

**Richard Stanley Cooper, MD**

708-327-9010

[rcooper@lumc.edu](mailto:rcooper@lumc.edu)

## PROFILE

Richard Cooper is a physician epidemiologist with an interest in cardiovascular disease. Dr. Cooper has experience with patient registries, community surveys, and genetic epidemiology.

## MAJOR RESEARCH INTERESTS

- Epidemiology of cardiovascular diseases, with emphasis on black populations
- Hypertension in blacks
- Genetics of hypertension
- Racial differentials in disease and the concept of race in public health and epidemiology

## EDUCATION

|  |      |
|--|------|
| <b>Bachelor of Arts</b><br><i>University of Pennsylvania</i><br>Honors Award, Department of English<br>Seham Prize, Senior Essay | 1967 |
| <b>Doctor of Medicine</b><br><i>University of Arkansas</i><br>Faculty Gold Key   | 1971 |

## HONORS AND AWARDS

|   |                 |
|---|-----------------|
| MERIT Award<br><i>National Heart, Lung, and Blood Institute</i>                               | September, 1998 |
| Scholar<br><i>Donald W. Reynolds Cardiovascular Clinical Research Center</i>                  | 1999-2003       |
| Bernard Pimstone Memorial Lecture<br><i>University of Cape Town, Republic of South Africa</i> | 2006            |
| Alvan R. Feinstein Memorial Award<br><i>American College of Physicians</i>                    | 2007            |
| John C. Cassel Memorial Lecture<br><i>Society for Epidemiologic Research</i>                  | 2007            |

## RECENT PUBLICATIONS

1. Lyon H, Emilsson V, Hinney A, Heid IM, Lasky-Su J, Zhu X, Thorleifsson G, Gunnarsdottir S, Walters G, Thorsteinsdottir U, Kong A, Gulcher J, Hguyen TT, Scherag A, Pfeufer A, Meitinger T, Bronner G, Rief W, Soto-Quiros ME, Avila L, Klanderma B, Raby BA, Silverman EK, Weiss ST, Laird N, Ding X, Groop L, Tummi T, Isomaa B, Bengtsson Butler JL, **Cooper RS**, Fox CS, O'Donnell CJ, Vollmert C, Cledon JC, Wichmann, HE, Hebebrand J, Stefansson K, Lange C, Hirschhorn J. Association of a SNP upstream of INSIG2 with body mass index is reproduced in several but not all large cohorts. *PLoS Genetics*. 2007;3(4):e61.
2. Franco M, Kennelly JF, **Cooper RS**, Ordunez-Garcia P. La salud publica en Cuba y los objetivos del milenio. (Public health in Cuba and the millennium development goals). *J Pan Amer Health Org*. 2007;21:239-250.
3. Scuteri A, Sanna S, Chen WM, Uda M, Albai G, Strait J, Najjar S, Nagaraja R, Orru M, Usala G, Dei M, Lai S, Maschio A, Busonero F, Mulas A, Ehret GB, Fink AA, Weder AB, **Cooper RS**, Galan P, Chakravarti A, Schlessinger D, Cao A, Lakatta E, Abecasis GR. Genome-wide association scan shows genetic variants in the FTO gene are associated with obesity-related traits. *PLoS Genet*. 2007; 20;3(7):e115

4. Wen G, Wessel J, Zhou W, Ehret G, Rao F, Stridsberg M, Mahata SK, Gent P, Das M, **Cooper RS**, Chakravarti A, Zhou H, Schork NJ, O'Connor DT, Hamilton BA. An ancestral variant of secretogranin II confers regulation by PHOX2 transcription factors and association with hypertension. *Hum Mol Genetics*. 2007;16:1752-64.
5. **Cooper RS**, Tayo B. Geographic patterns of hypertension: A global perspective. In: J. L. Izzo and H. R. Black, Eds. *Hypertension Primer*. American Heart Association, 2007.
6. Franco M, Ordunez P, Caballero B, Lazo M, Bernal JL, Guallar E, **Cooper R**. Impact of energy intake, physical activity and weight loss on cardiovascular disease and diabetes mortality in Cuba, 1980-2005. *Am J Epidemiol* 2007;166:1374-1380.
7. Bolnick DA, Fullwiley D, Duster T, **Cooper RS**, Fujimura JH, Kahn J, Kaufman JS, Marks J, Morning A, Nelson A, Ossorio P, Reardon J, Reverby SM, TallBear K. The science and business of genetic ancestry testing. *Science* 2007;318:399-400.
8. Spirin V, Schmidt S, Pertsemlidis A, Cohen J, **Cooper RS**, Sunyaev SR. Common SNPs act in concert to affect plasma levels of HDL-cholesterol. *Am J Hum Genetics*. 2007;81:1298-1303
9. Zhu X, **Cooper RS**. Admixture mapping identifies association of the VNN1 gene with hypertension. *PLoS One*. 2007;11:e1244
10. Luke A, Forester T, Wilks R, Schoeller D, **Cooper RS**. Activity, adiposity and weight change in Jamaican adults. *West Indies Med J* 2007;56:398-403.
11. Cappuccio FP, Kerry SM, Adeyemo A, Luke A, Albert G.B. Amoah AGB, Bovet P, Myles D, Connor MD, Terrence Forrester T, Jean-Pierre Gervasoni J-P Kaki GK, Plange-Rhule J, Thorogood M, **Cooper RS**. Body size and blood pressure: An analysis of Africans and the African diaspora. *Epidemiology* 2008;19:38-46.
12. Kaufman JS, **Cooper RS**. Race in epidemiology. New tools, old problems. *Ann Epidemiol* 2008;18:119-123.
13. Zhu X, Li S, **Cooper RS**, Elston RC. A unified association analysis approach for family and unrelated samples to correct for population stratification. *Am J Hum Genetics*. 2008;82:352-365.
14. Durazo-Arvizu R, Barquera S, Lazo M, Franco M, **Cooper RS**. Cardiovascular disease surveillance in Mexicans and Mexican Americans; A tale of two countries. *J Pan Amer Health Org* . 2008;23:119-124.
15. Ordunez P, Barcelo A, Bernal JL, Silva LC, **Cooper RS**. Risk factors associated with uncontrolled hypertension – Findings from the baseline CARMEN survey in Cienfuegos, Cuba. *J Hypertension*. 2008;26:663-671.
16. Barquera S, Durazo-Arvizu R, Luke A, Cao G, **Cooper RS**. Hypertension in Mexico and among Mexican Americans: Prevalence and treatment patterns. *J Hum Hypertension*. 2008;22:109-115.
17. Franco M, Ordunez P, Caballero B, **Cooper RS**. Obesity reduction and its consequences: Can we learn something from the Cuban “special period”. *CMAJ*. 2008;178:1032-1034.
18. Kramer H, **Cooper R**. Nutrition and obesity studies for the management of hypertension and reducing Cardiovascular Risk. *Year in Hypertension*. 2008;243-262.
19. Durazo-Arvizu RA, Luke A, **Cooper RS**, Cao G, Dugas L, Adeyemo A, Boyne M, Forrester T. Rapid increases in obesity in Jamaica, compared to Nigeria and the United States *BMC Public Health*. 2008;23133.
20. Markham DW, Dries DL, King LP, Yancy CW, Peshock RM, DuWayne D, **Cooper RS**, Drazner MH. Blacks and whites have a similar prevalence of reduced left ventricular ejection fraction in the general population: the Dallas Heart Study. *Am Heart J* 2008;155:876-882.
21. **Cooper RS**, Ordunez P, Ferrer MDI, Munoz JLB, Espinosa-Brito A. Cardiovascular disease and associated risk factors in Cuba: Prospects for prevention and control. *Am J Public Health* 2006;96:94-101.

22. Walsh EC, Sabeti P, Hutcheson HB, Fry B, Schaffner SF, de Bakker PI, Varilly PI, Palma AA, Roy J, **Cooper R**, Winkler C, Zeng Y, de The G, Lander ES, O'Brien S, Altshuler D. Searching for signals of selection in 168 genes related to immune function. *Hum Genetics* 2006;119:92-102.
23. Rice T, **Cooper RS**, Wu X, Bouchard C, Rankinen T, Rao DC, Jaquish CE, Fabsitz RR, Province MA. Meta-Analysis of Genome-Wide Scans for Blood Pressure in African American and Nigerian Samples The National Heart, Lung, and Blood Institute GeneLink Project. *Am J Hypertens* 2006;19:270-274.
24. Wu X, Kan D, Province M, Quertermous T, Rao DC, Chang C, Mosley TH, Curb D, Boerwinkle E, **Cooper RS**. An updated meta-analysis of genome scans for hypertension and blood pressure in the NHLBI Family Blood Pressure Program (FBPP). *Am J Hypertension*. 2006;19:122-7.
25. Kotowski IK, Pertsemlidis A, **Cooper RS**, Luke A, Cohen J, Hobbs HH. A spectrum of PCSK9 alleles contributes to plasma levels of LDL-cholesterol. *Am J Hum Genetics*. 2006;78:410-22.
26. Franco M, **Cooper R**, Ordunez P. Make sure health policies work. (correspondence) *Science* 2006;311:1098.
27. Hollier JM, Martin DF, Bell DM, Li JL, Chirachanchai MG, Menon DV, Leonard D, Wu X, **Cooper RS**, McKenzie C, Victor RG, Auchus RJ. Epithelial sodium channel allele T594M is not associated with blood pressure or blood pressure response to amiloride. *Hypertension*. 2006;47:428-33.
28. Chang YP, Kim JD, Schwander K, Rao DC, Miller MB, Weder AB, **Cooper RS**, Schork NJ, Province MA, Morrison AC, Kardina SL, Quertermous T, Chakravarti A. The impact of data quality on the identification of complex disease genes: experience from the Family Blood Pressure Program. *Eur J Hum Genet*. 2006;14 :469-477
29. Herbert A, Gerry NP, McQueen M, Heid IM, Pfeufer A, Illig T, Wichmann H-E, Meitiner T, Hunter D, Hu F, Colditz G, Heberbrand J, Koberwitz K, Zhu X, **Cooper R**, Ardlie K, Lyon H, Hirschhorn J, Laird NM, Lenburg L, Lange C, Christman MF. A common genetic variant is associated with adult and childhood obesity. *Science* 2006;312:279-283.
30. Ordunez-Garcia P, Munoz JLB, Pedraza D, Espinoza-Brito A, Silva LC, **Cooper RS**. Hypertension treatment and control in Cienfuegos, Cuba. *J Hypertension* 2006;24:845-849
31. Luke A, Durazo-Arvizu R, Cao G, Adeyemo A, Wu X, Tayo B, **Cooper RS**. Positive association between resting energy expenditure and weight change in a lean adult population. *AJCN* 2006;83:1076-1081.
32. Kramer H, Saranathan A, Luke A, Durazo R, Hou S, **Cooper R**. Increasing BMI and obesity in the incident end-stage renal disease population. *JASN* 2006;17:1453-1459.
33. **Cooper RS**, Kennelly JF, Ordunez-Garcia P. Health in Cuba. *Int J Epidemiol*. 2006;35:817-824.
34. Sha Q, Zhu X, Zuo Y, **Cooper RS**, Zhang S. A combinatorial method for detecting a set of interacting loci associated with a complex trait. *Ann Hum Genet*. 2006;70:677-692.
35. Fejerman L, Wu X, **Cooper RS**, Adeyemo A, Luke A, Zhu X. The effect of genetic variation in angiotensinogen on serum levels and blood pressure: A comparison of Nigerians and US blacks. *J Hum Hypertension*. 2006;20:882-887.
36. Zhu X, **Cooper RS**, Tang H, Zhang S. A classical likelihood based approach for admixture mapping using EM algorithm. *Human Genetics*. 2006; 120:431-435.
37. Marshall P, Adebamowo CA, Adeyemo AA, Ogundiran TO, Strenski T, Shou J, Prewitt TE, **Cooper RS**, Rotimi C. Voluntary participation and informed consent to international genetic research. *Am J Public Health*. 2006;96:1989-1995.

38. de Bakker PIW, Brutt NP, Graham RR, Drake JA, Yelensky R, Bersaglieri T, Guiducci C, Butler J, Lyon H, Freedman ML, Zhu X, **Cooper R**, Groop LC, Haiman CA, Thomas DC, Stram DO, Kolonel LN, Henderson BE, Daly MJ, Hirschhorn JN, Altshuler D. Transferability of tag SNPs in genetic association studies in multiple populations. *Nat Genet.* 2006;38:1298-1303.
39. Lyon H, Florez JC, Bersaglieri T, Saxsena R, Winckler W, Almgren P, Lindblad U, Tuomi T, Gaudet D, Zhu X, **Cooper R**, Ardlie KG, Daly MJ, Altshuler D, Groop L, Hirschhorn JN. Common variants in the ENPP1 gene are not reproducibly associated with diabetes or obesity. *Diabetes* 2006;55:3180-3184.
40. McKenzie CA, Wu X, **Cooper RS**. Genetic determinants of hypertension. In: *The Tropical Metabolism Research Unit; 1956-2006*. Ian Randle Publishers, Kingston/Miami 2006, pp171-197.
41. Wu X, **Cooper RS**. Genetics of Hypertension. In: *Hypertension: A Companion Text to Braunwald's Heart Disease*. HA Black and WJ Elliott, Eds. W. B. Saunders 2007, pp 15-24
42. Durazo-Arvizu R, Barquera S, Franco M, Lazo M, Seuc A, Ordunez P, Palloni A, **Cooper RS**. Cardiovascular diseases mortality in Mexico, Cuba, Puerto Rico and US Hispanic populations. *CV Prev Control.* 2006;2:63-71.
43. Chang Y-P C, Liu X, Ikeda M, Kim JD, Layton M, Weder A, **Cooper R**, Boerwinkle E, Chakravarti A. Multiple essential hypertension susceptibility genes involved in renal and vascular functions on chromosome 1q. *Am J Hum Genetics.* 2007;80:263-274.
44. Boyne MS, Sargeant LA, Bennett RI, Rainford WJ, **Cooper RS**, Forrester TE. Isoprostanes, a marker of lipid peroxidation, may not be involved in the development of glucose intolerance. *Diabetes Res Clin Prac.* 2007;76:149-151.
45. Rame JE, Drazner MH, Post W, Peshock R, Lima J, Wu X, **Cooper RS**, Dries DL. Corin I555(P568) allele is association with enhanced concentric cardiac hypertrophic response to increased systemic afterload. *Hypertension.* 2007;49:857-864.
46. Boyne MS, Sargeant LA, Bennett FI, Wilks RJ, **Cooper RS**, Forrester TE. Isoprostanes, a marker of oxidative stress, may not be involved in the development of glucose intolerance. *Diabetes Res Clin Practice.* 2007;76:149-151.
47. Campbell CD, Lyon HN, Nemesh J, Drake JA, Tuomi T, Gaudet D, Zhu X, **Cooper RS**, Ardlie KG, Groop LC, Hirschhorn JN. Association studies of body mass index and type 2 diabetes in the neuropeptide Y pathway: a possible role for NPY2R as a candidate gene for type 2 diabetes in men. *Diabetes.* 2007;56:1460-1467.
48. **Cooper RS**. Using public health indicators to measure the success of hypertension control. *Hypertension.* 2007;49:773-774.
49. Hicks C, Zhu X, Luke A, Kan D, Adeyemo A, Wu X, **Cooper RS**. A genome-wide scan of loci linked to serum adiponectin in two populations of African descent. *Obesity.* 2007;15:1207-1214.
50. Lyon H, Emilsson V, Hinney A, Heid IM, Lasky-Su J, Zhu X, Thorleifsson G, Gunnarsdottir S, Walters G, Thorsteinsdottir U, Kong A, Gulcher J, Hguyen TT, Scherag A, Pfeufer A, Meitinger T, Bronner G, Rief W, Soto-Quiros ME, Avila L, Klanderma B, Raby BA, Silverman EK, Weiss ST, Laird N, Ding X, Groop L, Tummi T, Isomaa B, Bengtsson Butler JL, **Cooper RS**, Fox CS, O'Donnell CJ, Vollmert C, Celedon JC, Wichmann, HE, Hebebrand J, Stefansson K, Lange C, Hirschhorn J. Association of a SNP upstream of INSIG2 with body mass index is reproduced in several but not all large cohorts. *PLoS Genetics.* 2007;3(4):e61.

**RECENT EXPERIENCE**

Anthony B. Traub Professor and Chairman  
*Department of Epidemiology and Preventive Medicine*  
*Loyola University Stritch School of Medicine*

1989-

Adjunct Professor  
*Department of Preventive Medicine*  
*Northwestern University Medical School*

1995-