

CURRICULUM VITAE

PERSONAL

Business address Department of Epidemiology
University of North Carolina at Chapel Hill
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EDUCATION

2002 – 2004 **Master in Public Health, Epidemiology**
University of North Carolina,
School of Public Health, Chapel Hill, NC
Thesis: Maternal Albumin Excretion and pregnancy Outcomes
Adviser: David Savitz, PhD

1998-2000 **Nephrology Fellowship**
DUKE University Medical Center, Durham, NC

1995-1998 **Internal Medicine Residency,**
University of Utah Medical Center, Salt Lake City, UT

1993- 1995 **Nephrology Research Fellowship**
Division of Nephrology, Oregon Health Science University,
Portland, OR
Research project: Nephrotoxicity of Immunosuppressive Drugs
Adviser: William Bennett, MD

1987- 1990 **Internal Medicine/Nephrology Residency**
Hospital das Clinicas de Porto Alegre, Porto Alegre, Brazil.

1986 **Medical Doctor Degree**
Universidade Federal do Rio Grande do Sul,
School of Medicine, Porto Alegre, RS, Brazil.

POSITIONS AND EMPLOYMENT

Research Assistant Professor
2007 - Department of Epidemiology
School of Public Health

University of North Carolina at Chapel Hill

Postdoctoral fellow in Epidemiology

2005-2007	Department of Epidemiology Public Health North Carolina at Chapel Hill	School of University of
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Instructor of Medicine

2001-2005	Division of Nephrology & Hypertension of Internal Medicine of Medicine Carolina at Chapel Hill	Department School University of North
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BOARD CERTIFICATION

US Board Certified in INTERNAL MEDICINE – 1998 and 2008
US Board Certified in NEPHROLOGY -2000

HONORS/AWARDS

1993-1995	International Society of Nephrology Fellowship Award
2002-2003	National Kidney Foundation Young Investigator Award
2004 (summer)	Holderness Foundation Medical Student Mentorship Program for Clinical Research
2005-2007	GSK Center for Excellence in Pharmacoepidemiology Award
2006-2011	American Heart Association Fellow-to-Faculty Transition Award
2006-2007	2006-07 University of North Carolina Postdoctoral Award for Research Excellence

PUBLICATIONS

Invited Chapters

1. Joy MS, Kshirsagar A, **Franceschini N**. 2007 (100 pages) Chronic kidney disease: Progression modifying therapies. In. Pharmacotherapy: a pathophysiologic approach. 7th Ed. DiPiro JT et al, eds.

Published Peer Reviewed Articles

35. Perry JRB, Stolk L, **Franceschini N**, Lunetta KL, Zhai G, McArdle PF, Smith AV, Aspelund T, Bandinelli S, Boerwinkle E, Cherkas L, Eiriksdottir G, Estrada K, Ferrucci L, Folsom AR, Garcia M, Gudnason V, Hofman A, Karasik D, Kiel DP, Launer LJ, van Meurs J, Nalls MN, Rivadeneira F, Shuldiner AR, Singleton A, Soranzo N, Tanaka T, Visser JA, Weedon MN, Wilson SG, Zhuang V, Streeten EA, Harris TB, Murray A, Spector TD, Demerath E, Uitterlinden AG, Murabito JM. Loci on Chromosome 6 and 9 are associated with Age at Menarche: a Meta-analysis of Genome Wide Association Data from 17,510 Women. *Nature Genetics* 2009, *in press*.
34. **Franceschini N**, Almasy L, MacCluer JW, Goring HH, Cole SA, Diego SA, Laston S, Howard BV, Lee ET, Best LG, Fabsitz RR, North KE. Social- and Environmental-Specific Genetic Effects on Blood Pressure Traits: The Strong Heart Family Study. *Circulation: Cardiovascular Genetics* 2009, *in press*.
33. **Franceschini N**, North KE, Arnett D, Pankow JS, Chung JH, Baird L, Leppert M, Eckfeldt JH, Boerwinkle E, Gu CC, Lewis CE, Myers RH, Turner ST, Weder A, Kao WH, Mosley TH, Chakravarti A, Kramer H, Hunt SC. The Association of Cell Cycle *Checkpoint 2* Variants and Kidney Function: Findings from The Family Blood Pressure Study and the Atherosclerosis in Communities Study. *Am Journal of Hypertension* 2009, 22(5):552-8. NIHMSID #125841
32. **Franceschini N**, Muallem H, Rose KM, Boerwinkle E, Maeda N. LDL Receptor Polymorphisms and the Risk of Coronary Heart Disease: the Atherosclerosis Risk in Communities Study. *J Thromb Haemos* 2009, 7(3):496-8. PMCID: NIHMS92304
31. Yan Y, North KE, Ballantyne CM, Brancati FL, Chambless EL, **Franceschini N**, Heiss G, Kottgen A, Pankow JS, Selvin E, West SL, Boerwinkle E. Transcription Factor 7-Like 2 (*TCF7L2*) Polymorphism and Context-Specific Risk of Type 2 Diabetes in African American and Caucasian Adults: The Atherosclerosis Risk in Communities Study (ARIC). *Diabetes*. 2009 Jan;58(1):285-9. Epub 2008 Oct 17.
30. **Franceschini N**, Almasy L, MacCluer JW, Goring HH, Cole SA, Diego SA, Laston S, Howard BV, Lee ET, Best LG, Fabsitz RR, North KE. Diabetes-specific genetic effects on obesity traits in American Indian populations: the Strong Heart Family Study. *BMC Med Genet* 2008 Oct 14;9(1):90.
29. Mottl AK, Vupputuri S, Cole SA, Almasy L, Goring HH, Diego VP, Laston S, **Franceschini N**, Shara NM, Lee ET, Best LG, Fabsitz RR, MacCluer JW, Ulmans JG, North KE. Linkage analysis of glomerular filtration rate in American Indians. *Kidney Int* 2008 Nov;74(9):1185-91.
28. Wijsman EM, Sung YJ, Buil A, Atkinson E, Bastone L, Christensen GB, Diao G, Feng T, **Franceschini N**, Huang S, Kan D, Kerner B, Lantieri F, Lee E, Papachristou C, Paterson A, Rangrej J, Wang S, Xing C, Zhu X. Summary of Genetic Analysis Workshop 15: Group 9 linkage analysis of the CEPH expression data. *Genet Epidemiol*. 2007;31 Suppl 1:S75-85.

27. **N. Franceschini**, J.W. MacCluer, K.M. Rose, S. Rutherford, S.A. Cole, S. Laston, H.H. Göring, V.P. Diego, M.J. Roman, E.T. Lee, L.G. Best, B. V. Howard, R.R. Fabsitz, Kari E. North. Genome-Wide Linkage Analysis Of Pulse Pressure In American Indians: The Strong Heart Study. *Am J Hypertens.* 2008 Feb;21(2):194-9.
26. Kalayjian R, **Franceschini N**, Gupta SK, Szczech LA, Mupere E, Bosch RJ Smurzynski M, Albert JM. Suppression of HIV-1 replication by antiretroviral therapy improves renal function in persons with low CD4 cells and chronic kidney disease. *AIDS* 2008 Feb 19;22(4):481-7.
25. **Franceschini N**, Qiu C, Barrow DA, Williams MA. Cystatin C and Preeclampsia: a Case Control Study. *Ren Fail.* 2008;30(1):89-95.
24. **Franceschini N**, Wojczynski M, Göring HHH, Peralta JM, Dyer TD, Li X, Li H, North KE. Comparison of Strategies for Identification of Regulatory Quantitative Trait Loci of Transcript Expression Traits. *BMC Proc.* 2007;1 Suppl 1:S85. Epub 2007 Dec 18.
23. North KE, **Franceschini N**, Borecki IB, Gu CC, Heiss G, Province MA, Arnett D, Lewis CE, Miller MB, Myers RH, Hunt SC, Freedman BI. Genotype-by-sex interaction on fasting insulin concentration: The HyperGEN Study. *Diabetes.* 2007; 56(1):137-142.
22. Gourlay M, **Franceschini N**, Sheyn Y. Prevention and Treatment Strategies for Glucocorticoid-Induced Osteoporotic Fractures. *Clinical Rheumatology.* 2007;26(2):144-153.
21. **Franceschini N**, Jean W. MacCluer, Harald H.H. Göring, Shelley A. Cole, Kathryn M. Rose, Laura Almas, Vincent Diego, Sandra Laston, Elisa T. Lee, Barbara V. Howard, Lyle G. Best, Richard R. Fabsitz, Mary J. Roman, Kari E. North. A QTL-Specific Gene-By-Sex Interaction On Systolic Blood Pressure Among American Indians: The Strong Heart Family Study. *Hypertension.* 2006;48(2):266-270.
20. **Franceschini N**, Napravnik S, Finn W, Szczech L, Eron J. Immunosuppression, hepatitis C and acute renal failure in HIV-infected patients. *Journal of Acquired Immune Deficiency Syndromes.* 2006; 42(3):368-372.
19. **Franceschini N**, North K, Kopp J, Winkler C. *NPHS2*, Idiopathic Nephrotic Syndrome and Focal Segmental Glomerulosclerosis: A HUGE Review. *Genetics in Medicine.* 2006; 8(2):63-75.
18. Thomas DB, **Franceschini N**, Hogan SL, ten Holder S, Jennette CE, Falk RJ, Jennette JC. Clinical and Pathologic Characteristics of Focal Segmental Glomerulosclerosis Pathologic Variants. *Kidney Int.* 2006; 69(5):920-926.
17. Gupta S, Eustace JA, Winston, JA, Boydston, II, Ahuja, TS, Rodriguez RA, Tashima, KT, Roland M, **Franceschini N**, Palella, FJ, Lennox, JL, Klotman, PE, Nachman, SA, Hall, SD, Szczech, LA. Guidelines for the Management of Chronic Kidney Disease in HIV-Infected Patients: Recommendations of the HIV Medical Association of the Infectious Diseases Society of America and the Adult and Pediatric AIDS Clinical Trials Groups. *Clinical Infectious Disease.* 2005; 40(11):1559-85.

16. **Franceschini N**, Savitz DA, Kaufman JS, Thorp JM. Maternal urine albumin excretion and pregnancy outcome. *Am J Kidney Dis*. 2005; 45(6):1010-1018.
15. **Franceschini N**, Napravnik S, Eron J, Szczech L, Finn W. Incidence and Etiology of Acute Renal Failure in Ambulatory HIV Patients. *Kidney Int*. 2005; 67(4):1526-1531.
14. Kshirsagar AV, Poole C, Mottl A, Sholam D, **Franceschini N**, Tudor G, Agrawal M, Denu-Ciocca C, Ohman EM, Finn WF. N-Acetylcysteine for the Prevention of Radiocontrast Induced Nephropathy: A Meta-Analysis of Prospective Controlled Trials. *J Am Soc Nephrol*. 2004; 15(3):761-769.
13. Joy M, Kshirsagar A, **Franceschini N**. Calcimimetics and the Treatment of Primary and Secondary Hyperparathyroidism. *The Annals of Pharmacotherapy*. 2004; 38(11):1871-1880.
12. **Franceschini N**, Joy M, Kshirsagar A. Cinacalcet HCl (AMG 073): a calcimimetic agent for treatment of primary and secondary hyperparathyroidism. *Expert Opin. Investig. Drugs* 2003;12(8): 1413-1421.
11. **Franceschini N**, Cheng O, Zhang X, Ruiz P, Mannon RB. Inhibition of prolyl-4-hydroxylase ameliorates chronic rejection of mouse kidney allografts. Inhibition of prolyl-4-hydroxylase ameliorates chronic rejection of mouse kidney allografts. *Am J Transplant*. 2003; 3(4):396-402.
10. **Franceschini N**, Alpers CE, Bennett WM, Andoh TF. Cyclosporine arteriopathy: effects of drug withdrawal. *Am J Kidney Dis*. 1998; 32(2):247-253.
9. Stillman IE, English J, Burdmann EA, Andoh TF, **Franceschini N**, Bennett WM, Rosen S. Prednisone alters the histopathology of chronic cyclosporine nephropathy. *Experimental Nephrology*. 1997; 5(1):61-68.
8. Bennett WM, **Franceschini N**, Alpers C, Lindsley J, Andoh TF. Heparin decreases blood pressure and response to exogenous endothelin but does not protect against chronic experimental cyclosporine nephropathy. *Renal Failure*. 2007; 19(3):383-387.
7. Shihab FS, Andoh TF, Tanner AM, Noble NA, Border WA, **Franceschini N**, Bennett WM. Role of transforming growth factor-beta 1 in experimental chronic cyclosporine nephropathy. *Kidney Int*. 1996; 49(4):1141-1151.
6. Andoh TF, Burdmann EA, **Franceschini N**, Houghton DC, Bennett WM. Comparison of acute rapamycin nephrotoxicity with cyclosporine and FK506. *Kidney Int*. 1996; 50(4):1110-1117.
5. Andoh TF, Lindsley J, **Franceschini N**, Bennett WM. Synergistic effects of cyclosporine and rapamycin in a chronic nephrotoxicity model. *Transplantation*. 1996; 62(3):311-316.

4. Pichler RH, **Franceschini N**, Young BA, Hugo C, Andoh TF, Burdmann EA, Shankland SJ, Alpers CE, Bennett WM, Couser WG. Pathogenesis of cyclosporine nephropathy: roles of angiotensin II and osteopontin. *J Am Soc Nephrol*. 1995; 6(4):1186-1196.
3. Bennett WM, Burdmann E, Andoh T, Elzinga L, **Franceschini N**. Nephrotoxicity of immunosuppressive drugs. *Mineral & Electrolyte Metabolism*. 1994; 20(4):214-220.
2. **Franceschini N**, Goncalves LF, Prompt CA, Barros SG, Cerski CT, Costa CA. Fine needle aspirative biopsy of the liver in HBsAG-positive patients with end-stage renal failure. *Renal Failure*. 1994; 16(4):491-499.
1. **Franceschini N**, Goncalves LF, Prompt CA, Barros SG, Cerski CT, Costa CA. Liver histology in hepatitis B and C co-infection on hemodialysis patients. *Nephron*. 1994; 68(4):515-516.

GRANT SUPPORT

A. Present

1. AHA - 0675001N (Franceschini PI)

AHA: 07/01/2006 - 06/30/2011

TOTAL DIRECT COSTS: \$593,000

Innovative Analysis of Blood Pressure Variation in Gene-Environment Context

The objective of this study is to identify QTLs that influence blood pressure variation across multiple populations.

Role: Principal Investigator

2. 1R01HL089651-01 (North PI)

NHLBI: 02/01/2008 – 01/31/2011

TOTAL DIRECT COSTS: \$1,296,300

Comprehensive Mapping of a Blood Pressure QTL on Chromosome 17

This proposal aims to identify gene variants in chromosome 17 associated with blood pressure variation and susceptibility to hypertension, by following-up persuasive linkage findings of blood pressure in American Indian participants of the Strong Heart Family Study.

Role: Co-Investigator

4. RFA-HG-07-014 (Heiss PI)

NIH: 7/1/08-6/30/12

TOTAL DIRECT COSTS: \$4,600,000

Genetic Epidemiology of Casual Variants Across the Life Course

The goal is for a consortium of population based studies to investigate mature genetic variants associated with complex diseases. The overall goal is to genotype well-replicated putative casual variants in well characterized population-based studies to examine their prevalence, associations, modifiers and potential impact in population groups most relevant to the U.S.

Role: Co-Investigator

C. Past Research Support

National Kidney Foundation of North Carolina Franceschini (PI) 2002-2003 Project:
Validation of a New Pathology Classification of Focal Segmental Glomerulosclerosis

PROFESSIONAL SERVICE

Department of Epidemiology

Member, Chair's Council Committee 2008-2009

Community/National/International

Member, Editor Board

2003- present Clinical Nephrology journal

Member, Renal Committee

2002-2005 Adult Aids Clinical Trials Group (AACTG)
National Institute of Allergy and Infectious Diseases,
National Institutes of Health

Member, Renal Committee

2007 – present Strong Heart Family Study
National Heart, Lung and Blood Institute,
National Institutes of Health

Invited Manuscript Review

American Journal of Kidney Diseases
Kidney International
Clinical Nephrology
American Journal of Cardiology
American Journal of Hypertension
Nephron Dialysis and Transplantation
Journal of the American Society of Nephrology
Environmental Health Perspectives
Diabetes
Genetic Analysis Workshop 15
Genetic Analysis Workshop 16
Atherosclerosis in Communities Study (internal review)
JAMA

Archives of Internal Medicine
Human Genetics
Journal of Human Hypertension

Invited Abstract Review for Meetings -2008

International Genetic epidemiology Society
American Society of Nephrology

Guidelines Committee Member

Management of Chronic Kidney Disease in HIV-Infected Patients: Recommendations of the HIV Medical Association of the Infectious Diseases Society of America and the Adult and Pediatric AIDS Clinical Trials Groups. 2004.

Scientific Program Committee

International Genetic Epidemiology Society meeting 2008

Societies

International Society of Nephrology
American Society of Nephrology
Society of Epidemiology Research
American Heart Association
International Genetic Epidemiology Society

ADVISING

Advising in progress 2007-2009

Member of doctoral committee (project title): Bonnie Joubert (Pedersen) (Genetic Susceptibility to Mother-To-Child Transmission of HIV)

Reader, master degree (project title): Xia Li (Genotype-by-obesity interaction and fasting plasma low density lipoprotein cholesterol, high density lipoprotein cholesterol and triglyceride concentrations: the Hypertension Genetic Epidemiology Network study)