Research Instructor, Div. of Biostatistics, Washington Univ. Sch. of Medicine, St. Louis, MO
- 1989-1998 Research Asst. Professor, Div. of Biostatistics, Washington Univ. Sch. of Med., St. Louis, MO
- 1998-present Research Assoc. Professor, Div. of Biostatistics, Washington Univ. Sch. of Med., St. Louis, MO

Professional Societies / Organizations: AAAS, American Psychology Society (Founding Mbr), ASHG, Behavior Genetic Association, International Genetic Epidemiology Society (Founding Mbr), NAASO, ACSM

Editorial Board: Journal of Nutrigenetics and Nutrigenomics

B. Selected Publications: Selected from over 170 publications

- Rice T, Fulker DW, DeFries JC, Plomin R. Path analysis of IQ during infancy and early childhood and an index of the home environment in the Colorado Adoption Project. Intelligence, 12:27-45, 1988.
- Rice T, Vogler GP, Pérusse L, Bouchard C, Rao DC. Cardiovascular risk factors in a French-Canadian population: Resolution of genetic and familial environmental effects on blood pressure using twins, adoptees and extensive information on environmental correlates. Genet Epidemiol, 6(5):571-588, 1989.
- Rice T, Bouchard C, Borecki IB, Rao DC. Commingling and segregation analysis of blood pressure in a French-Canadian population. Am J Hum Genet, 46(1):37-44, 1990.
- Rice T, Vogler GP, Laskarzewski PM, Perry TS, Rao DC. Familial aggregation of lipids and lipoproteins in families ascertained through random and nonrandom probands in the Minnesota Lipid Research Clinics family study. Hum Biol, 63(4):419-439, 1991.
- Rice T, Province MA, Keller JB, Bouchard C, Higgins MW, Rao DC. Heterogeneity among populations for familial aggregation of blood pressure. Am J Hum Biol, 3:515-523, 1991.
- Rice T, Borecki IB, Bouchard C, Rao DC. Commingling analysis of regional fat distribution measures: The Québec Family Study. Int J Obes, 16(10):831-844, 1992.
- Rice T, Borecki IB, Bouchard C, Rao DC. Segregation analysis of fat mass and other body composition measures derived from underwater weighing. Am J Hum Genet, 52(5):967-973, 1993.
- Rice T, Borecki IB, Bouchard C, Rao DC. Segregation analysis of body mass index in an unselected French-Canadian sample: The Québec Family Study. Obes Res, 1:288-294, 1993.
- Rice T, Bouchard C, Pérusse L, Rao DC. Familial clustering of multiple measures of adiposity and fat distribution in the Québec Family Study: A trivariate analysis of percent body fat, body mass index, and trunk-to-extremity skinfold ratio. Int J Obes, 19:902-908, 1995.
- Rice T, Pérusse L, Bouchard C, Rao DC. Familial clustering of abdominal visceral fat and total fat mass: The Québec Family Study. Obes Res, 4(3):253-261, 1996.
- Rice T, Tremblay A, Dériaz O, Pérusse L, Rao DC, Bouchard C. Genetic pleiotropy for resting metabolic rate with fat-free mass and fat mass: The Québec Family Study. Obes Res, 4:125-131, 1996.
- Rice T, Nadeau A, Pérusse L, Bouchard C, Rao DC. Familial correlations in the Québec Family Study: cross trait familial resemblance for body fat with plasma glucose and insulin. Diabetologia, 39:1357-1364, 1996.
- Rice T, Tremblay A, Dériaz O, Pérusse L, Rao DC, Bouchard C. A major gene for high resting metabolic rate unassociated with body composition: results from the Québec Family Study. Obes Res 4(5):441-449 1996.

- Rice T, Després JP, Daw EW, Gagnon J, Borecki IB, Pérusse L, Leon AS, Skinner JS, Wilmore JH, Rao DC, Bouchard C. Familial resemblance for abdominal visceral fat: The HERITAGE Family Study. Int J Obes, 21(11):1024-1031, 1997.
- Rice T, Daw EW, Gagnon J, Bouchard C, Leon AS, Skinner JS, Wilmore JH, Rao DC. Familial resemblance for body composition measures: The HERITAGE Family Study. Obes Res, 5(6):557-562, 1997.
- Rice T, Després JP, Pérusse L, Gagnon J, Leon AS, Skinner JS, Wilmore JH, Rao DC, Bouchard C. Segregation analysis of abdominal visceral fat: the HERITAGE Family Study. Obes Res 5(5):417-424, 1997.
- Rice T, Hong Y, Pérusse L, Després JP, Gagnon J, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC. Total body fat and abdominal visceral fat response to exercise training in the HERITAGE Family Study: evidence for major locus but no multifactorial effects. Metabolism, 48(10):1278-1286, 1999.
- Rice T, Pérusse L, Bouchard C, Rao DC. Familial aggregation of body mass index and subcutaneous fat measures in the longitudinal Québec Family Study. Genet Epidemiol, 16(3):316-334, 1999.
- Rice T, Sjöström CD, Pérusse L, Rao DC, Sjöström L, Bouchard C. Segregation analysis of body mass index in a large sample selected for obesity: The Swedish Obese Subjects study. Obes Res 7(3):246-255 1999.
- Rice T, Rao R, Pérusse L, Bouchard C, Rao DC. Tracking of familial resemblance for resting blood pressure over time in the Québec Family Study. Hum Biol, 72(3):415-431, 2000.
- Rice T, Rankinen T, Province MA, Chagnon YC, Pérusse L, Borecki IB, Bouchard C, Rao DC. Genome-wide linkage analysis of systolic and diastolic blood pressure: The Québec Family Study. Circulation, 102(16): 1956-1963, 2000.
- Rice TK, Borecki IB. Familial resemblance and heritability. Adv Genet, 42:35-44, 2001.
- Rice T, Pérusse L, Bouchard C. Genetics of energy and nutrient intake. In St. Jeor ST, Feldman EB (eds), Handbook of Nutrition and Foods. CRC Press, Boca Raton, 603-609, 2002.
- Rice T, Chagnon YC, Pérusse L, Borecki IB, Ukkola O, Rankinen T, Gagnon J, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC. A genome wide linkage scan for abdominal subcutaneous and visceral fat in black and white families: The HERITAGE Family Study. Diabetes, 51(3):848-855, 2002.
- Rice T, An P, Gagnon J, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC. Heritability of HR and BP response to exercise training in the HERITAGE Family Study. Med Sci Sports Exer 34(6):972-979 2002.
- Rice T, Chagnon YC, Borecki IB, Pérusse L, Collier G, Gagnon J, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC. Familial resemblance for plasma leptin: Sample homogeneity across adiposity and ethnic groups. Obes Res, 10(5):351-360, 2002.
- Rice T, Rankinen T, Chagnon YC, Province MA, Pérusse L, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC. Genomewide linkage scan of resting blood pressure: HERITAGE Family Study. Hypertension, 39(6):1037-1043, 2002.
- Rice T, Després JP, Pérusse L, Hong Y, Province MA, Bergeron J, Gagnon J, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC. Familial aggregation of blood lipid response to exercise training in the health, risk factors, exercise training, and genetics (HERITAGE) Family Study. Circulation 105(16):1904-1908 2002.
- Rice T, Cooper RS, Wu X, Bouchard C, Rankinen T, Rao DC, Jacquish CE, Fabsitz RR, Province MA. Meta analysis of genome-wide scans for blood pressure in African American and Nigerian samples: The NHLBI GeneLink Project. Am J Hypertens 19:270-274, 2005.
- Gu D, Rice T, Wang S, Yang W, Gu C, Chen CS, Hixson JE, Jacquish CE, Yao ZJ, Liu DP, Rao DC, He J. Heritability of blood pressure response to dietary sodium and potassium intake in a Chinese population. Hypertension 50:116-122,2007.
- Wu J, Province MA, Coon H, Hunt SC, Eckfeldt JH, Arnett DK, Heiss G, Lewis CE, Ellison RC, Rao DC, Rice T, Kraja AT. An investigation of the effects of lipid-lowering medications: Genome-wide linkage analysis of lipids in the HyperGEN study. BMC Genetics 8:60, 2007.
- Rice T. Commingling and segregation analysis. In Clément K and Sørensen TIA (eds) Obesity: Genomics and Postgenomics. Informa Healthcare USA Inc, NY, pp 59-76, 2008.
- Rice TK, Schork NJ, Rao DC. Methods for handling multiple testing. In Rao DC (ed) Advances in Genetics, Genetic Dissection of Complex Traits, 2nd Edition, Elsevier, NY (in press) 2008.
- Rice TK. Familial resemblance and heritability. In Rao DC (ed) Advances in Genetics, Genetic Dissection of Complex Traits, 2nd Edition, Elsevier, NY (in press) 2008.
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5 U01 HL54473

Rao, D.C.

9/5/1995-8/31/2009

NIH/NHLBI

The Family Blood Pressure Program (Program Data Center)

Program Data Center for a collaborative network to find and characterize genes promoting hypertension in humans and study interacting non-genetic factors with an emphasis on making the Program a shared resource for hypertension researchers in the United States and throughout the world.

Role: Co-Investigator

R01 HL69870

Rice, Treva

12/1/2003-6/30/2012

NHLBI/U. of Louisiana

Hypgene-Genetics, Fitness, Obesity & Risk of Hypertension

The HYPGENE (Genetics, Fitness, Obesity and Risk of Hypertension) is a case-control study investigating the hypothesis that the effects of DNA sequence variations in candidate genes on risk of developing hypertension depends on levels of obesity and cardiorespiratory fitness.

Role: Subcontract PI

5P20MH62130

Csernansky

8/1/2004-7/31/2009

NIH

Mapping Abnormal Neurodevelopment in Schizophrenia

Core 3 - Biostatistics Core: The Conte Center is a longitudinal examination of schizophrenic patients, their siblings and unrelated controls. In the center, MR, psychiatric measures and other approaches to the quantification of schizophrenic behavior will be used to follow these subjects. The Biostatistics Core (PA Thompson, PI) will be responsible for data entry, data analysis and data storage for the Conte Center. The core will also be responsible for web site management, database management and other activities to manage the database.

Role: Co-Investigator
