CURRICULUM VITAE

Name: James G. Wilson, M.D.

Date of Appointment to UMC Faculty: 07-01-86

Title: Professor of Physiology and Biophysics

Date and Place of Birth: September 17, 1950 - Jackson, MS

Marital Status: Married to Jennifer Rogow Wilson

Educational Background:

College: 1968-1971, Rice University, Houston, Tx (no degree)

Professional School of Graduate Study: University of Mississippi School of Medicine, M.D., 1975

Postgraduate Training: Intern in Medicine, Duke University Hospital, Durham, NC, 1975-1976

Junior Assistant Resident in Internal Medicine, Duke University Hospital, 1976-1977

Fellow in Rheumatology, Duke University Hospital, 1977-1979

Fellow in Rheumatology, Robert B. Brigham Division of Brigham and Women's Hospital, Boston, MA, 1979-1982

Military Service: Air National Guard of the United States, 1984-1992; Rank at separation: Lt. Colonel

Honors and Awards: Alpha Omega Alpha - 1975
Arthritis Foundation Fellow, 1980-1983
New Investigator Award from the National Institutes of Health, 1983-1986

Specialty Certification: American Board of Internal Medicine,
Certificate No. 068298

Board Certification in Rheumatology,
1986

Licensure: Mississippi License Registration No. 07382

Professional Memberships:

American Federation for Medical Research
Southern Society for Clinical Investigation

Academic Appointments: Instructor of Medicine, Harvard Medical School and the Brigham and Women's Hospital, Boston, MA, 1982-1985

Assistant Professor of Medicine, Harvard Medical School and the Brigham and Women's Hospital, Boston, MA, 1985-1986

Assistant Professor of Medicine, 1986-1997
Associate Professor of Medicine, 1997- 2004
Professor of Medicine, 2004- Present
Professor of Physiology and Biophysics, 2010-Present
University of Mississippi Medical School
Jackson, MS

Administrative Appointments:

- Compliance Officer, G.V. (Sonny) Montgomery V.A. Medical Center, 12/98-9/02:
- Chair, Genetics Committee, Jackson Heart Study, 2001 – Present.
- Chair, VAMC Institutional Review Board, Jan. 2003 - 2010.
- Chair, VAMC Medications Use Evaluation Committee, 1990 - 2005.
- Director of Clinical and Population Studies, University of Mississippi Medical Center, 2010-2013.
- Steering Committee Member and Chair, Publications Committee, NHLBI Candidate Gene Association Resource (CARe), 2008-2011.
- Steering Committee Member and Co-chair, Publications Committee, NHLBI Exome Sequencing Project (ESP), 2009-2012.
- Steering Committee Member, NIDDK Type 2 Diabetes Genetic Exploration by Next Generation Sequencing in Multi-ethnic Samples (T2D-GENES), 2009-Present.
- Steering Committee Member, Cohorts for Heart and Aging Research in Genetic Epidemiology (CHARGE), 2013-Present.

- Steering Committee Chair, NHLBI Trans-omics for Precision Medicine (TOPMed) Project, 2015-Present.

Teaching:

- Established and directed Cellular and Molecular Immunology course for Rheumatology faculty and fellows, involving approximately 1.5 hours lecture/discussion each week, 2003-2007.
- Routine lectures in the ICM course, M2 Pathology course, M3 Medicine block, resident updates, and MKSAP reviews, 1986-2010.
- Attending Physician, VA Internal Medicine and Rheumatology, 1986-2010.
- M1 Physiology Lectures on Blood Cells, Hematopoiesis, and Immunology/Inflammation, 2010-Present.

Publications:

1. Brown WM, Hadler NM, Sams WM, Wilson J, Snyderman R. 1979. Rheumatoid nodulosis: sporadic and familial occurrence. J. Rheumatol. 6:286-92.

2. Sams WM, Jarizzo JL, Snyderman R, Jegasathy BV, Ward FE, Weinder M, Wilson JG, Yount WJ, Dillard SB. 1979. Chronic mucocutaneous candidiasis: immunologic studies of three generations of a single family. Am. J. Med. 67:948-59.

3. Wilson JG, Wong WW, Schur PH, Fearon DT. 1982. Mode of inheritance of decreased C3b receptors on erythrocytes of patients with systemic lupus erythematosus. N. Engl. J. Med. 307:981-86.

4. Wilson JG, Tedder TF, Fearon DT. 1983. Characterization of human T lymphocytes that express the C3b receptor. J. Immunol. 131:684-89.

5. Wong WW, Wilson JG, Fearon DT. 1983. Genetic regulation of a structural polymorphism of human C3b receptor. J. Clin. Invest. 72:685-93.

6. Wilson JG, Fearon DT, Stevens RL, Seno N, Austen KF. 1984. Inhibition of the function of activated properdin by squid chondroitin sulfate E glycosaminoglycan and murine bone marrow-derived mast cell chondroitin sulfate E proteoglycan. J. Immunol. 132:3058-63.

7. Wilson JG, Fearon DT. 1984. Current Comment: Altered expression of complement receptors as a pathogenetic factor in systemic lupus erythematosus. Arthritis Rheum. 27:1321-28.

8. Roberts WN, Wilson JG, Wong W, Jenkins DE Jr., Fearon DT, Austen KF,

Nicholson-Weller A. 1985. Normal number and function of CR1 on affected erythrocytes of patients with paroxysmal nocturnal hemoglobinuria. J. Immunol. 134:512-17.

9. Wilson JG, Jack RM, Wong WW, Schur PH, Fearon DT. 1985. Autoantibody to the C3b/C4b receptor and absence of this receptor from erythrocytes of a patient with systemic lupus erythematosus. J. Clin. Invest. 76:182-190.

10. Wilson JG, Ratnoff WD, Schur PH, Fearon DT. Decreased expression of the C3b/C4b receptor (CR1) and the C3d receptor (CR2) on B lymphocytes and of CR1 on neutrophils of patients with systemic lupus erythematosus. Arhtritis Rheum. 29:739-47.

11. Wilson JG, Murphy EE, Wong WW, Klickstein LB, Weis JH, Fearon DT. 1986. Identification of a restriction fragment length polymorphism by a CR1 cDNA that correlates with the number of CR1 on erythrocytes. J. Exp. Med. 164:50-59.

12. Jouvin M-H, Wilson JG, Bourgeois P, Fearon DT, Kazatchkine M. 1986. Decreased expression of C3b receptor (CR1) on erythrocytes of patients with sytemic lupus erythematosus contrasts with its normal expression in other systemic diseases and does not correlate with the occurrence or severity of SLE nephritis. Complement 3:99-96.

13. Wong WW, Kennedy CA, Bonaccio ET, Wilson JG, Klickstein LB, Weis JH, Fearon DT. 1986. Analysis of multiple restriction fragment length polymorphisms of the gene for the human complement receptor Type I: duplication of genomic sequences occurs in association with a high molecular weight receptor allotype. J. Exp. Med. 164:1531-1546.

14. Wilson JG, Wong WW, Murphy EE III, Schur PH, Fearon DT. Deficiency of the C3b/C4b receptor (CR1) of erythrocytes in systemic lupus erythematosus: analysis of the stability of the defect and of a restriction fragment length polymorphism of the CR1 gene. J. Immunol. 138:2706-2710.

15. Klickstein LB, Wong WW, Smith JA, Weis JH, Wilson JG, Fearon DT. 1987. Human C3b/C4b receptor (CR1): Demonstration of long homologous repeating domains that are composed of the short consensus repeats characteristic of C3/C4 binding proteins. J. Exp. Med. 165:1095-1112.

16. Wilson JG, Andriopoulos NA, Fearon DT. 1987. CR1 and the cell membrane proteins that bind C3 and C4: a basic and clinical review. Immunol. Res. 6:192-209.

17. Wong WW, Cahill JM, Rosen MD, Kennedy CA, Bonaccio ET, Morris MJ, Wilson JG, Klickstein LB, Fearon DT. 1989. Structure of the human CR1 gene: molecular basis of the structural and quantitative polymorphisms and

identification of a new CR1-like allele. J. Exp. Med. 169:847-863.

18. Fearon DT, Klickstein LB, Wong WW, Wilson JG, Moore FD Jr., Weis JJ, Weis JH, Jack RM, Carter RH, Ahearn JA. 1989. Immunoregulatory functions of complement: structural and functional studies of complement receptor type 1 (CR1; CD35) and type 2 (CR2; CD21) in Biochemistry of the Acute Allergic Reactions: Fifth International Symposium, pp. 211-220, Alan R. Liss, Inc.

19. Shiota Y, Wilson JG, Harjes K, Zanjani ED, Tavassoli, M. 1993. A novel 37 kD adhesive membrane protein from cloned murine bone marrow stromal cells and cloned murine hematopoietic progenitor cells. Blood 82:1436-1444.

20. Wilson JG, Tavassoli M. 1994. Microenvironmental factors involved in the establishment of erythropoiesis in bone marrow, in Molecular, Cellular, and Developmental Biology of Erythropoietin and Erythropoiesis, I.N. Rich and T.R.J. Lappin, eds. Ann. N.Y. Acad. Sci. 718:271-284.

21. Zanjani ED, Wilson J, Adams JG. 1994. Mehdi Tavassoli, MD 1933-1993. Exp. Hematol. 23:7.

22. Tavassoli M, Hardy CL, Wilson JG. 1995. Hemopoietic stem cell homing: potential modulation by cytokines, in Hematopoietic Stem Cells: Biology and Therapeutic Applications, pp. 125-149, D. Levitt and R. Mertelsmann, eds. Marcel Dekker, Inc., New York.

23. Shiota Y, Wilson JG, Marukawa M, Ono T, Nakai T, Kaji M. 1996. Soluble intercellular adhesion molecule-1 (ICAM-1) antigen in sera of bronchial asthmatics. Chest 109:94-99.

24. Wu J, Wilson J, He J, Xiang L, Schur PH, Mountz JD. 1996. Fas ligand mutation in a patient with systemic lupus erythematosus and lymphoproliferative disease. J. Clin. Invest. 98:1107-1113.

25. Wilson JG. 1997. Adhesive interactions in hemopoesis. Acta Haematol. 97:6-12.

26. Herrera AH, Xiang L, Martin G, Lewis J, Wilson JG. 1998. Analysis of complement receptor type 1 (CR1) expression on erythrocytes and of CR1 allelic markers in Caucasian and African American Populations. Clin. Immunol. Immunopathol. 87: 176-183.

27. Xiang L, Rundles JR, Hamilton DR, and Wilson JG. 1999. Quantitative alleles of CR1: coding sequence analysis and comparison of haplotypes in two ethnic groups. J. Immunol. 163: 4939-4945.

28. McMurray RW**,** Wilson JG, Bigler L, Xiang L, Lagoo A. 2000. Progesterone inhibits glucocorticoid-induced murine thymocyte apoptosis. Int. J. Immunopharmacol. 22:955-965.

29. Wilson JG, Hoff Lindquist J, Grambow SC, Crook ED, Maher JF. 2003. Non-traditional risk factors for cardiovascular and renal disease in African Americans. Potential role of increased iron stores in diabetes. Am. J. Med. Sci. 325:332-339.

30. Majithia V, Sanders S, Harisdangkul V, MD, Wilson JG. 2003. Successful treatment of sarcoidosis with leflunomide. Rheumatology 42:700-702.

31. Taylor HA, Wilson JG, Jones DW, Sarpong DF, Srinivasan A, Garrison RJ, Nelson C, Wyatt SB. 2005. Toward resolution of cardiovascular health disparities in African Americans: Design and methods of the Jackson Heart Study. Ethn Dis S6:4-17.

32. Wilson JG, Rotimi CN, Ekunwe L, Royal CDM, Crump ME, Wyatt SB, Steffes MW, Adeyemo A, Zhou J, Taylor HA, Jaquish C. 2005. Study design for genetic analysis in the Jackson Heart Study. Ethn Dis S6:30-37.

33. Maher JF, Hines RS, Futterweit W, Crawford S, Lu D, Shen P, Oefner P, Kazi M, Wilson JG, Subauste JS, Cowan BD. 2005. FEM1A is a candidate gene for polycystic ovary syndrome. Gyn. Endo. 20:1-6.

33. Wilson JG. Iron and glucose homeostasis: new lessons from hereditary haemochromatosis. Diabetologia 2006;49:1459-1461.

34. Nalls MA, Wilson JG, Patterson NJ et al. Admixture mapping of white cell count: genetic locus responsible for lower white blood cell count in the Health ABC and Jackson Heart studies. Am.J.Hum.Genet. 2008;82:81-87.

35. Keating BJ, Tischfield S, Murray SS et al. Concept, design and implementation of a cardiovascular gene-centric 50 k SNP array for large-scale genomic association studies. PLoS.One. 2008;3:e3583.

36. Fox ER, Benjamin EJ, Sarpong DF et al. Epidemiology, heritability, and genetic linkage of C-reactive protein in African Americans (from the Jackson Heart Study). Am.J.Cardiol. 2008;102:835-841.

37. Deo RC, Reich D, Tandon A, Akylbekova E, Patterson N, Waliszewska A, Kathiresan S, Sarpong D, Taylor HA Jr, Wilson JG. Genetic differences between the determinants of lipid profile phenotypes in African and European Americans: the Jackson Heart Study. PLoS Genet. 2009 Jan;5(1):e1000342. Epub 2009 Jan 16. PMCID: PMC2613537.

38. Reich D, Nalls MA, Kao WH, Akylbekova EL, Tandon A, Patterson N, Mullikin J, Hsueh WC, Cheng CY, Coresh J, Boerwinkle E, Li M, Waliszewska A, Neubauer J, Li R, Leak TS, Ekunwe L, Files JC, Hardy CL, Zmuda JM, Taylor HA, Ziv E, Harris TB, Wilson JG. Reduced neutrophil count in people of African descent is due to a regulatory variant in the Duffy antigen receptor for chemokines gene. PLoS Genet. 2009 Jan;5(1):e1000360. Epub 2009 Jan 30. PMCID: PMC2628742.

39. Cheng CY, Kao WH, Patterson N, Tandon A, Haiman CA, Harris TB, Xing C, John EM, Ambrosone CB, Brancati FL, Coresh J, Press MF, Parekh RS, Klag MJ, Meoni LA, Hsueh WC, Fejerman L, Pawlikowska L, Freedman ML, Jandorf LH, Bandera EV, Ciupak GL, Nalls MA, Akylbekova EL, Orwoll ES, Leak TS, Miljkovic I, Li R, Ursin G, Bernstein L, Ardlie K, Taylor HA, Boerwinckle E, Zmuda JM, Henderson BE, Wilson JG, Reich D. Admixture mapping of 15,280 African Americans identifies obesity susceptibility loci on chromosomes 5 and X. PLoS Genet. 2009 May;5(5):e1000490. Epub 2009 May 22. PMCID: PMC2679192.

40. Cheng CY, Reich D, Coresh J, Boerwinkle E, Patterson N, Li M, North KE, Tandon A, Bailey-Wilson JE, Wilson JG, Kao WH. Admixture mapping of obesity-related traits in African Americans: the Atherosclerosis Risk in Communities (ARIC) Study. Obesity (Silver Spring). 2010 Mar;18(3):563-72. Epub 2009 Aug 20. PMCID: PMC2866099.

41. Musunuru K, Lettre G, Young T, Farlow DN, Pirruccello JP, Ejebe KG, Keating BJ, Yang Q, Chen MH, Lapchyk N, Crenshaw A, Ziaugra L, Rachupka A, Benjamin EJ, Cupples LA, Fornage M, Fox ER, Heckbert SR, Hirschhorn JN, Newton-Cheh C, Nizzari MM, Paltoo DN, Papanicolaou GJ, Patel SR, Psaty BM, Rader DJ, Redline S, Rich SS, Rotter JI, Taylor HA Jr, Tracy RP, Vasan RS, Wilson JG, Kathiresan S, Fabsitz RR, Boerwinkle E, Gabriel SB; NHLBI Candidate Gene Association Resource. Candidate gene association resource (CARe): design, methods, and proof of concept. Circ Cardiovasc Genet. 2010 Jun 1;3(3):267-75. Epub 2010 Apr 17. PMID: 20400780.

42. Keebler ME, Deo RC, Surti A, Konieczkowski D, Guiducci C, Burtt N, Buxbaum SG, Sarpong DF, Steffes MW, Wilson JG, Taylor HA, Kathiresan S. Fine-mapping in African Americans of 8 recently discovered genetic loci for plasma lipids: the Jackson Heart Study. Circ Cardiovasc Genet. 2010 Aug;3(4):358-64. Epub 2010 Jun 22. PMID: 20570916.

43. Teslovich TM, Musunuru K, Smith AV, Edmondson AC, Stylianou IM, Koseki M, Pirruccello JP, Ripatti S, Chasman DI, Willer CJ, Johansen CT, Fouchier SW, Isaacs A, Peloso GM, Barbalic M, Ricketts SL, Bis JC, Aulchenko YS, Thorleifsson G, Feitosa MF, Chambers J, Orho-Melander M, Melander O, Johnson T, Li X, Guo X, Li M, Shin Cho Y, Jin Go M, Jin Kim Y, Lee JY, Park T, Kim K, Sim X, Twee-Hee Ong R, Croteau-Chonka DC, Lange LA, Smith JD, Song K, Hua Zhao J, Yuan X, Luan J, Lamina C, Ziegler A, Zhang W, Zee RY,

Wright AF, Witteman JC, Wilson JF, Willemsen G, Wichmann HE, Whitfield JB, Waterworth DM, Wareham NJ, Waeber G, Vollenweider P, Voight BF, Vitart V, Uitterlinden AG, Uda M, Tuomilehto J, Thompson JR, Tanaka T, Surakka I, Stringham HM, Spector TD, Soranzo N, Smit JH, Sinisalo J, Silander K, Sijbrands EJ, Scuteri A, Scott J, Schlessinger D, Sanna S, Salomaa V, Saharinen J, Sabatti C, Ruokonen A, Rudan I, Rose LM, Roberts R, Rieder M, Psaty BM, Pramstaller PP, Pichler I, Perola M, Penninx BW, Pedersen NL, Pattaro C, Parker AN, Pare G, Oostra BA, O'Donnell CJ, Nieminen MS, Nickerson DA, Montgomery GW, Meitinger T, McPherson R, McCarthy MI, McArdle W, Masson D, Martin NG, Marroni F, Mangino M, Magnusson PK, Lucas G, Luben R, Loos RJ, Lokki ML, Lettre G, Langenberg C, Launer LJ, Lakatta EG, Laaksonen R, Kyvik KO, Kronenberg F, König IR, Khaw KT, Kaprio J, Kaplan LM, Johansson A, Jarvelin MR, Janssens AC, Ingelsson E, Igl W, Kees Hovingh G, Hottenga JJ, Hofman A, Hicks AA, Hengstenberg C, Heid IM, Hayward C, Havulinna AS, Hastie ND, Harris TB, Haritunians T, Hall AS, Gyllensten U, Guiducci C, Groop LC, Gonzalez E, Gieger C, Freimer NB, Ferrucci L, Erdmann J, Elliott P, Ejebe KG, Döring A, Dominiczak AF, Demissie S, Deloukas P, de Geus EJ, de Faire U, Crawford G, Collins FS, Chen YD, Caulfield MJ, Campbell H, Burtt NP, Bonnycastle LL, Boomsma DI, Boekholdt SM, Bergman RN, Barroso I, Bandinelli S, Ballantyne CM, Assimes TL, Quertermous T, Altshuler D, Seielstad M, Wong TY, Tai ES, Feranil AB, Kuzawa CW, Adair LS, Taylor HA Jr, Borecki IB, Gabriel SB, Wilson JG, Holm H, Thorsteinsdottir U, Gudnason V, Krauss RM, Mohlke KL, Ordovas JM, Munroe PB, Kooner JS, Tall AR, Hegele RA, Kastelein JJ, Schadt EE, Rotter JI, Boerwinkle E, Strachan DP, Mooser V, Stefansson K, Reilly MP, Samani NJ, Schunkert H, Cupples LA, Sandhu MS, Ridker PM, Rader DJ, van Duijn CM, Peltonen L, Abecasis GR, Boehnke M, Kathiresan S. Biological, clinical and population relevance of 95 loci for blood lipids. Nature. 2010 Aug 5;466(7307):707-13. PMCID: PMC3039276.

44. Wassel CL, Lange LA, Keating BJ, Taylor KC, Johnson AD, Palmer CD, Ho LA, Smith NL, Lange EM, Li Y, Yang Q, Delaney JA, Tang W, Tofler G, Redline S, Taylor HA Jr., Wilson JG, Tracy RP, Jacobs DR Jr, Folsom AR, Green D, O'Donnell CJ, Reiner AP. Association of genomic loci from a cardiovascular gene SNP array with fibrinogen levels in European Americans and African-Americans from six cohort studies: the Candidate gene Association Resource (CARe). Blood. 2011 Jan 6;117(1):268-75. Epub 2010 Oct 26. PMID: 20978265.

45. Lo KS, Wilson JG, Lange LA, Folsom AR, Galarneau G, Ganesh SK, Grant SF, Keating BJ, McCarroll SA, Mohler Iii ER, O'Donnell CJ, Palmas W, Tang W, Tracy RP, Reiner AP, Lettre G. Genetic association analysis highlights new loci that modulate hematological trait variation in Caucasians and African Americans. Hum Genet. 2011 Mar;129(3):307-17. Epub 2010 Dec 12. PMID: 21153663. PMCID: PMC3442357

46. Deo RC*, Wilson JG*, Xing C*, Lawson K, Kao WH, Reich D, Tandon A, Akylbekova E, Patterson N, Mosley TH, Boerwinkle E, Taylor HA. Single-Nucleotide Polymorphisms in LPA Explain Most of the Ancestry-Specific Variation in Lp(a) Levels in African Americans. PLoS One. 2011 Jan 24;6(1):e14581. PMCID: PMC3025914.

47. Lettre G, Palmer CD, Young T, Ejebe KG, Allayee H, Benjamin EJ, Bennett F, Bowden DW, Chakravarti A, Dreisbach A, Farlow DN, Folsom AR, Fornage M, Forrester T, Fox E, Haiman CA, Hartiala J, Harris TB, Hazen SL, Heckbert SR, Henderson BE, Hirschhorn JN, Keating BJ, Kritchevsky SB, Larkin E, Li M, Rudock ME, McKenzie CA, Meigs JB, Meng YA, Mosley TH, Newman AB, Newton-Cheh CH, Paltoo DN, Papanicolaou GJ, Patterson N, Post WS, Psaty BM, Qasim AN, Qu L, Rader DJ, Redline S, Reilly MP, Reiner AP, Rich SS, Rotter JI, Liu Y, Shrader P, Siscovick DS, Tang WH, Taylor HA, Tracy RP, Vasan RS, Waters KM, Wilks R, Wilson JG, Fabsitz RR, Gabriel SB, Kathiresan S, Boerwinkle E. Genome-Wide Association Study of Coronary Heart Disease and Its Risk Factors in 8,090 African Americans: The NHLBI CARe Project. PLoS Genet. 2011 Feb 10;7(2):e1001300. PMCID: PMC3037413.

48. Pasaniuc B, Zaitlen N, Lettre G, Chen GK, Tandon A, Kao WH, Ruczinski I, Fornage M, Siscovick DS, Zhu X, Larkin E, Lange LA, Cupples LA, Yang Q, Akylbekova EL, Musani SK, Divers J, Mychaleckyj J, Li M, Papanicolaou GJ, Millikan RC, Ambrosone CB, John EM, Bernstein L, Zheng W, Hu JJ, Ziegler RG, Nyante SJ, Bandera EV, Ingles SA, Press MF, Chanock SJ, Deming SL, Rodriguez-Gil JL, Palmer CD, Buxbaum S, Ekunwe L, Hirschhorn JN, Henderson BE, Myers S, Haiman CA, Reich D, Patterson N, Wilson JG, Price AL. Enhanced Statistical Tests for GWAS in Admixed Populations: Assessment using African Americans from CARe and a Breast Cancer Consortium. PLoS Genet. 2011 Apr;7(4):e1001371. Epub 2011 Apr 21. PMCID: PMC3080860.

49. Reiner AP, Lettre G, Nalls MA, Ganesh SK, Mathias R, Austin MA, Dean E, Arepalli S, Britton A, Chen Z, Couper D, Curb JD, Eaton CB, Fornage M, Grant SF, Harris TB, Hernandez D, Kamatini N, Keating BJ, Kubo M, LaCroix A, Lange LA, Liu S, Lohman K, Meng Y, Mohler ER 3rd, Musani S, Nakamura Y, O'Donnell CJ, Okada Y, Palmer CD, Papanicolaou GJ, Patel KV, Singleton AB, Takahashi A, Tang H, Taylor HA Jr, Taylor K, Thomson C, Yanek LR, Yang L, Ziv E, Zonderman AB, Folsom AR, Evans MK, Liu Y, Becker DM, Snively BM, Wilson JG. Genome-wide association study of white blood cell count in 16,388 African Americans: the continental origins and genetic epidemiology network (COGENT). PLoS Genet. 2011 Jun; 7(6):e1002108. Epub 2011 Jun 30. PMID: 21738479. PMCID: PMC3128101.

50. Nalls MA, Couper DJ, Tanaka T, van Rooij FJ, Chen MH, Smith AV, Toniolo D, Zakai NA, Yang Q, Greinacher A, Wood AR, Garcia M, Gasparini P, Liu Y, Lumley T, Folsom AR, Reiner AP, Gieger C, Lagou V, Felix JF, Völzke H,

Gouskova NA, Biffi A, Döring A, Völker U, Chong S, Wiggins KL, Rendon A, Dehghan A, Moore M, Taylor K, Wilson JG, Lettre G, Hofman A, Bis JC, Pirastu N, Fox CS, Meisinger C, Sambrook J, Arepalli S, Nauck M, Prokisch H, Stephens J, Glazer NL, Cupples LA, Okada Y, Takahashi A, Kamatani Y, Matsuda K, Tsunoda T, Tanaka T, Kubo M, Nakamura Y, Yamamoto K, Kamatani N, Stumvoll M, Tönjes A, Prokopenko I, Illig T, Patel KV, Garner SF, Kuhnel B, Mangino M, Oostra BA, Thein SL, Coresh J, Wichmann HE, Menzel S, Lin J, Pistis G, Uitterlinden AG, Spector TD, Teumer A, Eiriksdottir G, Gudnason V, Bandinelli S, Frayling TM, Chakravarti A, van Duijn CM, Melzer D, Ouwehand WH, Levy D, Boerwinkle E, Singleton AB, Hernandez DG, Longo DL, Soranzo N, Witteman JC, Psaty BM, Ferrucci L, Harris TB, O'Donnell CJ, Ganesh SK. Multiple loci are associated with white blood cell phenotypes. PLoS Genet. 2011 Jun;7(6):e1002113. Epub 2011 Jun 30. PMID: 21738480. PMCID: PMC3128114.

51. Hinch AG, Tandon A, Patterson N, Song Y, Rohland N, Palmer CD, Chen GK, Wang K, Buxbaum SG, Akylbekova EL, Aldrich MC, Ambrosone CB, Amos C, Bandera EV, Berndt SI, Bernstein L, Blot WJ, Bock CH, Boerwinkle E, Cai Q, Caporaso N, Casey G, Cupples LA, Deming SL, Diver WR, Divers J, Fornage M, Gillanders EM, Glessner J, Harris CC, Hu JJ, Ingles SA, Isaacs W, John EM, Kao WH, Keating B, Kittles RA, Kolonel LN, Larkin E, Le Marchand L, McNeill LH, Millikan RC, Murphy A, Musani S, Neslund-Dudas C, Nyante S, Papanicolaou GJ, Press MF, Psaty BM, Reiner AP, Rich SS, Rodriguez-Gil JL, Rotter JI, Rybicki BA, Schwartz AG, Signorello LB, Spitz M, Strom SS, Thun MJ, Tucker MA, Wang Z, Wiencke JK, Witte JS, Wrensch M, Wu X, Yamamura Y, Zanetti KA, Zheng W, Ziegler RG, Zhu X, Redline S, Hirschhorn JN, Henderson BE, Taylor HA Jr, Price AL, Hakonarson H, Chanock SJ, Haiman CA, Wilson JG, Reich D, Myers SR. The landscape of recombination in African Americans. Nature. 2011 Jul 20;476(7359):170-5. doi: 10.1038/nature10336. PMID: 21775986. PMCID: PMC3154982.

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53. Sobrin L, Green T, Sim X, Jensen RA, Tai ES, Tay WT, Wang JJ, Mitchell P, Sandholm N, Liu Y, Hietala K, Iyengar SK; for the Family Investigation of Nephropathy and Diabetes-Eye Research Group, Brooks M, Buraczynska M,

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NIH/NIGMS, U54GM115428 "Mississippi Center for Clinical and Translational Research", 08/18/2016-07/31/2021; $3,916,053. James Wilson, PI.

NIH/NHLBI, R01 HL133870 "Aptamer Proteomics of Cardiometabolic and Renal Traits in African Americans", 04/01/2017-03/31/2021; $1,579,430. James Wilson, PI; Robert Gerszten, Joint PI.

NIH/NIDDK, DK081572 "Metabolomic predictors of insulin resistance and diabetes", 07/01/2015-06/30/2020; $491,533. Robert Gerszten, PI. Role: Joint PI.

NIH/NHLBI, R01 HL116446-01 "Leukocyte Telomere Length and Cardiovascular Disease in Jackson Heart Study", 07/01/2013 – 06/30/2018; $499,715. Alex Reiner, PI. Role: Joint PI.

NIH/NHLBI, "Jackson Heart Study Field Center", 06/01/2013 – 05/31/2018; $2,649,809. Adolfo Correa, PI. Role: Co-investigator.

NIH/NIGMS, "A Community Effort to Translate Protein Data to Knowledge: An Integrated Platform", 09/29/2014 – 04/30/2018; $1,829,460. Mary Lindsey, PI. Role: Co-investigator.

NIH/NHLBI, R01 "CHARGE consortium: gene discovery for CVD and aging phenotypes", 01/01/2015 – 12/31/2018 (NCE); $496,498. Bruce Psaty, PI. Role: Co-investigator.

R01 HL132947 "Thrombosis genetics in African Americans", 04/01/2017 – 03/31/21; $488,094. Reiner, Lange (Joint PIs). Role: Co-Investigator.

R01 HG007879 "Community-Based Evaluation of APOL1 Genetic Testing in African Americans", 07/01/2015-06/30/2018; $420,014. Young, Burke (Joint PIs). Role: Co-investigator

Prior Funding:

NIH/NHLBI, R01 "Rare Variants and NHLBI Traits in Deeply Phenotyped Cohorts", 04/01/2014 – 03/31/2018; $499,181. Bruce Psaty, PI. Role: Co-investigator.

NIH/NHLBI, R01 "Sleep-Disordered Breathing and Risk for CVD and Stroke in the Jackson Heart Study", 04/01/2012 - 03/31/2016; $593,062. James Wilson, PI (Susan Redline, Joint PI).

NIH/NHLBI, R01 "Prospective meta-analyses of drug-gene interactions: CHARGE GWAS consortium", 07/01/2010 – 06/30/2017; $1,008,553. Bruce Psaty, PI. Role: Co-investigator.

NIH/NHLBI, R01 “A Genome-Wide Methylation Study On Essential Hypertension”, 08/05/2011 – 07/31/2016; $604,145. Xiaoling Wang, PI. Role: Co-investigator.

AHA/CVGPS Pathway Grant, “Early-Onset Stroke: an Extreme Phenotype to Identify Rare Variants in Ischemic Stroke”, 04/01/2015 – 03/31/2017; $248,974. John Cole, PI. Role: Co-investigator.

AHA/CVGPS Pathway Grant, “Genome Wide Analysis of Gene-Diet Interactions in Vascular Outcomes”, 04/01/2015 – 03/31/2017; $249,260. Simin Liu, PI. Role: Co-investigator.

PCORI, “A Scalable Collaborative Infrastructure for a Learning Healthcare System”, 03/01/2014 – 08/31/2015; $108,498. Kenneth Mandl, PI. Role: Co-investigator.

NIH/NHLBI “Health Disparities and CVD: Admixture Mapping in the Jackson Heart Study”, 4/1/2006-3/31/2010. $2,924,000; James Wilson, PI.

Department of Veterans Affairs Merit Review award, “Iron overload, diabetes, and diabetic nephropathy in African Americans”, 10/02-9/05, $182,500; Principal Investigator

Department of Veterans Affairs special projects award, “Program of Clinical Research in Minority Health”, 04/99-12/01, $150,000; Principal Investigator

Department of Veterans Affairs Research Training Initiative for Historically Black Colleges and Universities and Hispanic-Serving Institutions, “Primary Structure and Expression of C3b Receptors in African Americans”, 4/95-3/98, $195,600; Principal Investigator

Department of Veterans Affairs Merit Review award, “Molecular Mechanisms Controlling Expression of C3b/C4b Receptors (CR1)”, 10/88-4/94, $365,700; Principal Investigator

Department of Veterans Affairs Research Advisory Group Award, “Studies of C3b receptors in systemic lupus erythematosus of black patients”, 10/87-9/88, $34,995; Principal Investigator

Biomedical Research Support Grant from the University of Mississippi Medical Center, “Purification of the Human C3b/C4b receptor (CR1), Preparation of Murine Monoclonal and Rabbit Polyclonal Antibodies to CR1, and Purification of the Natural Ligand for this Receptor, C3b”, 8/86-7/87, $12,500; Principal Investigator

Research Interests:

Genetics of cardiovascular disease and its risk factors, particularly in African ancestry populations.

James G. Wilson, M.D. April 10, 2018