

## CURRICULUM VITAE - D. C. RAO

**1. Personal Information:**

Sex: Male

Date of Birth: 6 April 1946

Place of Birth: Santhabommali, Andhra Pradesh, India

**2. Citizenship:** USA

**3. Address and Telephone Numbers:**

Division of Biostatistics

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**4. Present Position:** Professor and Director, Division of Biostatistics

**5. Education:**

Indian Statistical Institute Calcutta, India	B. Stat.	1967	statistics, mathematics, botany, zoology, biochemistry, chemistry, physics, geology, economics, and genetics
Indian Statistical Institute Calcutta, India	M. Stat.	1968	several courses on human genetics and probability. Specialized in advanced probability and mathematical genetics
Indian Statistical Institute Calcutta, India	Ph.D.	1971	Thesis: A Statistical Study of Tongue Pigmentation in Man (Supervisor: Dr. C.R. Rao)

**6. Academic Positions/Employment:**

1971-1972 Post-doctoral Fellow, Department of Probability and Statistics, University of Sheffield, England

1972-1978 Assistant Geneticist (Asst. Prof.), Population Genetics Laboratory, University of Hawaii, Honolulu

1978-1980 Associate Geneticist (Assoc. Prof.), Population Genetics Laboratory, University of Hawaii, Honolulu

- 1980-1982 Associate Professor and Director, Division of Biostatistics, Department of Preventive Medicine; Associate Professor, Departments of Psychiatry and Genetics; Adjunct Associate Professor, Department of Mathematics, Washington University, St. Louis, Missouri
- 1982-present Professor and Director, Division of Biostatistics; Professor, Departments of Psychiatry and Genetics; Washington University School of Medicine, St. Louis, Missouri  
Adjunct Professor, Department of Mathematics, Washington University, St. Louis, Missouri.

## 7. Other Experience:

- (a) Acting Director, Population Genetics Laboratory, University of Hawaii, Honolulu, on numerous occasions during 1972-80.
- (b) Director, Division of Biostatistics, Washington University, St. Louis, MO, 1980 - present
- (d) President, International Genetic Epidemiology Society (IGES), 1996; (President-Elect, 1995; Past-President, 1997).

## 8. Awards/ Recognition

- (a) "Most Admired Man of the Decade" Award from the American Biographical Institute, 1992.
- (b) TANA Award for "Outstanding Achievements in Science" (Telugu Association of North America), 1993.
- (c) "Five Hundred Leaders of Influence", a biographic compilation by the American Biographical Institute, 1996.
- (d) "IGES Leadership Award" from the International Genetic Epidemiology Society (IGES), 1997.
- (e) "Who's Who in Medicine and Healthcare, ABI, 1998.
- (f) "Champion of Public Health", Awarded by the School of Public Health and Tropical Medicine, Tulane University, New Orleans, 2005.

## 9. Editorships/ Editorial Boards

- (a) Editor-in-Chief, *GENETIC EPIDEMIOLOGY* (a bimonthly journal published by Wiley-Liss 1984-1991).
- (b) Editorial Board (Genetics), *OBESITY RESEARCH* (1995-present).
- (c) Editorial Board, *HUMAN BIOLOGY* (1993-1995).
- (d) Editorial Board, *ANNALS OF EPIDEMIOLOGY* (1995-present).
- (e) Editorial Board, *HUMAN HEREDITY* (1997-2005).
- (f) Editorial board, *INTERNATIONAL JOURNAL OF HUMAN GENETICS*, (2001 – present).

## 10. Memberships/Fellowships:

- (a) Member of the Biometric Society
- (b) Member of the American Statistical Association

- (c) Fellow of the Royal Statistical Society
- (d) Member of the Society for Epidemiological Research
- (e) Life member of the American Society of Human Genetics
- (f) Life member of the Indian Society of Human Genetics
- (g) Founding member of the International Genetic Epidemiology Society.

## 11. Teaching/Training Experience

- a) 2002 – Present      Course master for “Independent Study” in Genetic Epidemiology  
Course master for “Independent Research” in Genetic Epidemiology
- b) 2002 – Present      Program Director, Genetic Epidemiology  
Masters of Science (GEMS) Training Program
- c) 2004 – Present      Co-Program Director, Pre-doctoral training in  
“Quantitative Human and Statistical Genetics” (QHSG)
- d) 2006 – Present      Program Director, Summer Institute to increase Diversity (Sponsored by  
NHLBI): “Genetic Epidemiology of Cardiovascular Disease and Risk  
Factors”
- e) **Trainees**

Trainee Name	Degree	Dates of Training	Res Proj	Current Position
Wick Williams	Ph.D.	1976-1980	Genetic Epidemiology	Deceased (last position was at the M.D. Anderson Hospital, Houston)
Van Eerdewegh, P.	Ph.D.	1980-1982	Structural Equation Models	Director of Statistical Genetics, Genome Therapeutics Corp.
Province, M.	Ph.D.	1980-1987	Temporal Trends	Professor of Genetics, Washington University
Byard, P.J.	Post-doc	1981-1982	Genetics of Ped. Disorders	Asst. Prof. of Pediatrics, Ohio State University
McGue, M.	Post-doc	1981-1984	Genetic Epidemiology	Professor, University of Minnesota
Borecki, I.	Post-doc	1983-1986	Genetic Epidemiology	Assoc. Prof. Washington University
Gillian, S.	Ph.D.	1984-1988	Genetics of Alcoholism	International School, Antwerp, Belgium
Lobos, E.	Ph.D.	1984-1994	Lineage Disequilibrium	Research Instructor, Washington University
Vogler, G.	Post-doc	1985-1987	Multivariate Path Analysis	Professor, Pennsylvania State University
Silverman, E.	Ph.D.	1987-1995	Genetics of COPD	Asst. Prof., Brigham & Women’s Hospital
Mitchell, L.	Jr. Faculty	1991-1995	Genetic Epidemiology	Assoc. Prof. Texas A&M University
Badaruddoza	Ph.D.	1992	Genetic Epidemiology	The Aligarh Muslim University,

				Aligarh, India
Feitosa, M.	Post-doc	1992-1994 1997-1999	Genetic Epidemiology	Res. Asst. Professor, Washington University
Olson, P.	Ph.D.	1994	Phenotypic Plasticity and Ontogenetic Variation.	Pioneer Hybrid, Des Moines, Iowa
Todorov, A.	Jr. Faculty	1994-1997	Genetic Epidemiology	Res.Assoc. Prof., Washington University
Gu, C.	Jr. Faculty	1995-1998	Genetic Epidemiology	Asst. Prof., Washington University
An, P.	Jr. Faculty	1997-2000	Genetic Epidemiology	Res. Asst. Prof., Washington University
Hong, Y.	Jr. Faculty	1997-2001	Genetic Epidemiology	Faculty, American Heart Assn.
Corbett, J.	Jr. Faculty	2002-2003	Genetic Epidemiology	Research Instructor, Washington University
Wu, J.	M.S.	2003-2004	Genetic Epidemiology	Research Statistician, Washington University
Ehrich, T.	Ph.D.	2000-2004	Genetics of Dietary Obesity	Law Student, Northwestern University
Kraja, A.	Post-doc	1999-2006	Genetic Epidemiology	Res. Instructor, Washington University
Yu, K.	Jr. Faculty	2003-2005	Genetic Epidemiology	Instructor, National Cancer Institute
Howell, S.A.	Ph.D.	2002-2004	Mathematics	Selected for the Presidential Management Program as a Fellow. Systems Analyst for the U.S. Army in Virginia.
Flores, H.	M.S.	2005-2006	Genetic Epidemiology	Research Assistant, Cardiology, Washington University
de las Fuentes, L.	M.D./M.S.	2006-Present	Genetic Epidemiology	Asst. Prof. Medicine, Washington University.
Ross, J.	GEMS MS	2005-2006	Genetic Epidemiology	M.D. Student, Duke University
Kenney-Hunt, J.	Ph.D.	2006-Present	Genetics	DBBS Student, Washington University
Kishore Kumar, B.	Ph.D.	2004-2006	Clinical Trials	University of Madras, India
Crosswhite, Michael	M.S.	2005-2008	Genetic Epidemiology	Private Industry
Huang, Pin-Chia (Any)	GEMS MS	2006	Genetic Epidemiology	GEMS Student, Washington University
Zhou, J	B.S.	2006-2008	Genetic imprinting in obesity	GEMS Program – Washington University
Park, Yong-Moon	MD/PhD	2007-Present	Contribution of Important Candidate Gene Networks and Inflammatory markers	GEMS Program – Washington University

			to Metabolic Syndrome	
Sung, Yun Ju	Ph.D.	2006-Present	MCMC linkage analysis for two genes and a polygenic component on general pedigrees	Assistant Professor, Washington University
Shi, Gang	Ph.D.	2006-Present	Statistical analysis of time-reversal imaging	Research Instructor, Washington University

## 12. Bibliography

### BOOKS

- i. Keats BJB, Morton NE, Rao DC and Williams WR. A Source Book for Linkage in Man, Johns Hopkins University Press, Baltimore. 1979. (Citation # 58 in the list of publications below)
- ii. Morton NE, Rao DC and Lalouel JM. Methods in Genetic Epidemiology, S. Karger, New York. 1983. (Citation # 85 in the list of publications below)
- iii. Rao DC, Elston RC, Kuller LH, Feinleib M, Carter C and Havlik R (Eds.). Genetic Epidemiology of Coronary Heart Disease: Past, Present, and Future, Alan R. Liss, Inc., New York. 1984. (Citation # 95 in the list of publications below)
- iv. Rao DC and Province MA. (eds.) Genetic Dissection of Complex Traits, San Diego, CA, Academic Press. 2001. (Citation # 330 in the list of publications below)
- v. Rao CR, Miller JP, Rao DC (eds) Epidemiology and Medical Statistics, (Citation # 520 in the list of publications below)
- vi. RaoDC and C. Charles Gu (eds) Genetic Dissection of Complex Traits (2<sup>nd</sup> Edition), (Citation # 526 in the list of publications below)

### a) Published or in press

1. Rao DC. Tongue pigmentation in man: A new genetic trait. Current Science (Bangalore, India). 39:161-162, 1969.
2. Rao DC. Tongue pigmentation in man. Human Heredity 20:8-12, 1970.
3. Rao DC. Genetics of tongue pigmentation in man. Human Heredity 20:590-599, 1970.
4. Rao DC. The relation between tongue pigmentation and mental ability. Human Heredity 20:600-603, 1970.
5. Rao DC. Further analysis of family data on tongue pigmentation in man. Japanese Journal of Human Genetics 15:176-181, 1970.
6. Rao DC and Bose M. Tongue pigmentation in newborn. Japanese Journal of Human Genetics

- 15:182-185, 1970.
7. Rao DC and Gorai JK. Penetrance of the tongue pigmentation allele. Japanese Journal of Human Genetics 15:186-191, 1970.
  8. Rao DC. A contribution to the genetics of hypertrichosis of the ear rims. Human Heredity 20:486-492, 1970.
  9. Rao DC. Two-gene hypothesis for hairy pinnae of the ear. Acta Geneticae Medicae Gemellologiae 19:448-453, 1970.
  10. Rao DC. A note on Li's paper. Journal of the Indian Society of Agricultural Statistics 22:53-58, 1970.
  11. Rao DC. Statistical methods in blood groups. Proceedings II Mastech Conference, (Madras, India), pp 77-92, 1970.
  12. Rao DC. Book Review on "The National Halothane Study" (U.S.A.), Sankhya, (Calcutta, India) 32:357-358. 1970.
  13. Rao DC. Complex segregation analysis. American Journal of Human Genetics 23:325-326, 1971.
  14. Chakraborty R and Rao DC. Detection of the inbreeding coefficient from ABO blood-group data. American Journal of Human Genetics 24:352-354, 1972.
  15. Chakraborty R and Rao DC. Maximum likelihood estimation of chromosome frequencies from family data on MNS blood groups. Sankhya, (Calcutta, India) 34:33-40, 1972.
  16. Rao DC, Satyanarayana M, Veerraju P and Rao BB. Tongue pigmentation in man: Ethnic studies and further pedigrees. Acta Geneticae Medicae Gemellologiae 21:221-232, 1972.
  17. Rao DC. Hypertrichosis of the ear rims: Two remarks on the two-gene hypothesis. Acta Geneticae Medicae Gemellologiae 21:216-220, 1972.
  18. Rao DC. Detection of the fixation coefficient F from MNS blood group data. Acta Geneticae Medicae Gemellologiae 21:211-215, 1972.
  19. Rao DC. Formal segregation analysis for tongue pigmentation in man. Human Heredity 23:308-312, 1973.
  20. Rao CR, Rao DC and Chakraborty R. "The generalized Wright's model" In: Genetic Structure of Populations, (ed. NE Morton), University Press of Hawaii, Honolulu, HI, pp 55-59, 1973.
  21. Rao DC and Morton NE. Large deviations in the distribution of rare genes. American Journal of Human Genetics 25:594-597, 1973.
  22. Rao DC, Yee S, Eskola M and Eriksson AW. Analysis of ABO mating type frequencies. Human Heredity 24:59-69, 1974.

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23. Shanbhag DN and Rao DC. On Haldane's exact test for random mating. Journal of Genetics 61:169-176, 1974.
24. Rao DC and Chakraborty R. The generalized Wright's model and population structure with special reference to the ABO blood group system. American Journal of Human Genetics 26:444-453, 1974.
25. Rao DC, Morton NE and Yee S. Analysis of family resemblance. II. A linear model for familial correlation. American Journal of Human Genetics 26:331-359, 1974.
26. Rao DC and Morton NE. Path analysis of family resemblance in the presence of gene-environment interaction. American Journal of Human Genetics 26:767-772, 1974.
27. Rao DC and Chakraborty R. Detection of inbreeding and efficiency of mating bioassay. American Journal of Human Genetics 26:578-580, 1974.
28. Halperin SL, Rao DC and Morton NE. A twin study of intelligence in Russia. Behavior Genetics 5:83-86, 1975.
29. Morton NE and Rao DC. Monomorphism and heterozygosity. Heredity 34:427-431, 1975.
30. Rao DC, MacLean C, Morton NE and Yee S. Analysis of family resemblance. V. Height and Weight in Northeastern Brazil. American Journal of Human Genetics 27:509-520, 1975.
31. Sciulli PW and Rao DC. Path analysis of palmar ridge counts. American Journal of Physical Anthropology 43:291-293, 1975.
32. Rao DC, Morton NE and Yee S. Resolution of cultural and biological inheritance by path analysis. American Journal of Human Genetics 28:228-242, 1976.
33. Salzano FM and Rao DC. Path analysis of aptitude, personality and achievement scores in Brazilian twins. Behavior Genetics 76:461-466, 1976.
34. Morton NE, Rao DC and Yee S. An inferred chiasma map of *Drosophila melanogaster*. Heredity 37:405-411, 1976.
35. Rao DC, Morton NE, Elston RC and Yee S. Causal analysis of academic performance. Behavior Genetics 7:147-159, 1977.
36. Chung CS, Kau MCW, Chung SSC and Rao DC. A genetic and epidemiologic study of periodontal disease in Hawaii. II. Genetic and environmental influence. American Journal of Human Genetics 29:76-82, 1977.
37. Morton NE, Rao DC, Lang-Brown H, MacLean CJ, Bart RD and Lew R. Colchester revisited: A genetic study of mental defect. Journal of Medical Genetics 14:1-9, 1977.
38. Rao DC, Morton NE, Lindsten J, Hulten M and Yee S. A mapping function for man. Human Heredity 27:99-104, 1977.
39. Morton NE, Rao DC, Lindsten J, Zech L and Yee S. A chiasm map of man. Human Heredity 27:38-

- 51, 1977.
40. Post PW and Rao DC. Genetic and environmental determinants of skin color. American Journal of Physical Anthropology 47:399-402, 1977.
  41. Rao DC and Morton NE. Residual family resemblance for PTC taste sensitivity. Human Genetics 36:317-320, 1977.
  42. Keats BJB, Morton NE and Rao DC. Likely linkage: Inv. with Jk. Human Genetics 39:157-159, 1977.
  43. Gerrard J, Rao DC and Morton NE. A genetic study of immunoglobulin E. American Journal of Human Genetics 30:46-58, 1978.
  44. Rao DC and Lew R. Complex segregation analysis of tongue pigmentation: A search for residual family resemblance. Human Heredity 28:317-320, 1978.
  45. Rao DC, Keats BJB, Morton NE, Yee S and Lew R. Variability in human linkage data. American Journal of Human Genetics 30:516-529, 1978.
  46. Rao DC and Morton NE. "IQ as a paradigm in genetic epidemiology" In: Genetic Epidemiology, (eds. NE Morton and CS Chung), Academic Press, New York, pp 145-182, 1978.
  47. Rao DC, Morton NE and Yee S. Resolution of cultural and biological inheritance by path analysis: Corrigenda and reply to Dr. Goldberger. American Journal of Human Genetics 30:445-448, 1978.
  48. Elston RC and Rao DC. Statistical modeling and analysis in Human Genetics. Annual Reviews of Biophysics and Bioengineering 7:253-286, 1978.
  49. Morton NE and Rao DC. Quantitative inheritance in man. Yearbook of Physical Anthropology 21:12-41, 1978.
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  51. Keats BJB, Morton NE and Rao DC. Possible linkages (lod score over 1.5), and a tentative map of the Jk-Km linkage group. Cytogenetics Cell Genetics 22:304-308, 1978.
  52. Rao DC, Morton NE, Gulbrandsen CL, Rhoads GG, Kagan A and Yee S. Cultural and biological determinants of lipoprotein concentrations. Annals of Human Genetics 42:467-477, 1979.
  53. Morton NE and Rao DC. "Causal analysis of family resemblance" In: The Genetic Analysis of Common Diseases: Applications to Predictive Factors in Coronary Heart Disease, (eds. CF Sing and M Skolnick), Alan R. Liss, Inc., New York, pp 431-452, 1979.
  54. Rao DC, Morton NE and Cloninger CR. Path analysis under generalized assortative mating. I. Theory. Genetical Research 33:175-188, 1979.
  55. Rao DC, Chung CS and Morton NE. Genetic and environmental determinants of periodontal disease.

- American Journal of Medical Genetics 4:39-45, 1979.
56. Rao DC, Keats BJB, Lalouel JM, Morton NE and Yee S. A maximum likelihood map of chromosome 1. American Journal of Human Genetics 31:680-696, 1979.
  57. Gulbrandsen CL, Morton NE, Rao DC, Rhoads GG and Kagan A. Determinants of plasma uric acid. Human Genetics 50:307-312, 1979.
  58. Keats BJB, Morton NE, Rao DC and Williams WR. A Source Book for Linkage in Man, Johns Hopkins University Press, Baltimore. 1979.
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  60. Rao DC. Joint distribution of z transforms estimated from the same sample. Human Heredity 29:334-336, 1979.
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  62. Morton NE, Gulbrandsen CL, Rao DC, Rhoads GG and Kagan A. Determinants of blood pressure in JapaneseAmerican families. Human Genetics 53:261-266, 1980.
  63. Rao DC and Morton NE. Path analysis of quantitative inheritance. In: Current Developments in Anthropological Genetics, (eds. MH Crawford and J Mielke), Plenum Press. 1980.
  64. Post PW, Rao DC and Scarr S. Effect of skin color on self-esteem. Social Biology 26:51-54, 1980.
  65. Rao DC, Morton NE, Lalouel JM and Gerrard JW. Immunoglobulin E revisited. American Journal of Human Genetics 32:620-625, 1980.
  66. Krieger H, Morton NE, Rao DC and Azevedo E. Familial determinants of blood pressure in Northeastern Brazil. Human Genetics 53:415-418, 1980.
  67. Morton NE and Rao DC. Hereditary genius: A centennial problem in resolution of cultural and biological inheritance. Social Biology 27:48-52, 1980.
  68. Keats BJB, Morton NE and Rao DC. Reduction of physical assignments to a standard lod table: Chromosome 1. Human Genetics 56:353-359, 1981.
  69. Rao DC, Morton NE, Gottesman II and Lew R. Path analysis of qualitative data on pairs of relatives: Application to schizophrenia. Human Heredity 31:325-333, 1981.
  70. Barbosa CAA, Rao DC and Morton NE. Analysis of family resemblance for immunoglobulin M, G and A levels. Human Heredity 31:8-14, 1981.
  71. Barbosa CAA, Morton NE, Rao DC and Krieger H. Biological and cultural determinants of immunoglobulin levels in a Brazilian population with Chagas' disease. Human Genetics 59:161-163,

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1981.

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75. Malhotra KC and Rao DC. Path analysis of total palmar pattern ridge counts. American Journal of Physical Anthropology 58:187-189, 1982.
76. Rao DC, Laskarzewski PM, Morrison JA, Khoury P, Kelly K and Glueck CJ. The Cincinnati Lipid Research Clinic Family Study: Familial determinants of plasma uric acid. Human Genetics 60:257-261, 1982.
77. Rao DC, Laskarzewski PM, Morrison JA, Khoury P, Kelly K, Wette R, Russell JM and Glueck CJ. The Cincinnati Lipid Research Clinic Family Study: Cultural and biological determinants of lipids and lipoprotein concentrations. American Journal of Human Genetics 34:888-903, 1982.
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79. Iselius L, Morton NE and Rao DC. Family resemblance for blood pressure. Human Heredity 33:277-286, 1983.
80. McGue M, Laskarzewski PM, Rao DC, Morrison JA, Khoury P, Kelly K and Glueck CJ. The Cincinnati Lipid Research Clinic Family Study: Commingling in the distributions of lipids and lipoprotein concentrations. Human Heredity 33:223-230, 1983.
81. McGue M, Rao DC, Reich T, Laskarzewski PM, Glueck CJ and Russell JM. The Cincinnati Lipid Research Clinic Family Study: Bivariate path analysis of lipoprotein concentrations. Genetical Research 42:117-135, 1983.
82. Rao DC, Williams WR, McGue M, Morton NE, Gulbrandsen CL, Rhoads GG, Kagan A, Laskarzewski PM, Glueck CJ and Russell JM. Cultural and biological inheritance of plasma lipids. Proc. Workshop on "Genetic Analysis of Disease in Human Populations". American Journal of Physical Anthropology 62:33-49, 1983.
83. Williams WR, Morton NE, Rao DC, Gulbrandsen CL, Rhoads GG and Kagan A. Family resemblance for fasting blood glucose in a population of Japanese Americans. Clinical Genetics 23:287-293, 1983.
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- populations for multifactorial inheritance of plasma lipids. American Journal of Human Genetics 35:468-483, 1983.
85. Morton NE, Rao DC and Lalouel JM. Methods in Genetic Epidemiology, S. Karger, New York. 1983.
86. Cloninger CR, Rao DC, Rice J, Reich T and Morton NE. A defense of path analysis in genetic epidemiology. American Journal of Human Genetics 35:733-756, 1983.
87. Lalouel JM, Rao DC, Morton NE and Elston RC. A unified model for complex segregation analysis. American Journal of Human Genetics 35:816-826, 1983.
88. Rao DC, Lalouel JM, Suarez BK, Schonfeld G, Glueck CJ and Siervogel RM. A genetic study of hyperalphalipoproteinemia. American Journal of Medical Genetics 15:195-203, 1983.
89. Darlu P, Lalouel JM, Henrotte JG and Rao DC. A genetic study of red blood cell zinc concentrations in man. Human Heredity 33:311-318, 1983.
90. Lalouel JM, Darlu P, Henrotte JG and Rao DC. Genetic regulation of plasma and red blood cell magnesium concentrations in man. II. Segregation analysis. American Journal of Human Genetics 35:938-950, 1983.
91. McGue M, Gottesman II and Rao DC. The transmission of schizophrenia under a multifactorial threshold model. American Journal of Human Genetics 35:1161-1178, 1983.
92. Laskarzewski PM, Glueck CJ and Rao DC. Family resemblance for plasma lipids and lipoprotein concentrations in Blacks: Cincinnati Lipid Research Clinic Family Study. Arteriosclerosis 4:65-69, 1984.
93. Rao DC, Province MA, Wette R and Glueck CJ. "The role of path analysis in coronary heart disease research" In: Genetic Epidemiology of Coronary Heart Disease: Past, Present, and Future, (eds. DC Rao, RC Elston, LH Kuller, M Feinleib, C Carter, and R Havlik), Alan R. Liss, Inc., New York, pp 193-212, 1984.
94. Glueck CJ, Laskarzewski PM, Morrison JA, Khoury P, Kelly K, Mellies MJ and Rao DC. "Discussion: Cincinnati Lipid Research Clinic" In: Genetic Epidemiology of Coronary Heart Disease: Past, Present, and Future, (eds. DC Rao, RC Elston, LH Kuller, M Feinleib, C Carter, and R Havlik), Alan R. Liss, Inc., New York, pp 149-154, 1984.
95. Rao DC, Elston RC, Kuller LH, Feinleib M, Carter C and Havlik R (Eds.). Genetic Epidemiology of Coronary Heart Disease: Past, Present, and Future, Alan R. Liss, Inc., New York. 1984.
96. Sharma K, Byard PJ, Russell JM and Rao DC. A family study of anthropometric traits in a Punjabi community: I. Introduction and familial correlations. American Journal of Physical Anthropology 63:389-396, 1984.
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100. Rao DC, McGue M, Wette R and Glueck CJ. "Path analysis in genetic epidemiology" In: Human Population Genetics: The Pittsburgh Symposium, (ed. A. Chakravarti), Van Nostrand Reinhold Company, Inc., Stroudsburg, PA, pp 35-81, 1984.
101. Sharma K, Byard PJ and Rao DC. Commingling in the distribution of fat related measures in Punjabi families. Human Heredity 34:278-284, 1984.
102. Glueck CJ, Laskarzewski PM, Rao DC and Morrison JA. Familial aggregation of coronary risk factors. In: Coronary Heart Disease, (eds. W Connor & D Bristow), Lippincott Co. 1984.
103. Poosha DVR, Byard PJ, Satyanarayana M, Rice JP and Rao DC. Family resemblance for cranio-facial measurements in Velanti Brahmins from Andhra Pradesh, India. American Journal of Physical Anthropology 65:15-22, 1984.
104. McGue M, Wette R and Rao DC. Evaluation of path analysis through computer simulation: Effect of incorrectly assuming independent distribution of familial correlations. Genetic Epidemiology 1:255-269, 1984.
105. Barbosa CAA, Morton NE, Wette R, Rao DC and Krieger H. Race, height, and blood pressure in Northeastern Brazil. Social Biology 30:211-217, 1984.
106. Laskarzewski PM, Rao DC and Glueck CJ. The Cincinnati Lipid Research Clinic Family Study: Analysis of commingling and family resemblance for fasting blood glucose. Genetic Epidemiology 1:341-355, 1984.
107. McGue M, Gottesman II and Rao DC. Resolving genetic models for the transmission of schizophrenia. Genetic Epidemiology 2:99-110, 1985.
108. Province MA and Rao DC. Path analysis of family resemblance with temporal trends: Applications to height, weight, and quetelet index in Northeastern Brazil. American Journal of Human Genetics 37:178-192, 1985.
109. Lalouel JM, LeMignon L, Simon M, Fauchet R, Bourel M, Rao DC and Morton NE. Genetic analysis of idiopathic hemochromatosis using both qualitative (disease status) and quantitative (serum iron) information. American Journal of Human Genetics 37:700-718, 1985.
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- and Rifkind BM. The Collaborative Lipid Research Clinics Family Study: Biological and cultural determinants of familial resemblance for plasma lipids and lipoproteins. Genetic Epidemiology 2:227-254, 1985.
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### **13. Abstracts, presentations, and other publications**

1. Detection of inbreeding. Presented at the International Symposium on Human Genetics, held at Waltair, India, 1970
2. Complex genetic correlations through path diagrams. Proceedings 24th Annual Meeting of the Indian Society of Agricultural Statistics, Madras, India, 1971.
3. Gene frequency and its importance. Proceedings of the Symposium on Genetical Demography, Indian Science Congress Association, Bangalore, India, 1971.
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5. Path analysis of familial correlations: Theory and applications. Presented at the 25th Anniversary Meeting of the American Society of Human Genetics, held at Atlanta, Georgia, 1973.
6. Resolution of cultural and biological inheritance by path analysis. Presented at the 27th Anniversary Meeting of the American Society of Human Genetics, held at Baltimore, 1975.
7. Path analysis of lipoproteins in nuclear families. Presented at the 5th International Congress of Human Genetics, held in Mexico City, 1976.
8. Characteristics of a heterogeneity test in human linkage. Presented at Linkage Meeting, Winnipeg, 1977.
9. Path analysis. Presented at Statistical Methods in Human Genetics, Chapel Hill, NC, April 1978.
10. Path analysis of family resemblance. Presented at the Hawaiian Society of Multivariate Experimental Psychology, May, 1978.
11. A maximum likelihood map of chromosome 1. Presented at 5th International Meeting on Human Gene Mapping, Edinburgh, Scotland, 1979.
12. Analysis of family resemblance I. Path analysis under mixed homogamy. Technical Report No. 3, Population Genetics Laboratory, University of Hawaii, Honolulu, 1979.
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14. Path analysis under generalized assortative mating. Presented at the 30th Annual Meeting of the American Society of Human Genetics, Minneapolis, 1979.
15. Cultural and genetic determinants of plasma cholesterol and triglyceride. Presented at the American Heart Association Meeting, 1981.
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22. The role of path analysis in coronary heart disease research. Presented at a workshop on Genetic Epidemiology of Coronary Heart Disease: Past, Present, and Future, St. Louis, August, 1983.
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25. Demonstration of a common major gene with pleiotropic effects on immunoglobulin E levels and allergy. Borecki IB, Rao DC, Lalouel JM, McGue M and Gerrard JW. Presented at American Society of Human Genetics, Meeting, October, 1985, Salt Lake City, UT; American Journal of Human Genetics, 37:189A, 1985.
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  137. Rankinen T, Pérusse L, An P, Rice T, Chagnon YC, Gagnon AS, Leon AS, Skinner JS, Wilmore JH, Rao DC, Bouchard C. Genomic scan for exercise stroke volume and cardiac output in the HERITAGE Family Study. The American College of Sports Medicine Annual Meeting, Baltimore, MD, June, 2001.
  138. St. Amand J, Skinner J, Bouchard C, Rankinen T, Wilmore J, and Rao DC. Familial resemblance in training responses of skeletal muscle UCP2 and enzyme activities. The American College of Sports Medicine Annual Meeting, Baltimore, MD, June 2, 2001.
  139. An P, Borecki IB, Pérusse L, Gagnon J, Rice T, Rankinen T, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC. Race differences in the pattern of familial aggregation for exercise heart rate, systolic blood pressure, and rate-pressure product in response to 20-week endurance exercise training in the HERITAGE Family Study. Sixteenth Scientific Meeting of the American Society of Hypertension, May 15-19, 2001, Hyatt Regency at Embarcadero Center, San Francisco, California.
  140. Feitosa MF, Hong Y, Rice T, Borecki IB, Rankinen T, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC. Familiality between free fatty acids and insulin sensitivity before and after 20-weeks exercise training, the HERITAGE Family Study. Submitted to 10<sup>th</sup> Conference of the International Genetic Epidemiology Society, Garmisch-Partenkirchen, Germany, September, 2001.
  141. Jacobson P, Ukkola O, Buffington C, Rankinen T, Leon AS, Rao DC, Skinner JS, Wilmore JH, Cowan GSM, Sjöström L, and Bouchard C. Melancortin 4 receptor sequence variations and associations with morbid obesity: The Swedish obese subjects, the HERITAGE Family Study and a Memphis cohort. Submitted to NAASO Annual Meeting, Quebec City, October 7-10, 2001.

142. An P, Borecki IB, Rankinen T, Perusse L, Leon AS, Skinner JS, Wilmore JH, Bouchard C and Rao DC. Complex segregation analysis of exercise heart rate and blood pressure at baseline and in response to 20 weeks of endurance training: The HERITAGE Family Study. The American Society of Human Genetics 51<sup>st</sup> Annual Meeting, October 12-16, 2001, San Diego, California. American Journal of Human Genetics 69(4):383, 2001.
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144. Lynch AI, Arnett DK, Atwood LD, Devereux RB, Kitzman DW, Hopkins PN, Oberman A, and Rao DC. A genome scan of aortic root diameter in hypertensive African Americans and Whites in the HyperGEN Study. Abstract submitted to 51<sup>st</sup> Annual Meeting of the American Society of Human Genetics, San Diego, California, October 12 – 16, 2001.
145. de Simone G, Kitzman DW, Palmieri V, Liu JE, Bella JN, Oberman A, Hopkins PN, Rao DC, Celentano A, and Arnett DK. Diastolic as well as systolic function is subnormal in hypertensives with inappropriate left ventricular hypertrophy: The HyperGEN Study. Abstract submitted to American Heart Association Scientific Sessions, November 11-14, 2001, Anaheim, CA.
146. de Simone G, Palmieri V, Arnett DK, Pasanisi F, Oberman A, Bella JN, Kitzman DW, Hopkins PN, Rao DC, Devereux RB. Influence of measures of body build on relation of inappropriate left ventricular mass to prevalent cardiovascular morbidity in the HyperGEN cohort. Abstract submitted to American Heart Association Scientific Sessions, November 11-14, 2001, Anaheim, CA.
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149. Hong Y, An P, S. John Weisnagel, Rice T, Rankinen T, Gagnon J, Leon AS, Skinner JS, Wilmore JH, Bergman RN, Bouchard C, and Rao DC. Genome-wide linkage analysis for MINMOD dependent traits in a sedentary Black and White population: The HERITAGE Family Study. Asia-Pacific Scientific Forum by American Heart Association – The Genomics Revolution: Bench to Bedside to Community and the 42<sup>nd</sup> Annual Conference on Cardiovascular Disease Epidemiology and Prevention, April 23-26, 2002, Honolulu, Hawaii. P130.
150. Feitosa MF, Borecki IB, Rankinen T, Despres JP, Leon AS, Skinner JS, Wilmore JH, Province MA, Bouchard C, Rao DC. A QTL influencing triglyceride levels resides on chromosome 13: the HERITAGE family study. Presented at the 52<sup>nd</sup> Annual meeting of the American Society of Human Genetics, Baltimore, MD, October 15-19, 2002. Am J Hum Genet 71(4):1571.
151. Borecki IB, Feitosa MF, Rankinen T, Despres JP, Leon AS, Skinner JS, Wilmore JH, Bouchard C, Rao DC, Province MA. Genomewide linkage analysis of apo-AI and apo B in the sedentary state and the response to training: the HERITAGE family study. Presented at the 11<sup>th</sup> Annual International

- Genetic Epidemiologic Society Meeting, New Orleans, LA, November 15-16, 2002. *Genet Epidemiol* 23(3):269.
152. Borecki IB, Feitosa MF, Kraja A, Province MA. Data mining of QTL by covariate interactions influencing BMI to identify linked subgroups using a tree linkage approach. Presented at the 11<sup>th</sup> Annual International Genetic Epidemiologic Society Meeting, New Orleans, LA, November 15-16, 2002. *Genet Epidemiol* 23(3):269.
  153. Agno FS, Chinali M, Bella JN, Liu JE, Arnett DK, Kitzman DW, Oberman A, Hopkins PN, Rao DC, Devereux RB. Prevalence and correlates of Aortic Valve Sclerosis in hypertensive adults: the HyperGEN study. Presented at the 18<sup>th</sup> annual American Society of Hypertension Meeting, New York, NY, May 15, 2003.
  154. Skinner JS, Gaskill SE, Rankinen T, Leon AS, Wilmore JH, Rao DC, Bouchard C. Critical Evaluation of ACSM guidelines on prescribing exercise intensity for “Quite Unfit” people: Evidence from the HERITAGE Family Study. Presented at the ACSM meeting, Indianapolis, IN, June, 2004.
  155. Lakka H-M, Lakka TA, Rankinen AS, Skinner JS, Wilmore JH, Rao DC, Bouchard C. TNF- $\alpha$  gene G-308A polymorphism and body fatness in the HERITAGE Family Study. Presented at the 40<sup>th</sup> annual meeting of the European Association for the Study of Diabetes, Munich, Germany, September 5-9, 2004
  156. Lakka TA, Lakka H-M, Rankinen T, Leon AS, Rao DC, Skinner JS, Wilmore JH, Bouchard C. Exercise training reduces C-reactive protein levels in sedentary healthy adults: the HERITAGE Family Study. Presented at the AHA Meeting, New Orleans, LA, November, 2004
  157. Li ZB, Devereux RB, Liu JE, Kitzman DW, Oberman A, Hopkins P, Rao DC, Arnett DK. Prevalence and Correlates of Aortic Regurgitation in Hypertensive Patients: The HyperGen Study. To be presented at the American Society of Echocardiography in 2005.
  158. Li ZB, Bella J, Cai L, Kitzman DW, Oberman A, Hopkins P, Rao DC, Arnett DK, Devereux RB. Gender Difference in the Relationship of Left Ventricular Mass Index and Systolic Function in Hypertensive Patients: The HyperGEN Study. Presented at the American Heart Association Scientific Sessions, Dallas, Texas, Nov 13-16, 2005.
  159. Ardern AI, Katzmarzyk PT, Rankinen T, Skinner JS, Wilmore JH, Rao DC, Leon AS, and Bouchard C. NCEP ATP III Cholesterol Guideline Eligibility in Response to 20 weeks of Aerobic Exercise Training: The HERITAGE Family Study. Presented at the CDC’s Meeting on Physical Activity and Public Health, Atlanta, Ga, April 17-20, 2006.
  160. Blackburn P, Lamarche B, Rankinen T, Leon AS, Rao DC, Skinner JS, Wilmore JH, Bouchard C and Despres JP. Effects of endurance exercise training on electrophoretic characteristics of LDL particles: The HERITAGE Family Study. To be presented at the Canadian Cardiovascular Congress, Vancouver, BC in October 2006.
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Uncorrelated with C-Reactive Protein (hsCRP) and Blood Pressure: The HERITAGE Family Study. To be presented at the American Heart Association Scientific Meeting in November 2006.

162. Leon AS, Wilmore JH, Ewy GA, Rankinen T, Rao DC, Skinner JS and Bouchard C. Endurance Exercise Training Reduces Lp-PLA2 in Young White Adults: The HERITAGE Family Study. To be presented at the American Heart Association Scientific Meeting in November 2006.
163. de Simone G, Bella JN, Cai L, Kitzman DW, Oberman A, Hopkins P, Rao DC, Arnett DK and Devereux RB. Relation of Left Ventricular Geometry and Isovolumetric Relaxation Time in Hypertensive Patients: The HyperGEN Study. Presented at the American Society of Echocardiography Scientific Sessions 2006 (June 2006).
164. Devereux RB, Cooper R, Weder A, Seto TB, Hanis C, Mosley Jr. TH, Rao DC and Arnett DK. Does Left Ventricular Mass Differ Between Apparently Normal Adults of Different Ethnicities? The Family Blood Pressure Program. To be presented at the American Heart Association Scientific Meeting in November 2006.
165. Bella JN, Tang W, Kraja A, Rao DC, Hunt SC, Miller M, Palmieri V, Roman MJ, Kitzman DW, Oberman A, Devereux RB and Arnett DK. Genetic linkage of aortic valve sclerosis and mitral annular calcification: The HyperGEN Study. To be presented at the American Heart Association Scientific Meeting in November 2006.
166. Blackburn P, Lamarche B, Rankinen T, Leon AS, Rao DC, Skinner JS, Wilmore JH, Bouchard C and Despres JP. Effects of endurance exercise training on electrophoretic characteristics of LDL particles: The HERITAGE Family Study. Oral presentation at the Canadian Cardiovascular Congress, Vancouver (British Columbia). *Canadian Journal of Cardiology* 2006; 22 (supplement D):159D.

## 14. Research Support

### **a. Current support**

- (1) Principal Investigator, “The Family Blood Pressure Program (Program Data Center)” 09/05/95-08/31/09, Current Year DC \$389,004 NIH Grant.
- (2) Principal Investigator, (Subcontract) “Genetic Epidemiology of Blood Pressure Intervention,” 09/30/02 – 07/14/09, Current year DC \$150,465, NIH Grant.
- (3) Principal Investigator, “A Research Project in Genetic Epidemiology,” 07/01/78-08/31/09, Current year DC \$180,000, NIH Grant.
- (4) Principal Investigator (Subcontract), “HERITAGE Family Study Phase 4” (Rao, PI), 7/1/92 – 1/31/09, Current year DC \$110,000. NIH Grant
- (5) Principal Investigator (Subcontract), “ECHO: Genetics of Left Ventricular Hypertrophy – Data Coordinating Center” (Arnett, P.I.), 8/10/96 – 6/30/11, Current year DC \$28,796, NIH Grant
- (6) Principal Investigator “Genetic Epidemiology of Cardiovascular Disease and Risk Factors” 8/1/06-6/30/10, Current Year DC \$173,489 NIH Grant.
- (7) Co-Investigator “Washington University Institute of Clinical Sciences (Biostatistics and Ethics Core).” (Polonsky, P.I.), 9/30/07 – 5/31/12, Current year DC \$559,911, NIH Grant.
- (8) Principal Investigator (Subcontract), “Fine Mapping of Hypertension Genes Detected by Admixture in the FBPP” 7/1/97-6/30/12, Current year DC \$20,000, NIH Grant
- (9) Co-Investigator “Genome-Wide Association Analysis in Essential Hypertension” (Gu, P.I.), 7/1/07-6/30/10, Current year \$50,000, NIH Grant.
- (10) Co-Director “Genetic Basis of Inflammatory Airway Disease” (Cole S, P.I.), 10/01/07 – 9/30/12, Current year DC \$1,833,097 NIH Grant

### **b Recent Past Support**

- (1) Principal Investigator, “HERITAGE: Genetics, Exercise & Risk Factors.” 07/01/92-08/31/06, Current Year DC \$280,264, NIH Grant.
- (2) Principal Investigator, “Family and Genetic Studies of Cardiovascular Disease-Coordinating Center,” 05/01/92-04/30/96, Total DC, \$1,368,281, NIH Grant.
- (3) Core Director, Biostatistical Consultation Facility (Core), CRC on Epidemiological Genetics and Family Studies, (C.R. Cloninger, CRC PI), 08/01/96-07/31/01, Total DC for the CRC, \$3,151,609, NIMH Grant.
- (4) Principal Investigator, “The Genetics of Obesity and its Comorbidity: The Québec Family Study,” 10/01/98-09/30/03, Total subcontract \$39,295, Medical Research Council of Canada/Laval University Grant.