

Nora Franceschini, MD, MPH, FAHA

CURRICULUM VITAE

PERSONAL

Business address Department of Epidemiology
University of North Carolina at Chapel Hill
123 W. Franklin Street, suite 401 CB #8050
Chapel Hill, NC 27514-3628
919-966-1305 (voice)
919-966-9800 (fax)
noraf@unc.edu

EDUCATION

2004	M.P.H. (Epidemiology)	Univ. North Carolina, Chapel Hill, NC
1986	M.D.	UFRGS, Porto Alegre, RS, Brazil

PROFESSIONAL EXPERIENCE

2019 - present	Professor Department of Epidemiology, Cardiovascular Disease section University of North Carolina, Chapel Hill, NC
2015-2019	Associate Professor Department of Epidemiology, Cardiovascular Disease section University of North Carolina, Chapel Hill, NC
2007-2015	Assistant Professor Department of Epidemiology, Cardiovascular Disease section University of North Carolina, Chapel Hill, NC
2004-2007	Postdoctoral Fellow in Genetic Epidemiology Department of Epidemiology, University of North Carolina, Chapel Hill, NC
2001-2005	Instructor of Medicine Division of Nephrology & Hypertension University of North Carolina, Chapel Hill, NC
1998-2000	Nephrology Clinical/Research Fellow Duke University Medical Center, Durham, NC
1995-1998	Internal Medicine Resident

University of Utah Medical Center, Salt Lake City, UT

- 1993-1995 **Research Fellow**
Division of Nephrology, OHSU, Portland, OR
- 1990-1993 **Nephrology Staff**
Hospital Maia Filho, Porto Alegre, RS, Brazil
- 1991-1993 **Intensive Care Physician**
Hospital São José, Santa Casa de Misericórdia de Porto Alegre,
Porto Alegre, RS Brazil
- 1989-1990 **Chief Resident**
Internal Medicine/Nephrology, UFRGS, Brazil
- 1987- 1990 **Internal Medicine Resident/Nephrology Fellow**
Hospital das Clinicas, Porto Alegre, RS, Brazil

MEDICAL BOARD CERTIFICATION

- 1990 Board Certified in NEPHROLOGY - Brazil
1998, recertification 2008 US Board Certified in INTERNAL MEDICINE
2000, recertification 2010 & 2020 US Board Certified in NEPHROLOGY

HONORS

- 2024 Nominated, 2024 UNC Faculty Award for Global Excellence, Office of the Vice Provost for Global Affairs (OVPGA)
- 2019 Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Tiger Leadership Award
- 2019 Fellow of the American Heart Association (FAHA)
- 2018 The Trudy Bush Fellowship for Cardiovascular Disease Research in Women’s Health, American Heart Association
- 2016 WR Kenan Jr Senior Faculty Research and Scholarly Leave, Office of the Executive Vice Chancellor and Provost UNC-Chapel Hill Gillings School of Global Public Health
- 2015 University of North Carolina Global Partnership Award for collaborations in Brazil
- 2007 American Heart Association Fellow-to-Faculty Award
- 2006 University of North Carolina Postdoctoral Award for Research Excellence
- 2005 GSK Center for Excellence in Pharmacoepidemiology Award
- 2004 Holderness Foundation Medical Student Mentorship Program for Clinical Research
- 2002 National Kidney Foundation Young Investigator Award
- 1993 International Society of Nephrology Fellowship Award

MEMBERSHIPS

2010-	American Society of Human Genetics
2005-	International Genetic Epidemiology Society
2005-2015	Society of Epidemiology Research
2005-2021	American Heart Association
1993-	International Society of Nephrology
1993-	American Society of Nephrology

RESEARCH INTEREST

Epidemiology of kidney disease

Genetics of kidney and hypertension disease in diverse populations

Trans-ancestry genetic studies of cardiovascular and kidney traits

Multi-omics studies in Hispanics/Latinos and African Americans

Chronic kidney disease of unknown etiology (CKDu)

Dr. Franceschini is a nephrologist and an epidemiologist with a 20-year experience conducting multidisciplinary studies in chronic kidney disease and mentoring graduate students and early-stage investigators. Her research focuses on environmental and genetic determinants of hypertension, kidney and cardiovascular diseases in diverse and underrepresented populations who carry a high burden of chronic health conditions. This work includes gene discovery and multi-omic studies in American Indians, African Americans and Hispanics/Latinos, and studies to characterize the social/environmental context in which genetic variants contribute to health conditions. She is also leading research in chronic kidney disease in agricultural communities in Central America.

BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP

Peer-Reviewed Publications (h-index: 88, i10 index 250)

† shared first or last author; *work led by a trainee/junior faculty under my supervision

329. Franceschini N, Feldman DL, Berg JS, Besse W, Chan AR, Dahl NK, Gbadegesin R, Pollak MR, Rasouly HM, Smith RJH, Winkler CA, Gharavi A, on behalf of the NKF Genetic Testing Working Group. Advancing genetic testing in kidney diseases: Report from a National Kidney Foundation Working Group. *Am J Kidney Dis* 2024, *in press*.

*328. Horimoto ARVR, Sun Q, Lash JP, Daviglus ML, Cai J, Haack K, Cole SA, Thornton TA, Browning SR, **Franceschini N**. Admixture Mapping of Chronic Kidney Disease and Risk Factors in Hispanic/Latino Individuals from Central America Country of Origin. *Circ Genom Precis Med*. 2024 Jul 1:e004314.

*327. Zhou J, **Franceschini N**, Townley-Tilson WHD, Maeda-Smithies N. Nutritional Strategies against Diabetic Nephropathy: Insights from Animal Studies and Human Trials. *Nutrients*. 2024 Jun 18;16(12):1918.

326. Kentistou KA, Kaisinger LR, Stankovic S, Vaudel M, Mendes de Oliveira E, Messina A, Walters RG, Liu X, Busch AS, Helgason H, Thompson DJ, Santoni F, Petricek KM, Zouaghi Y, Huang-Doran I, Gudbjartsson DF, Bratland E, Lin K, Gardner EJ, Zhao Y, Jia RY, Terao C, Riggan MJ, Bolla MK, Yazdanpanah M, Yazdanpanah N, Bradfield JP, Broer L, Campbell A, Chasman DI, Cousminer DL, **Franceschini N**, Franke LH, Girotto G, He C, Järvelin MR, Joshi PK, Kamatani Y, Karlsson R, Luan J, Lunetta KL, Mägi R, Mangino M, Medland SE, Meisinger C, Noordam R, Nutile T, Concas MP, Polašek O, Porcu E, Ring SM, Sala C, Smith AV, Tanaka T, van der Most PJ, Vitart V, Wang CA, Willemsen G, Zygunt M, Ahearn TU, Andrusis IL, Anton-Culver H, Antoniou AC, Auer PL, Barnes CLK, Beckmann MW, Berrington de Gonzalez A, Bogdanova NV, Bojesen SE, Brenner H, Buring JE, Canzian F, Chang-Claude J, Couch FJ, Cox A, Crisponi L, Czene K, Daly MB, Demerath EW, Dennis J, Devilee P, De Vivo I, Dörk T, Dunning AM, Dwek M, Eriksson JG, Fasching PA, Fernandez-Rhodes L, Ferrelli L, Fletcher O, Gago-Dominguez M, García-Closas M, García-Sáenz JA, González-Neira A, Grallert H, Guénel P, Haiman CA, Hall P, Hamann U, Hakonarson H, ... Understanding the genetic complexity of puberty timing across the allele frequency spectrum. *Nat Genet.* 2024 Jul 1. doi: 10.1038/s41588-024-01798-4.

325. de Vries PS, Conomos MP, Singh K, Nicholson CJ, Jain D, Hasbani NR, Jiang W, Lee S, Lino Cardenas CL, Lutz SM, Wong D, Guo X, Yao J, Young EP, Tcheandjieu C, Hilliard AT, Bis JC, Bielak LF, Brown MR, Musharoff S, Clarke SL, Terry JG, Palmer ND, Yanek LR, Xu H, Heard-Costa N, Wessel J, Selvaraj MS, Li RH, Sun X, Turner AW, Stilp AM, Khan A, Newman AB, Rasheed A, Freedman BI, Kral BG, McHugh CP, Hodonsky C, Saleheen D, Herrington DM, Jacobs DR Jr, Nickerson DA, Boerwinkle E, Wang FF, Heiss G, Jun G, Kinney GL, Sigursslid HH, Doddapaneni H, Hall IM, Bensenor IM, Broome J, Crapo JD, Wilson JG, Smith JA, Blangero J, Vargas JD, Mosquera JV, Smith JD, Viaud-Martinez KA, Ryan KA, Young KA, Taylor KD, Lange LA, Emery LS, Bittencourt MS, Budoff MJ, Montasser ME, Yu M, Mahaney MC, Mahamdeh MS, Fornage M, **Franceschini N**, Lotufo PA, Natarajan P, Wong Q, Mathias RA, Gibbs RA, Do R, Mehran R, Tracy RP, Kim RW, Nelson SC, Damrauer SM, Kardina SLR, Rich SS, Fuster V, Napolioni V, Zhao W, Tian W, Yin X, Min YI, Manning AK, Peloso G, Kelly TN, O'Donnell CJ, Morrison AC, Curran JE, Zapol WM, Bowden DW, Becker LC, Correa A, Mitchell BD, Psaty BM, Carr JJ, Pereira AC, Assimes TL, Stitzel NO., Malhotra R. Whole-genome sequencing uncovers two loci for coronary artery calcification and identifies ARSE as a regulator of vascular calcification. *Nat Cardiovasc Res.* 2023 Dec;2(12):1159-1172

*324. Breeze CE, Lin BM, Winkler CA, **Franceschini N**. African ancestry-derived *APOLI* risk genotypes show proximal epigenetic associations. *BMC Genomics.* 2024 May 8;25(1):452.

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Scheet PA, Jaiswal S, Weinstock JS, Bick AG. Determinants of mosaic chromosomal alteration fitness. *Nat Commun.* 2024 May 7;15(1):3800.

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study investigating effector genes and polygenic prediction for kidney function in persons with ancestry from Africa and the Americas. *Cell Genom.* 2023 Dec 20;100468.

314. Breeze CE, Haugen E, Gutierrez-Arcelus M, Yao X, Teschendorff A, Beck S, Dunham I, Stamatoyannopoulos J, **Franceschini N**, Machiela MJ, Berndt SI. FORGEDb: a tool for identifying candidate functional variants and uncovering target genes and mechanisms for complex diseases. *Genome Biol.* 2024 Jan 2;25(1):3.

313. Armstrong ND, Srinivasasainagendra V, Ammous F, Assimes TL, Beitelshes AL, Brody J, Cade BE, Ida Chen YD, Chen H, de Vries PS, Floyd JS, **Franceschini N**, Guo X, Hellwege JN, House JS, Hwu CM, Kardia SLR, Lange EM, Lange LA, McDonough CW, Montasser ME, O'Connell JR, Shuey MM, Sun X, Tanner RM, Wang Z, Zhao W, Carson AP, Edwards TL, Kelly TN, Kenny EE, Kooperberg C, Loos RJF, Morrison AC, Motsinger-Reif A, Psaty BM, Rao DC, Redline S, Rich SS, Rotter JI, Smith JA, Smith AV, Irvin MR, Arnett DK. Whole genome sequence analysis of apparent treatment resistant hypertension status in participants from the Trans-Omics for Precision Medicine program. *Front Genet.* 2023 Dec 13;14:1278215.

312. Meeks KAC, Bentley AR, Assimes TL, **Franceschini N**, Adeyemo AA, Rotimi CN, Doumatey AP. Mendelian randomization analyses suggest a causal role for circulating GIP and IL-1RA levels in homeostatic model assessment-derived measures of β -cell function and insulin sensitivity in Africans without type 2 diabetes. *Genome Med.* 2023 Dec 4;15(1):108.

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304. Peters BA, Qi Q, Usyk M, Daviglius ML, Cai J, **Franceschini N**, Lash JP, Gellman MD, Yu B, Boerwinkle E, Knight R, Burk RD, Kaplan RC. Association of the gut microbiome with kidney function and damage in the Hispanic Community Health Study/Study of Latinos (HCHS/SOL). *Gut Microbes*. 2023 Jan-Dec;15(1):2186685.
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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):1110-7.
5. Pichler RH, **Franceschini N**, Young BA, Hugo C, Andoh TF, Burdmann EA, Shankland SJ, Alpers CE, Bennett WM, Couser WG, et al. Pathogenesis of cyclosporine nephropathy: Roles of angiotensin ii and osteopontin. *J Am Soc Nephrol.* 1995;6:1186-1196
4. Bennett WM, Burdmann E, Andoh T, Elzinga L, **Franceschini N**. Nephrotoxicity of immunosuppressive drugs. *Miner Electrolyte Metab.* 1994;20:214-220 (Review article) 11.
3. **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;68:515-516
2. **Franceschini N**, Goncalves LF, Prompt CA, Barros SG, Cerski CT, Costa CA. Fine needle aspirative biopsy of the liver in HBsAb-positive patients with end-stage renal failure. *Ren Fail.* 1994;16:491-499
1. Gupta SK, 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 Medicine Association of the Infectious Diseases Society of America. *Clin Infect Dis.* 2005;40:1559-1585

Society Clinical Guidelines

Gupta SK, 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 Medicine Association of the Infectious Diseases Society of America. *Clin Infect Dis*. 2005;40:1559-1585

Books & Chapters

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.

Patient Educational Material

UNC Division of Nephrology & Hypertension, School of Medicine Patient educational material for Focal Segmental Glomerulosclerosis and Membranous Nephropathy (2004). Recent updates at: <http://unckidneycenter.org/kidneyhealthlibrary>

NATIONAL AND INTERNATIONAL RESEARCH ACTIVITIES

INVITED LECTURES/KEYNOTE LECTURES/PANEL EXPERT

72. Franceschini N (2024d). Leveraging Ancestry to Map Kidney Loci. In: *Hispanic Community Health Study/Study of Latinos Steering Committee*. Bethesda, MD, May 22-23, 2024

71. Franceschini N (2024c). CKD in Costa Rica & Genetics of Kidney Disease in Hispanics/Latinos. In: *Environmental Exposures and Kidney Health*. Duke University, May 16, 2024 (virtual)

70. Franceschini, N (2024b). Preparing your manuscript: guidelines, tips and expectation. In: *Women's Health Initiative and nuMoM2b Heart Health Study Cohorts Workshop*, Washington, DC, March 6-8, 2024

69. Franceschini, N (2024a). Epidemiology of Kidney Disease and Women's Health. In: *BIRCWH Seminar*, Tulane University School of Public Health and Tropical Medicine, January 22, 2024 (virtual).

68. Franceschini, N (2023h). Keynote Lecture: Genomics and Human Population Diversity. In: *The 14th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB)*, Houston, TX, September 2023.

67. Franceschini, N (2023g). Genomics of Kidney Disease in Hispanics/Latinos. In: *O'Brien Symposium of the Yale Kidney Center*, New Haven, CT, May 12, 2023.

66. Franceschini, N (2023f). Epigenetics and Human Population Diversity In: *Women's Health Initiative Investigator Meeting*, Seattle, WA, May 5-7, 2023

65. Franceschini, N (2023e). Genomics of Kidney Disease in Hispanics/Latinos. In: *Hispanic Community Health Study/Study of Latinos Science Call*, Chapel Hill, NC, April 24, 2023

65. Franceschini, N (2023d). Epigenetics and Human Population Diversity In: *Women's Health Initiative Investigator Meeting*, Seattle, WA, May 5-7, 2023

- 64. Franceschini, N** (2023c). Genetics of Kidney Disease. In: *UNC Nephrology Grand Rounds*, Chapel Hill, NC, April 12, 2023 (virtual).
- 63. Franceschini, N** (2023b). *Race component and glomerular filtration equations*. In: TOPMED ELSI meeting, March 27, 2023 (virtual).
- 62. Franceschini, N.** (2023a). Disease mechanisms expert panel In: *Challenges to statistical approaches for fairness in genomics and genomic medicine*. Sponsored by the Alan Turing Institute and the Diverse Data programme at Genomics England, UK, January 30, 2023 (virtual)
- 61. Franceschini, N.** (2022d). Genomics of Kidney Disease in Hispanics/Latinos. In: *Columbia University Renal Grand Rounds Lecture*, December 2nd, 2022 (virtual).
- 60. Franceschini, N.** (2022c). Epigenetics and human genetic diversity. In: *Epigenomics of Common Diseases Conference*, Wellcome Connecting Science, Cambridge, UK, Nov 16 to 18, 2022.
- 59. Franceschini, N.** (2022b). Hypertension and the Women’s Health Initiative Expert Panel. In: *HHS Office on Women’s Health National Women’s Blood Pressure Awareness Week (NWBPAW) observance*, Oct 19, 2022 (virtual).
- 58. Franceschini, N.** (2022a). Transcriptome-wide association study (TWAS) of cardiovascular outcomes in chronic kidney disease. In: *Chronic Renal Insufficiency Cohort (CRIC) Opportunity Pool Lecture*, CRIC Steering Committee, Oct 3rd, 2022, virtual.
- 57. Franceschini, N.** (2021c). Panel Expert on Future of Genomic Research. In: *CHARGE Meeting*, Oct 8, 2021 (virtual).
- 56. Franceschini, N.** (2021b). Precision Medicine, Genomics and Chronic Kidney Disease. In: *Colorado Center for Personalized Medicine seminar* (virtual).
- 55. Franceschini, N.** (2021a). Leveraging GWAS in diverse populations to enhance understanding of kidney disease. In: *International Mendelian randomization conference*, Bristol, UK (virtual).
- 54. Franceschini, N.** (2020e). Race, Ancestry and Ethnicity. In: *Women’s Health Initiative Race and Ethnicity Sig.* (virtual)
- 53. Franceschini, N.** (2020d). Race, ancestry and eGFR. In: ASN/NKF Task Force on Reassessing the Inclusion of Race in Diagnosing Kidney Diseases. (virtual)
- 52. Franceschini, N.** (2020c). COGENT-Kidney Consortium updates. In: *CHARGE colloquium.* (virtual)
- 51. Franceschini, N.** (2020b). Differential DNA methylation associated with kidney function in three ethnic groups. In: *2020 Women’s Health Initiative Seminar.*
- 50. Franceschini, N.** (2020a). Trans-ethnic kidney function association study uncovers biological targets and kidney-specific disease etiologies. In: *Genetic Research Colloquium*, Department of Genetics, School of Medicine, UNC, Chapel Hill, NC.
- 49. Franceschini, N.** (2019i). Use of Genetic Testing in Kidney Disease: Costs and Benefits. In: *National Kidney Foundation Spring 2019 meeting*, Boston, MA. Session: Cutting Edge to Clinical Practice: Novel Testing in Kidney Disease. Continuing Medical Education Lecture.
- 48. Franceschini, N.** (2019h). Genome-wide association analyses of kidney traits in selected populations. In: *North Carolina Agricultural and Technical State University Seminar*, Greensboro, NC.
- 47. Franceschini, N.** (2019g). Genetic testing in Clinical Care. In: *Division of Nephrology Grand Rounds*, Duke University, Durham, NC.
- 46. Franceschini, N.** (2019f). Genetics of kidney disease in diverse populations. In: *NYU Nephrology Seminar Series*, New York University, School of Medicine, NYC, NY.

- 45. Franceschini, N.** (2019e). Genome-wide association analyses of kidney traits in selected populations. In: *American Physiology Society/American Society of Nephrology Conference on Control of Renal Function in Health and Disease*, Charlottesville, VA.
- 44. Franceschini, N.** (2019d). Genetics of kidney disease in diverse populations. In: *Division of Nephrology Seminar*, University of Rochester Medical Center, School of Medicine, Rochester, NY.
- 43. Franceschini, N.** (2019c). Genetic of kidney disease in Hispanics/Latinos. In: *Department of Environmental Health Special Seminar*, Boston University, School of Public Health, Boston, MA.
- 42. Franceschini, N.** (2019b). Genetic Susceptibility to Kidney Disease. In: *Nephrology Seminar*, Washington University, School of Medicine, St Louis, MO
- 41. Franceschini, N.** (2019a). Genetic Testing in Clinical Setting. In: *Cardiovascular Epidemiology Seminar*, UNC Gillings School of Global Public Health, UNC, Chapel Hill, NC.
- 40. Franceschini, N.** (2018c). Precision Medicine, Public Health and Clinical Care In: *American Society of Nephrology Kidney Week*, 2018 Program and Postgraduate Education, San Diego, CA. Session: Personalizing CKD Care and Prevention: Lessons from the Genomics of Chronic Disease. Continuing Medical Education Lecture
- 39. Franceschini, N.** (2018b). Lecture on investigator career & judge for junior investigator abstracts. In: *Johns Hopkins University Nephrology, Mid-Atlantic Young Investigator Forum*, Baltimore, MD. Continuing Medical Education Lecture
- 38. Franceschini, N.** (2018a). Chronic Kidney Disease, Genetics and Public Health. In: *Nephrology Seminar*, University of Virginia, Department of Medicine, Division of Nephrology, Charlottesville, VA.
- 37. Franceschini, N.** (2016e). Discovery and Characterization of Loci for Hypertension and Kidney Traits in Diverse Populations. In: *Epidemiology Seminar*, National Institute of Environmental Health Sciences, National Institutes of Health, Research Triangle Park, NC.
- 36. Franceschini, N.** (2016d). Trans-ethnic genome wide association study of kidney function. In: *Women's Health Initiative Investigator Meeting Symposium*, Plenary IV: Mixed Session, Columbus, OH.
- 35. Franceschini, N.** (2016c). Genetics of Hypertension and Kidney Traits in Diverse Populations. In: *Division of Nephrology Seminar*, Universidade Federal de Sao Paulo, Brazil.
- 34. Franceschini, N.** (2016b). Genetics of Hypertension and Kidney Traits in Diverse Populations. In: *Division of Epidemiology Seminar*, Universidade Federal de Rio Grande do Sul, Porto Alegre, Brazil.
- 33. Franceschini, N.** (2016a). Genetics of Kidney Traits in Diverse Populations. In: *Duke O'Brien Center for Kidney Research Seminar*, Duke University, Durham, NC.
- 32. Franceschini, N.** (2015d). Lifestyle, Obesity and the Risk of Chronic Kidney Disease. In: *Cardiovascular Epidemiology Seminar*, UNC Gillings School of Global Public Health, UNC, Chapel Hill, NC.
- 31. Franceschini, N.** (2015c). Genetics of Complex Traits in Diverse Ancestry Populations. In: *Center for Clinical and Translation Science Research Grand Rounds*, MedStar Health Research Institute's & Georgetown-Howard Universities, Washington DC

- 30. Franceschini, N.** (2015b). Adiposity and Kidney Outcomes. In: *Women's Health Initiative Investigator Meeting Symposium*, Plenary IV: Understanding Obesity and Health Risks in Postmenopausal Women, Rockville, MD.
- 29. Franceschini, N.** (2015a). Genes, Hypertension and Kidney Disease. *Division of Nephrology Seminar*, Boston University, School of Medicine, Boston, MA.
- 28. Franceschini, N.** (2014c). Genes, Hypertension and Kidney Disease. In: *Division of Nephrology Grand Rounds*, University of Texas Southwestern Medical Center, Dallas, TX.
- 27. Franceschini, N.** (2014b). The Genetic Variation in American Indians and Insights on Cardiovascular Disease Traits. In: *Genome Sciences Seminar Series*, Center for Public Health Genomics, School of Medicine, University of Virginia, Charlottesville, VA.
- 26. Franceschini, N.** (2014a). Genetic of Kidney Traits in American Indians. In: *Division of Nephrology Seminar*, University of Utah, School of Medicine, Salt Lake City, UT.
- 25. Franceschini, N.** (2013g). Genetics of Hypertension and Kidney Traits. In: *Cardiovascular Epidemiology Seminar*, UNC Gillings School of Global Public Health, UNC, Chapel Hill, NC.
- 24. Franceschini, N.** (2013f). Genetic of Hypertension and Kidney Traits. In: *Division of Nephrology Grand Rounds*, University of Massachusetts, School of Medicine, Worcester, MA.
- 23. Franceschini, N.** (2013e). Intersection of Reproductive and Cardiovascular Health using Genomics. In: *Epidemiology Seminar*, Department of Epidemiology, School of Public Health, Brigham and Women's Hospital & Harvard University, Boston, MA.
- 22. Franceschini, N.** (2013d). Genetics of Hypertension and Kidney Traits. In: *Nephrology Seminar*, University of Virginia, Department of Medicine, Division of Nephrology, Charlottesville, VA.
- 21. Franceschini, N.** (2013c). Genetics of Hypertension in Diverse Ancestry Populations. In: *Division of Family Medicine and Epidemiology*, Brown University, School of Medicine, Providence, RI.
- 20. Franceschini, N.** (2013b). Genetics of Complex Traits in Diverse Ancestry Populations. In: *Division of Preventive Medicine Seminar*, Brigham and Women's Hospital, Boston, MA.
- 19. Franceschini, N.** (2013a). Genetic Determinants of Hypertension and Blood Pressure Variation. In: *Division of Nephrology Grand Rounds*, Duke University, Durham, NC.
- 18. Franceschini, N.** (2012d). Using trans-ethnic samples for discovery & fine mapping loci. In: *Wednesday Research Colloquium*, UNC School of Medicine, Department of Genetics, Chapel Hill, NC.
- 17. Franceschini, N.** (2012c). Recent Insights into the Genetics of Cardiovascular Diseases. In: *Department of Preventive Medicine Seminar*, University of Tennessee Health Sciences Center, School of Medicine, Memphis, TN
- 16. Franceschini, N.** (2012b). Discovery and fine mapping of serum protein loci using trans-ethnic meta-analysis. In: *Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) meeting*, Reykjavik, Iceland.
- 15. Franceschini, N.** (2012a). Recent Insights into the Genetics of Cardiovascular Diseases. In: *Nephrology Seminar*, University of Virginia, Department of Medicine, Division of Nephrology, Charlottesville, VA.
- 14. Franceschini, N.** (2011c). Genetic Architecture of Hypertension: Recent Findings from GWAS in Minorities. In: *American Society of Nephrology Kidney Week*, 2011 Program and

Postgraduate Education, Philadelphia, PA. Session: Genetic Determinants of Hypertension and Cardiovascular Diseases. Continuing Medical Education Lecture

13. Franceschini, N. (2011b). Genetic Architecture of Hypertension: Recent Findings from Genome-wide Association Studies in Minorities. In: *Cardiovascular Epidemiology Seminar*, UNC Gillings School of Global Public Health, UNC, Chapel Hill, NC.

12. Franceschini, N. (2011a). Recent Insights into the Genetics of Cardiovascular Diseases. In: *Joint Nephrology and Genomics Seminar Wake Forest University*, School of Medicine Winston-Salem, NC, September 2011

11. Franceschini, N. (2010b). Genetics of Reproductive Lifespan. *Cardiovascular Epidemiology Seminar*, UNC Gillings School of Global Public Health, UNC, Chapel Hill, NC.

10. Franceschini, N. (2010a). Smoking Behavior & Nicotine Dependence: Tobacco and Genetics (TAG) Consortium. In: *Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) meeting*, Houston, TX.

9. Franceschini, N. (2009c). The Genetic Susceptibility to Complex Diseases. In: UNC School of Medicine Division of Nephrology & Hypertension Grand Rounds, Chapel Hill, NC. Continuing Medical Education Lecture

8. Franceschini, N. (2009b). Genome wide Association of Age of Menarche. In: *Atherosclerosis Risk in Communities (ARIC) Steering Committee Meeting*, Tampa, FL.

7. Franceschini, N. (2009a). Approaches for Gene Finding in Complex Diseases. In: *Cardiovascular Epidemiology Seminar*, UNC Gillings School of Global Public Health, UNC, Chapel Hill, NC, March 2009

6. Franceschini, N. (2007). Hypokalemia not related to diuretics. In: *UNC School of Medicine North Carolina Continuing Medical Education Series*, Veterans Administration Medical Center, Fayetteville, NC. Continuing Medical Education Lecture

5. Franceschini, N. (2006b). Sex-specific Effects of Cardiovascular Disease Traits. In: *Glaxo-Smith-Kline Cardiovascular Epidemiology Seminar*, Research Triangle Park, NC.

4. Franceschini, N. (2006a). Genetic Epidemiology of Blood Pressure Variation. In: *Cardiovascular Epidemiology Seminar*, UNC Gillings School of Global Public Health, UNC, Chapel Hill, NC, Fall 2006

3. Franceschini, N. (2005). Chronic Kidney Disease. In: *UNC School of Medicine North Carolina Continuing Medical Education Series*, Veterans Administration Medical Center, Fayetteville, NC. Continuing Medical Education Lecture

2. Franceschini, N. (2004b). Albuminuria and the Risk of Preterm Birth. In: UNC School of Medicine Division of Nephrology & Hypertension Grand Rounds, Chapel Hill, NC. Continuing Medical Education Lecture

1. Franceschini, N. (2004a) Acute Renal Failure. In: *Area Health Education Centers (AHEC) Continuing Medical Education Series*, New Hanover Regional Medical Center, Wilmington. Continuing Medical Education Lecture

TEACHING ACTIVITIES

Courses

University of Ulm, Ulm, Germany

2008 Instructor

Summer Session in Genetic Epidemiology (~30 Students)

University of North Carolina, Chapel Hill, NC

2016	Instructor	EPID 799A: SPECIAL STUDIES EPID I: Epidemiology of Kidney Disease (9 students)
2019	Instructor	EPID 696-001: PROBLEMS IN EPIDEMIOLOGY (1 student – independent studies)
2019	Instructor	EPID 992: Master Thesis (1 student)
2020-21	Instructor	EPID 726: Epidemiology Research Methods: Group Leader (MSCR students)

Guest Lectures

University of North Carolina, Chapel Hill, NC

Gillings School of Global Public Health

2006-2010, 2012	EPID 743: Genetic Epidemiology
2008	EPID 744: Advanced Genetic Epidemiology
2010	NUTR 812: Introduction to Obesity: From Cell to Society
2013	EPID 889: Special Topics in CVD Epidemiology
2014	ENV 442 - TOX 442: Biochemical and Molecular Toxicology
2014	NUTR 696-018: Nutrition and Population Genetics
2015-2024	EPI 735: Cardiovascular Epidemiology
2017	EPI 711/ PUBH 760: Clinical Measurement and Evaluation

School of Medicine

2023-24	PATH 767: Cardiovascular Pathology
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College of Public Health, University of Nebraska

2008	Chronic disease prevention and control: cardiovascular disease (online lecture)
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MENTORING

Student Advising

Doctoral Dissertation Committee

Member:

Bonnie Pedersen Joubert. “Malaria and HIV in Pregnancy study in Malawi”. UNC Department of Epidemiology, graduated May 2009. Currently a NIEHS Program Officer.

Lindsay Fernandes-Rhodes. “Acculturation and genetic susceptibility to obesity among U.S. Hispanics”. UNC Department of Epidemiology, graduated Spring/2016. Currently Assistant Professor in the Department of Biobehavioral Health at the Pennsylvania State University, PA

Amanda Eudy. “Gestational weight gain, metabolic syndrome, and pregnancy outcomes in women with systemic lupus erythematosus”. UNC Department of Epidemiology, graduated Spring/2016. Currently Assistant Professor of Medicine at Duke University.

Oumar Diallo. “Evaluation of health systems performance and the impact of a population-level interventions on mortality.” UNC Department of Epidemiology, graduated Spring/2022. Currently at EIS Officer at CDC

Laura Zhou. “Statistical Learning for Immunomics and Genomics”. UNC Department of Biostatistics, graduated Spring 2022. Currently Assistant Professor, Biostatistics, University of Indiana.

Eugenia Wong. “Psychological Well-Being and Cardiovascular Health in the Women’s Health Initiative”. UNC Department of Epidemiology, graduated May, 2024.

Bridget M Lin. “Methods for Integrative Analysis of Multi-omics Data” UNC Department of Biostatistics, graduated May 2024.

Carmen Mendoza. “Examining the Role of *Helicobacter pylori* Seroprevalence on the Epigenome and Association with Prevalent and Incident Hypertension and Type 2 Diabetes Mellitus”. University of North Carolina Department of Epidemiology, expected graduation 2025.

Shelby Fisher. TBA. UNC Department of Epidemiology, expected graduation May 2029.

Master Committee Member (MPH and MSPH)

Lindsay Fernandes-Rhodes. “The association of body mass index-related single nucleotide polymorphisms with age at menarche in the ReproGen Consortium”. UNC Department of Epidemiology, graduated May 2011.

Koyal Jain, MD. “Effects of Psychological Stress on Anti-neutrophil Cytoplasmic Autoantibody Vasculitis”. UNC Department of Epidemiology, graduated Fall 2019. Currently Associate Professor of Medicine, Division of Nephrology and Hypertension, UNC-CH.

Molly R Remch. “Hypertension Treatment and Control among Persons with HIV in Clinical Care in the Southeastern US”. UNC Department of Epidemiology, graduated 2020. Currently PhD graduate candidate at UNC Department of Epidemiology.

Liana Kerstin Preudhomme, Department of Psychology. “Genetic, Environmental, and Psychosocial Influence on the Prevalence of Hypertension among Hispanics/Latinos in the Hispanic Community Health Study/ Study of Latinos”. University of Miami, Miami, FL, graduated Spring/2020. Currently PhD graduate candidate at University of Miami, Department of Psychology.

Anisha Gerber, MD, UNC Department of Medicine, Division of Nephrology and Hypertension. “Association between epigenetic age acceleration at extremely preterm birth and systolic blood pressure in adolescence”, graduated May 2024. Currently, Assistant Professor, Division of Nephrology, University of Virginia, VA.

Other Mentorship

UNDERGRADUATE STUDENTS SUMMER PROGRAM & INDEPENDENT STUDIES

UNC Undergraduate Program

Cao Fang (Spring 2019, independent studies): Project: DNA methylation and chronic kidney disease

Ari T. Sholomon (Spring 2021): Project: website design for genetic summary statistics sharing

UNC Department of Epidemiology

Samson Okello, Ph.D. graduate candidate (2020). Project: Genetics of longitudinal blood pressure in Chilean children.

UNC Biological & Biomedical Sciences Program (BBSP)

Winnie Soerianto (2024), Ph.D. candidate in the BBSP, 10 weeks lab rotation.

POST-DOCTORAL FELLOWS

UNC Gillings School of Global Public Health, Department of Epidemiology

Tiana Garret, PhD MPH (2009-2011), EIS Officer, Center for Policy, Planning and Evaluation, Department of Health, Washington DC, currently faculty at School of Health Sciences, Walden University, Minneapolis, MN

Bridget Lin, PhD (2024-), University of North Carolina at Chapel Hill.

TRAINEES AT THE U.S. AND INTERNATIONAL INSTITUTIONS AND OTHER MENTORSHIP PROGRAMS

Boston University, Department of Environmental Sciences

Samantha Hall, PhD candidate (2023-), Member of the mentorship committee, NIH F31 predoctoral fellowship award application.

Center for Research on Genomics and Global Health, National Human Genome Research Institute, National Institutes of Health

K99/R00 Committee member of Karlijn Anna Catharina Meeks, Ph.D., NHGRI research fellow (awarded, DK131018, 2022-2027)

Co-mentor of Amy Bentley, Ph.D. (2022-), Scientist, NHGRI

International Society of Nephrology Education Ambassador Program (Mentorship)

1. Wesley van Hougenhouck-Tulleken, MD (2021-2022), University of Pretoria, Pretoria, South Africa, nephrologist.
2. Valeria Yahoska Sevilla Rubí, MD (2022-2023), Nicaragua, nephrology fellow.
3. Dianne Acoba (2023-2024), PhD candidate, Marie Curie Early Stage Researcher Translational Science & Experimental Medicine, Paris, France & AstraZeneca R&D Gothenburg Early Cardiovascular, Renal and Metabolism Biopharmaceuticals.

TRAINEE AWARDS* *Restricted to trainees directly mentored research (primary mentor)

1. Lindsay Fernández-Rhodes, MSPH, PhD (2009- 2016), Recipient, Rebecca James Baker Scholarship, Nancy A. Dreyer Scholarship in Epidemiology & 2022 Penn State Postdoctoral Society Outstanding Postdoc Mentor Award
2. Alpha Oumar Diallo, PhD (2020-2022), Recipient, Gates Millennium Foundation Scholarship
3. Segun Fatumo, PhD (2020-ongoing), Recipient, UK Wellcome International Intermediate Fellowship
4. Karlijn Anna Catharina Meeks, PhD (2021-ongoing), Recipient, K99/R00 award
5. Charles Breeze, PhD (2020-2023), Winner, 2022 NCI Cancer Health Disparities Award & Recipient, 2021 National Cancer Institute Outstanding Research Paper by a Fellow Award for paper: Epigenome-wide association study of kidney function identifies trans-ethnic and ethnic-specific loci. *Genome Med.* 2021 Apr 30;13(1):74.
6. Laura Zhou, PhD (2020-22), Recipient, UNC Barry H. Margolin Award for Excellence in Doctoral Research.
7. Anisha Gerber, MD, MPH (2022-2024), Recipient, International Society of Nephrology Clinical Research Award for project: “Assessing adolescent kidney health in a CKDu endemic region in India”.
8. Thibaut Davy-Mendez, PhD (2022-), Recipient, K01 award, NHLBI.
9. Eugenia Wong, PhD (2019-2024), Dissertation award, submitted

SERVICE

National and International Service

Editorial Board, Journals

- | | |
|-----------|--|
| 2024 | Guest Editor, Special Collection Genome Biology: Insights from trans-ancestral association study |
| 2021 | Guest Editor, Special Issue GENES: Genomics of Disease Risk in Diverse Populations |
| 2020- | Associate Editor, Contemporary Clinical Trials |
| 2019- | Board Member, Circulation: Genomic and Precision Medicine |
| 2014- | Board Member, American Journal of Physiology-Renal Physiology |
| 2011-2014 | Board Member, Cases Report in Nephrology |
| 2003-2009 | Board Member, Clinical Nephrology journal |

Committees, National Institutes of Health

- | | |
|-----------|--|
| 2022-2026 | Permanent member, NIH Review panel, Clinical Data Management and Analysis Study Section (CDMA) |
| 2015-2022 | <i>Ad hoc</i> reviewers, NIH several panels |
| 2007- | Strong Heart Study Renal Committee, NHLBI |
| 2002-2005 | Adult Aids Clinical Trials Group (AACTG) Renal Committee, NIAID |

Program Committee and Volunteering Activities, National and International Societies

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|------|---|
| 2022 | Chair, Women’s Health Initiative Ancillary Study Committee and Member of the Women’s Health Initiative Steering Committee |
| 2021 | Member, Controversies Conference on Genetics in Chronic Kidney Disease (CKD), KDIGO, International Society of Nephrology |

2021 Member, National Kidney Foundation, Basic Science Research Roundtable
 2020 Organizing committee, TOPMed 2020 F2F Virtual meeting
 2019-2022 Co-Chair, Women's Health Initiative Hypertension Sig
 2018- Member, American Heart Association Epidemiology Publication Committee
 2018-2022 Co-Chair, Women's Health Initiative Ancillary Study Committee
 2018 Member, American Society of Human Genetics Charles J. Epstein Trainee Award Committee
 2017-2022 Member, Women's Health Initiative Laboratory Working Group
 2012- Member, Women's Health Initiative Publication & Presentation Committee
 2010-2015 Membership Recruitment Committee, International Society of Genetic Epidemiology
 2008 Program Committee, International Genetic Epidemiology Society Meeting, St Louis, MO

Convener, Moderator and other Leadership Roles, Scientific Working Groups

2022 Moderator, "New Insights into Congenital Kidney Disease" virtual workshop, sponsor by NIDDK, September 28-29, 2022
 2021 Panel member, Working Group Leaders panel, CHARGE Virtual Meeting
 2021- Co-Chair, Genetic Testing in Kidney Disease Workshop- National Kidney Foundation
 2015- Moderator and Co-Convener, NHLBI TOPMed Kidney Working Group
 2014- Co-convener and founder, the Continental Origins and Genetic Epidemiology Network Kidney Consortium (COGENT-Kidney)
 2014 Co-Chair, Blood Pressure and Kidney Working Groups, Population Architecture using Genomics and Epidemiology II (PAGE II)
 2013-2016 Moderator, Renal, Blood Pressure and Peripheral Vascular Disease Genetic working groups, the Hispanic Community Health Study/Study of Latinos (HCHS/SOL)
 2010- Co-convener and founder, the Continental Origins and Genetic Epidemiology Network Blood Pressure Consortium (COGENT-BP)
 2008-2013 Convener, the CHARGE Consortium Protein Working Group (merged to inflammatory group)
 2008-2014 Chair, Cardiovascular Disease Working Group, Population Architecture using Genomics and Epidemiology (PAGE)

Moderator of Oral Abstract Sessions or Invited Sessions, Society Meetings

2023 American Society of Human Genetics, Moderator of abstract session
 2020 TOPMed 2020 F2F virtual meeting. Moderator of session: Abstract Invited Speaker Session.
 2020 CHARGE Consortium, Moderator of session: Novel Approaches, Houston, TX
 2019 American Society of Nephrology Kidney Week, Moderator of session: Genetic Diseases and the Kidneys, Washington, DC
 2018 American Society of Nephrology Kidney Week, Moderator of session: Personalizing CKD Care and Prevention: Lessons from the Genomics of Chronic Disease, San Diego, CA

- 2016 CHARGE Consortium, Moderator of session: Ascribing function to DNA sequence variants
- 2015 American Society of Nephrology Kidney Week, Moderator of abstract session: Biomarkers and Treatment Targets in Diabetic Nephropathy
- 2012 American Society of Human Genetics, Moderator of abstract session: GWAS from Head to Toe

In the media

2022 [Epigenetic research has a diversity problem, new study finds | Raleigh News & Observer \(newsobserver.com\)](https://www.newsobserver.com/news/technology/article263007653.html) available at:
<https://www.newsobserver.com/news/technology/article263007653.html>;