Kari E. North, PhD, MA, FAHA

Vice President of Border Health, Director of the Border Health Research Center, Professor of Epidemiology

UTHealth Houston School of Public Health, Professor of Internal Medicine, McGovern Medical School

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Summary

I am a talented and creative interdisciplinary leader of collaborative research, with an international reputation as an innovator and consortium builder. I have developed new initiatives and built partnerships across diverse constituents to advance science, drive innovation, and improve public health in the United States and globally, particularly in historically marginalized populations. My work as a senior scholar has been transformational in public health genomics. I have over 21 years' experience directing a continuously funded research program (30M in NIH research funding as principal investigator) of productive and collaborative research in molecular epidemiology, global public health, and cardiometabolic disease (CMD) science (591 peer-reviewed papers, 49,380 total citations, h-index of 100).

- Strong commitment to diversity, equity, inclusion, and justice
  - Extramural research program management and leadership
- Devoted to mentoring and career development
  - Advocate for research ethics and data sharing
- Dedicated to innovation and consortium building
- Passionate for public health scholarship

Experience

Administrative Accomplishments

Vice President of Border Health, Director of the Border Health Research Center (BHRC), Professor of Epidemiology, UTHealth Houston, Professor of Internal Medicine, McGovern Medical School **2025-present**

- As VP of Border Health, I strive to build collaborative clinical and population research opportunities across UTHealth Houston schools and with relevant governmental and academic partners.
- As Director of the Border Health Research Center, our mission is to improve population health broadly along the Texas border.
- As Professor of Epidemiology, I develop new initiatives and built partnerships across diverse constituents to advance science, drive innovation, and improve public health in the United States and globally, particularly in historically marginalized populations.

UNC-Chapel Hill, Associate Dean for Research **2024-2025**

- Chief research officer for the Gillings School and as the School's liaison to the UNC Office of the Vice Chancellor for Research.
- Leader of Gillings' research mission, upholding compliance standards while driving advocacy, collaboration and strategic funding initiatives for the School and in support of the entire University.

- Primary point person for overcoming research challenges and enhancing the Gillings School's overall research enterprise, including by helping to catalyze large research opportunities.

UNC-Chapel Hill, Dean's Council for Research **2019-Present**

- Supported the Associate Dean for Research in their role to create an ambitious, outcomes-oriented vision for the next era of Gillings Research.
- Facilitated communication between the Associate Dean's office and one of the largest and most well-funded Departments in the School of Public Health, Epidemiology.
- Supported the expansion of the Gillings Research office by adding new positions in proposal development and coordination, research partnerships, research compliance and pre-award support.
- Assisted in the development of research-oriented, career development workshops for faculty and staff.
- Assisted in an evidence-based review of the Gillings research portfolio to identify strategic investment priorities for research and Gillings' health equity research portfolio.
- Supported the creation of the inaugural Gillings Health Equity Faculty Research Award, which recognizes excellence in research by Gillings faculty that advances solutions to health inequities.
- Assisted in the development of operational tools and training to support NIH diversity supplement applications.

Scientific Leadership **2002-Present**

- Leader of CVD Genetic Epidemiology Computational Lab. Includes compensation and supervision of 3 Research faculty, 2 programmers, 1 IT position, 6 Predoctoral students and 3 Postdoctoral students, and collaboration with 20 faculty members from across the university.
- As principal investigator (PI) provided leadership and management of a 21-year, $30M NIH-funded research program and collaboration across an additional $115M interdisciplinary research team projects as co-investigator.
- Leader of NIH T32 grant on CVD Molecular Epidemiology. Supervise 3 Postdoctoral, 3 Predoctoral, and 40 Faculty Mentors. Currently in Year 08.
- Lead Investigator on the UNC Obesity Heterogeneity Creativity Hub a diverse team of 27 investigators from 16 departments, six schools, and leaders from five Centers/Institutes, leading to over $13M in follow-up funding across the Hub.
- Chair of (CHSA) NIH Study Section, 2017-2019.
- Founding member, MPI, Steering committee member, chair of the Ancestry, Race, and Ethnicity and Obesity working groups, in third five-year cycle of funding for the Population Architecture Genomics for Epidemiology- https://www.pagestudy.org.
- Steering committee member, 2013- currently, Chair of the Pleiotropy working group in Giant (Genetic Investigation of Anthropometric Traits) consortia.
- Steering committee member in CHARGE consortia- (**C**ohorts for **H**eart and **A**ging **R**esearch in **G**enomic **E**pidemiology) – Chair of obesity working group.
- Chair of UNC's Marshall Scholarships committee- 2017-2022, one of the most prestigious scholarships for US citizens.

Appointments

2025- **Vice President of Border Health, Director of Border Health Research Center, Professor of Epidemiology, Professor of Internal Medicine,**

UTHealth Houston School of Public Health, McGovern Medical School
Secondary appointment in the Human Genetics Center
Brownsville Region
780 Ringgold Road, Brownsville, TX 78520-4979

2024-2025 **Associate Dean for Research**
University of North Carolina, Department of Epidemiology, Gillings School of Global Public Health, Chapel Hill, NC

2014-2021 **Professor**
University of North Carolina, Department of Epidemiology, Gillings School of Global Public Health, Chapel Hill, NC

2007-2014 **Associate Professor with Tenure**
University of North Carolina, Department of Epidemiology, Chapel Hill, NC

2002-2007 **Assistant Professor, Tenure Track**
University of North Carolina, Department of Epidemiology, Chapel Hill, NC

2000-2002 **Post-doctoral Scientist**
Department of Genetics
Southwest Foundation for Biomedical Research, San Antonio, TX

1997 - 2000 **Senior Research Assistant**
Department of Genetics
Southwest Foundation for Biomedical Research, San Antonio, TX

1992 - 1994 **Research Assistant**
Department of Pharmacology
University of Kansas, Lawrence, KS

1992 - 1994 **Editorial Assistant**
Human Biology
The University of Kansas, Lawrence, KS

1992 **Summer Fellow**
National Institutes of Health
Animal Research Center, Poolesville, MD

Education

2000 **Doctor of Philosophy (with honors)**
Anthropological Genetics
University of Kansas

Dissertation: The Genetics of Cardiovascular Disease Risk Factors among American Indians of the Strong Heart Family Study Dakota Center.

Advisor: Dr. Michael Crawford and Dr. Jean MacCluer

1995 **Master of Arts (with honors)**

Anthropological Genetics

University of Kansas

Thesis: Spatial Variation of Anthropometric Traits in Ireland

Advisor: Dr. Michael Crawford

1992 **Bachelor of Arts Degree (with honors)**

Anthropology

University of South Florida

Thesis: The Communication of Chimpanzees: A Study on the Evolution of Pan and Homo.

Advisor: Dr. Lorena Madrigal.

Honors

2023 University of South Florida, College of Arts and Sciences, Distinguished Alumni Award

2021 CHARGE consortium Adrienne Cupples' mentor award

2020 Shiriki Kumanyika Diversity and Disparities Leadership Award for the Obesity Society

2018 Awarded creativity hub grant, University of North Carolina Chapel Hill

2018 Invited member of NHLBI sponsored Observational Study Monitoring Board for the MESA study

2017 Chairman of CHSA study section at the National Institutes of Health

2015 Invited participant to NHGRI RoundTable on Inclusion and Engagement of Underrepresented Populations in Genomic Research, September 2015

2011 Member of Review committee for the Helmholtz Institute, Munich

2005 American Heart Association's Sandra Daugherty award for excellence in cardiovascular disease and hypertension epidemiology (finalist)

Leadership/Service

UTHealth Houston School Of Public Health

University Service

Vice President, Border Health. 2025-

Director, Border Health Research Center. 2025-.

Member. Human Genetics Center. 2025-.

Member, SPH Executive Council. 2025-.
Member, CCTS Leadership committee. 2025-

Gilling's School of Public Health Department of Epidemiology

Member. Epidemiology Chair's Council. Department of Epidemiology. 2012-present.

Member. Admissions Committee. Department of Epidemiology. 2013-2015.

Member. SPH Greenberg Dissertation Award Committee. Department of Epidemiology. 2013.
Member. Graduate Studies Committee. Department of Epidemiology. 2012-2013.
Grant Reviewer. University of North Carolina Nutrition Obesity Research Center.
Chair. Search Committee Tenure Track Professor in Epidemiology. Nutrition Research Institute. 2011.
Member. Search Committee Research Assistant Professor in Clinical Epidemiology.2009.
Member. Space and Department Resources Committee. Department of Epidemiology. 2006-2009
Grant Reviewer. University of North Carolina at Chapel Hill Center for Environmental Health and Susceptibility (CEHS). 2005-2007.
Member. Staff Excellence Award Committee. Department of Epidemiology. 2006.
Member. SPH Greenberg Dissertation Award Committee. Department of Epidemiology. 2006

Organizer. Genetic Epidemiology Journal Club. 2002-2006.

State/National/International

Elected Committees

Member, Review Board Meeting for the External Evaluation of the DZHK on 14-15 March 2024 in Berlin.

Member. American Heart Association Nutrition, Physical Activity, Metabolism, and Obesity Committee. 2011-2017.

Member. Genetics of Anthropometric Traits (GIANT) Steering Committee. 2012-2017.
Member. Invited Review Board for Helmholz Zentrum München. 2011.

Invited Committees

Chair, CHARGE consortium Local hosts, December meeting 2025.

Chair, Ad-hoc, ZRG1 GGG-A (02), Member Conflict: Genes, Genomes and Genetics Member. March 2022.

Scientific Meeting Planning Committee. The Obesity Society Association Annual Conference. 2016-2019.

Chair. PAGE Publications Committee. 2012-2025.
Member. WHI Publications Committee. 2011-2025.
Member GWAS Catalog Advisory Board. 2013-2020
Member. Scientific Meeting Planning Committee. The American Diabetes Association Annual Conference. 2013.
Member. Scientific Meeting Planning Committee. The American Heart Association Council of Cardiovascular Epidemiology. 2013.
Member. Scientific Meeting Planning Committee. The American Heart Association Council of Cardiovascular Epidemiology. 2009.
Member Meeting Planning Committee. The International Genetic Epidemiological Society. 2009.
Member Meeting Planning Committee. The International Genetic Epidemiological Society. 2008.
Member. North Carolina Task Force on Genomics and Public Health. 2005-2006.

Invited Grant Reviews

Member of NIEHS BSC Review of the Epidemiology Branch. February 2026.

Member of NHGRI BSC Review of the Epidemiology Branch. November 2025.

Member of NIDDK BSC Review of the Epidemiology Branch. November 2023.

Co-chair, Ad-hoc, ZRG1 IVBH-A (51) Review Panel on June 30, 2023.

Chair, Ad-hoc, ZRG1 GGG-A (02), Member Conflict: Genes, Genomes and Genetics Member. March 2022.

Reviewer, Ad-hoc, NIH special emphasis panel on Cardiovascular topics. February 2022.

Member of NIEHS BSC Review of the Epidemiology Branch. November 2021.

Grant Reviewer NIH. Ad-Hoc, ZRG1 EMNR J. November 2021.
Ad-Hoc NIH Study Section Member (CCHS Study Section). June 2021.
Grant Reviewer. Ad-Hoc NIH Study Section Member (ZRGI MOSS-R-70 Study Section). May 2021.
Grant Reviewer. Ad-Hoc NIH Study Section Member (CHSB Study Section). June 2020.
Grant Reviewer. Ad-Hoc NIH Study Section Member (CHSB Study Section). October 2020.
Chair. Cancer, Heart, and Sleep Epidemiology A Study Section. 2017-2019.
Co-chair. American Heart Association Research Program Grant Reviewer. 2015.
Grants Reviewer. American Heart Association Research Program Reviewer. 2014.
Permanent Grant. Cardiovascular and Sleep Epidemiology Study Section Reviewer. 2013-2019.
Grant Reviewer. James and Ester King Biomedical Research Program managed by the Florida Department of Health. 2012.
Grant Reviewer. Ad-Hoc NIH Study Section Member (NHGRI GNM-G Study Section). 2012.
Grant Reviewer. Distinguished Editorial Panel for the review of applications submitted to OD-11-003: Specialized Centers of Research (SCOR) on Sex Differences (P50).
Grant Reviewer. James and Ester King Biomedical Research Program managed by the Florida Department of Health. 2011.
Grant Reviewer. Ad-Hoc NIH Study Section Member (ZRGI Study Section). 2009.
Grant Reviewer. Ad-Hoc NIH Study Section Member (ZRGI Study Section). 2008.
Grant Reviewer. Ad-Hoc NIH Study Section Member (GWAS Study Section). 2008.
Grant Reviewer. Ad-Hoc NIH Study Section Member (ZAGI Study Section). 2008.
Grant Reviewer. Ad-Hoc NIH Study Section Member (CICS Study Section). 2006-2007.
Grant Reviewer. James and Ester King Biomedical Research Program managed by the Florida Department of Health. 2005-2007.

Grant Reviewer. Ad-Hoc NIH Study Section Member (NIH Study Section Clinical Hematology Special Emphasis Panel).2005-2006.

Grant Reviewer. Ad-Hoc NIH Study Section reviewer (NIMH, Review of Pharmacogenomics of Mood and Anxiety Disorders, Special Emphasis Panels). 2004.

Grant Reviewer. Framingham Heart Study. Boston University. Grant Reviewer. 2003.

Invited Session Chairman

The Obesity Society Annual Conference Heterogeneity of Obesity.2017.

The Obesity Society Annual Conference Session on Precision Phenotyping. 2016.
American Heart Association Council of Epidemiology Session on Genetic Epidemiology March. 2014.
The Obesity Society Annual Conference Session on Genetics-November. 2014.
American Diabetes Association Annual Conference Session on Genetics-June. 2013.
American Heart Association Council of Epidemiology Session on Genetic Epidemiology-March.2013
The Obesity Society Annual Conference Session on Genetics-November. 2012.
American Heart Association Council of Epidemiology Session on Genetic Epidemiology-March. 2012.
The Obesity Society Annual Conference Session on Genetics-October. 2011.
American Heart Association Council of Epidemiology Session on Genetic Epidemiology Session on Genetic Epidemiology-March 2010.
The Obesity Society Annual Conference Session on Genetics-November. 2010.
The Inter-Disciplinary Obesity Center Seminar “The Genetic Epidemiology of Adiposity Phenotypes”. 2009
American Heart Association Council of Epidemiology Annual Conference Trainee Session on Cardiovascular Disease. 2008.

The Obesity Society Annual Conference Session on Gene-Environment Interaction. 2007.
The Obesity Society Annual Conference Session on Gene-Environment Interaction. 2006.
American Heart Association Council on Epidemiology Annual Conference Session on Cardiovascular Disease Risk Factors. 2004.

Member Editorial Board

Frontiers Genetic Epidemiology. May 2011-May 2021.

Journal of Medical Genetics. May 2010-May 2015.
Gastroenterology. May 2005-May 2010.

Guest Member of Editorial Board

Circulation. May 2009-current.

Invited Manuscript Review

Journals

Atherosclerosis, Thrombosis, and Vascular Biology

American Journal of Epidemiology
American Journal of Hypertension
American Journal of the Medical Association
American Journal of Physical Anthropology
Atherosclerosis
Biomed Central Genetics
Circulation
Diabetes
Diabetes Metabolism Research and Reviews
Epidemiology
Gastroenterology
Human Biology
Human Genetics
Journal of American Medical Association
Journal of clinical Endocrinology and Metabolism
Nature
Nature Genetics
Nature communications
Neurology
Obesity
PLos One
PLos Genetics
Science

Studies

PAGE/Calico Study
Family Heart Study
HyperGEN Study
Framingham Heart Study
ARIC Study
WHI Study

HCHS/SOL

Santiago Longitudinal Cohort Study

Tsimane

Invited Abstract Reviews

American Heart Association Council on Epidemiology National Meetings. 2007-current.
The Obesity Society National Meetings. 2005-current.
American Society of Human Genetics. 2010, 2011, 2013, 2014.
American Diabetes Association. 2013.
International Genetic Epidemiology Society National Meetings. 2008-2010.

Teaching/Mentoring/Impact

Invited Presentations

1. Border Health Research Center, UTHealth Texas El Paso campus, September 2025.
2. Longitudinal proteomics of body mass index (BMI) in the Cameron County Hispanic Cohort. Texas Public Health Association, May 2025.
3. Multi-omics and research disparities: Turning a new leaf. UTHealth Texas Brownsville campus, November 2024.
4. Turning a new leaf: Using an integrative multi-omics approach to address health disparities in obesity The Intersection of Genomics and Nutrition. Nutrigenomics Short Course. June 2024. AMGEN Seminar series.
5. Multi-omics analyses reveal key signaling pathways underlying severe obesity in a high risk, understudied population of Mexican Americans, Seminario Internacional de Medicina Genómica, Mexico City, Mexico, June 9, 2023
6. High-Dimensional Multi-omic characterization of severe obesity in Mexican American Populations, World Applied Anthropology Congress-2023, Lawrence, KS, June 9, 2023.
7. CHARGE Ahead: My Scientific Journey and the Importance of Collaboration. Charge consortium Spring meeting. May 2023.
8. Multi-omics analyses reveal key signaling pathways underlying severe obesity in a high risk, The University of Queensland's Institute for Molecular Bioscience in Brisbane Australia Seminar Series. April 2023.
9. My Scientific Journey. Seminar Series of Distinguished Alumni 2023. University of South Florida, Tampa, FL, April 2023.
10. Genomics and Research Disparities: Turning a New Leaf. Penn Conference on Big Data in Biomedical and Population Health Sciences, College Station, PA. September 2022.
11. Health disparities and the genetic underpinnings of obesity. Genomics and Health Disparities Lecture Series, NHLBI, Bethesda, MD. March 2022.
12. Ensuring that Precision Medicine is Accessible to Diverse Communities. The Jean MacCluer and Bennett Dyke Endowed Lectureship, UTGRV, Brownsville, TX. February 2022.
13. Transdisciplinary Approaches for Precision Research and Treatment, UNC Research Week, November 2021.
14. The Importance of Diversity in Understanding the Genetic Underpinnings of Disease. November 2021, The American Heart Association Annual conference.
15. The Importance of Diversity in Understanding the Genetic Underpinnings of Disease. December 2021, Wake Forest University Seminar series.

16. The Importance of Diversity in Understanding the Genetic Underpinnings of Disease. The Jean MacCluer and Bennett Dyke Endowed Lectureship. August 2021.
17. The Intersection of Genomics and Nutrition. Nutrigenomics Short Course. June 2021.
18. The COVID-19 Hispanic/Latinx Project. Google Workshop. January 2021.
19. Integrative approaches to identify function and significance of cardiovascular disease susceptibility genes. Harvard University, October 2020.
20. Precision medicine to precision public health. University of North Carolina. April 2020.
21. Genetics in Nutrition Epidemiology. University of North Carolina. March 2020.
22. The future of genomic studies must be globally representative. Molecular Medicine Tri-Conference. March 2020.
23. The Intersection of Genomics and Nutrition. Nutrigenomics Short Course. June 2019.
24. The Importance of Diversity in Understanding Complex Traits. University of Texas at Brownsville, Medical School Grand Rounds. March 2019.
25. Genetics in Nutrition Epidemiology. March 2019.
26. Integrating Genetic Variation in Nutritional Epidemiology Studies- Essential; Concepts and Methods. April 2019.
27. Ethical, Legal and Social Implications of Genomics Research. UNC. September 2018.
28. The Genetic Epidemiology of Weight Change. Rutgers University October 2018.
29. Genetic and Environmental Influences on Body Weight throughout the Lifecourse. TOS. November 2018.
30. Genetic diversity turns a new PAGE in our understanding of complex traits. Vanderbilt University October 2018.
31. Obesity: A Massive Problem. Duke University. November 2018.
32. The Intersection of Genomics and Nutrition. Nutrigenomics Short Course. June 2018.
33. Integrating Genetic Variation in Nutritional Epidemiology Studies- Essential; Concepts and Methods. April 2018.
34. Genetic Diversity Turns a New Page in our Understanding of Cardiovascular Disease. McAllister Heart Institute Seminar Series. October 10, 2017
35. Heterogeneity of Obesity: Implication for Precision Medicine. The Obesity Society Annual Conference. December 2, 2017.Sources of Heterogeneity of Obesity. The Obesity Society Annual Conference. December 1, 2017.
36. The Genetic Epidemiology of Weight Gain. National Institutes of Health Weight Loss Consortium. August 29,2017.
37. Genetic Predisposition to Obesity and Cardiometabolic Disease. America Heart Association Scientific Sessions. November 13, 2017.
38. Genetic Diversity turns a new PAGE in our Understanding of Complex Traits. Grands Rounds at Cedars Sinai, Institute for Cardiovascular Disease. December 5,2017.
39. The Santiago Longitudinal Cohort Study: Genetic Predisposition to Cardiometabolic Risk. Institute of Nutrition and Food Technology (INTA) at the University of Chile, December 15,2016.
40. Obesity Promoting Genes in an Obesity Promoting Word. University of North Carolina School of Medicine. 2016.

41. Obesity Promoting Genes in an Obesity Promoting World. University of California San Diego. Pediatric Series. 2015.
42. The Importance of Multi-Ethnic Studies in the Genetic Epidemiology of Cardiometabolic Traits. Broom Demography Lecture Series. University of California Santa Barbara. 2015.
43. The Search for Obesity Promoting Genes in an Obesity Promoting World. International Cardiovascular Disease Meeting. 2015.
44. The Genetic Epidemiology of Obesity. The University of Texas Human Genetics Center Seminar Series. 2013.
45. The Genetic Epidemiology of Obesity. Vanderbilt University Genomics Seminar Series. 2011.
46. The Generalization of GWAS Based Genetic Effects for Lipid Traits in African Americans: The PAGE Study. The American Heart Association Council on Epidemiology National Meeting. 2011.
47. The Genetic Epidemiology of Cardiovascular Disease Risk Factors. Triangle Statistical Genetics Conference. 2011.
48. Population Diversity and GWAS-based Genetic Variants for Lipid Traits: The PAGE Study. The University of North Carolina at Chapel Hill Cardiovascular Disease Epidemiology Seminar Series. 2010.
49. Genetic Epidemiology of Obesity. The University of Texas Human Genetics Center Seminar Series. 2009.
50. The Genetic Epidemiology of Obesity: The New Frontier. The Medical University of South Carolina Cardiovascular Disease Epidemiology Seminar Series. 2009.
51. The Genetic Epidemiology of Cardiovascular Disease Risk Factors: Obesity. Invited Lunch with Dean of Gilling's School of Public Health at the University of North Carolina at Chapel Hill. 2009.
52. The Genetic Epidemiology of Obesity: The New Frontier. The University of North Carolina at Chapel Hill Cardiovascular Disease Epidemiology Seminar Series. 2008.
53. Genetics 101. The Obesity Society Annual Conference. 2008.
54. The Genetics of Cardiovascular Disease Risk Factors in American Indians and Alaska Natives.: The Strong Heart and GOCADAN Studies. American Association of Physical Anthropologists Annual National Conference. 2006.
55. QTL-Specific Genotype-by-smoking interaction and burden of coronary atherosclerosis: The NHLBI Family Heart Study. National Institute of Environmental Health Sciences (NIEHS). 2005.
56. Genotype by Sex Interaction in the Pathogenesis of Obesity: Evidence for Sex Specific QTLs in Participants of the HyperGen Study. Wake Forest University Genomics Seminar. 2005.
57. The Interplay of Genes and Environment in the Pathogenesis of Obesity. The Obesity Society Annual Conference. 2005.
58. The Genetic Epidemiology of CVD Risk Factors in American Indians: Strong Heart Study. The University of North Carolina at Chapel Hill Cardiovascular Disease Epidemiology Seminar Series. 2004.
59. The Genetic Epidemiology of CVD Risk Factors. The University of North Carolina at Chapel Hill. Carolina Center for Genome Sciences Seminar Series. 2003.

60. Searching for genes that jointly influence hypertension-related phenotypes: the HyperGen Study. The University of North Carolina at Chapel Hill Cardiovascular Disease Epidemiology Seminar Series. 2002.
61. The Problem of Race. The University of North Carolina at Chapel Hill Minority Health Conference. 2002

Teaching Experience

The University of North Carolina at Chapel Hill

1. Guest Instructor. Nutritional Epidemiology. Spring 2006-2010 and Spring 2014-2021
2. Guest Instructor. Functional Genomics. Spring 2013.
3. Lead Instructor. Genetic Epidemiology. Spring 2003 - 2021.
4. Co-Instructor. Advanced Genetic Epidemiology – OMICs of CVD . Fall 2020.
5. Co-Instructor. Advanced Genetic Epidemiology- Bioinformatics Annotations, Spring 2021
6. Co-Instructor. Advanced Genetic Epidemiology – High Throughput Data Analysis . Fall 2012, Fall 2014, Fall 2016.
7. Guest Instructor. Clinical Epidemiology. Spring 2010 and 2011.
8. Guest Instructor. Cardiovascular Disease Epidemiology. Fall 2003-2010, 2016-2017.
9. Guest Instructor. Obesity Epidemiology. Spring 2007-2009, 2018
10. Co-Instructor. Advanced Genetic Epidemiology. Spring 2008 and Fall 2009
11. Guest Instructor. Pharmacogenomics. Spring 2008.
12. Guest Instructor. Advanced Cardiovascular Disease Epidemiology. Spring 2007.
13. Guest Instructor. Physical Activity Epidemiology. Fall 2006.
14. Instructor. Two-Day Training Session on the SOLAR Variance Component Approach to Linkage Analysis. 2003 and 2004.

Invited Teaching – Lectures

1. Instructor. Co-taught with Dr. Tamar Sofer. Association Studies in Complex and Multiethnic Populations. The University of Washington, Summer Institute of Statistical Genetics. July 2017.
2. Guest Lecturer. University of Washington School of Medicine SOLAR Variance Component Approach. 2003.
3. Guest Instructor. Environmental Epidemiology. Duke's Nicholas School of the Environment. Fall 2004-2007, 2009-2011.
4. Lead Instructor. Summer Session in Genetic Epidemiology. University of Ulm, Germany
5. Lead Instructor. Summer Session in Genetic Epidemiology. University of Heidelberg, Germany. 2003, 2007, and 2010.

University of Kansas

1. Teaching Assistant. Fundamentals of Biology Anthropology. Department of Anthropology. 1994-1995 and 1997.
2. Instructor. Human Variation and Evolution. Department of Anthropology. 1995-1996.

Graduate Student Mentoring

Chair of Doctoral Committee (Project title, Anticipated Graduate Date)

1. Deep Shah. Heart Failure in BHRC. . Anticipated Graduation 2030.
2. Baiyu Qi- Genetic Epidemiology of Eating Disorders. Anticipated Graduation December 2025.

3. Samson Okello- Genetic Epidemiology of Hypertension and CVD. Anticipated Graduation December 2025.
4. Tay Glover- The Epigenomics of Diabetes: How SES gets under the skin. Graduated December 2022.
5. Xinruo Zhang- Genetic Epidemiology of Kidney Related Traits. Graduation December 2025.
6. Poojan Shrestha- Genetic Epidemiology of Pediatric Dental Caries. Graduated May 2023.
7. Daeeun Kim- Genetic Regulation of Adipokines and other Obesity Related Traits Across the Life Course. Anticipated Graduation May 2022.
8. Victoria Buchanan- Molecular mechanisms of obesity and CVD. Graduated May 2023.
9. Mohammad Yasser- Pleiotropy of obesity and inflammatory traits in Mexican American individuals of the Cameron County Hispanic Study. Graduated December 2020.
10. Ann Von Holle. Infatnt growth trajectories and Dyslipidemia. Graduated June 2018.
11. Shelly-Ann Love. Relationship of Ethanol Intake and Cognitive Decline, and Effect Modification by Ethanol Intake Genes. Graduated May 2019.
12. Melissa Caughey. Relationship between Sickle Cell Trait, Stroke, and MRI Measures of Infraction. Graduated May 2016.
13. Lindsay Fernandez Rhodes. Gene-Acculturation Interaction and Obesity. Graduated May 2016.
14. Yu Yan. Transcription Factor 7 like 2 (TCF7L2) Gene and Type 2 Diabetes. Graduated May 2009.
15. Huei-Ting Tsai. Association between Association between tardive dyskinesia and dopamine receptor genes among chronic schizophrenics: An ancillary study to the CATIE trial. Graduated May 2008.
16. Christy Avery- Genotype-by-Smoking interaction and risk of atherosclerosis. Graduated August 2007.
17. Mary Wojczynski- Characteristics of the Co-Morbidity of Irritable Bowel Syndrome: A Secondary Analysis of Existing Twin Data. Graduated May 2006.

Member of Doctoral Committee (Project title, Anticipated Graduation date)

1. Allie Bukoswki, Department of Epidemiology, Graduated May 2023.
2. Carolina Downie, Department of Epidemiology, Anticipated Graduation May 2024
3. Achal Patel, Department of Epidemiology, Graduated May 2022.
4. Wanying Zhu, Department of Epidemiology Vanderbilt University, Graduated, May 2023.
5. Humberto Parada, Department of Epidemiology, Graduated, May 2019.
6. Jason Collins, Department of Epidemiology. Anticipated Graduation, May 2023.
7. Bridget Lin, Department of Biostatistics, Graduated, May 2022.
8. Antoine Baldassari- Department of Epidemiology, Anticipated Graduation, May 2021.
9. Hung Shin Chen- Department of Genetics, Vanderbilt University, Graduated May 2020.
10. Rahul Gondolia. Department of Epidemiology. Graduated December 2018.
11. Ruixie Hou. Department of Nutrition. Graduated May 2019.
12. Chani Hodonsky. Department of Epidemiology. Graduated May 2019
13. Isaura Godinez. Department of Anthropology. Graduated May 2020.
14. Kristin Voltvke. Department of Epidemiology. Graduated May 2018.
15. Xiofan Xu. Department of Nutrition. Graduated May 2019
16. Ayedole Gomih. Department of Epidemiology. Graduated May 2019.
17. Ran Tao. Department of Biostatistics. Graduated May 2016.
18. Amanda Seyerle. Department of Epidemiology. Graduated May 2016.
19. Sebastian Hidalgo. Department of Biostatistics. Graduated May 2018
20. Meredith Eastman. Department of Health Behavior. Graduated May 2018

21. Xuan-Chieh Huang. Association studies with imputed variants using expectation-maximization likelihood ratio tests. Graduated May 2015.
22. Qing-Quan. Curriculum in Bioinformatics and Computational Biology. High Throughput Imputation in Admixed Population. Graduated May 2015.
23. Abo Nour- Department of Toxicology and Pharmacology. Graduated 2015.
24. Shawyntee Vertilus. Magnesium in Cardiovascular Disease. Graduated May 2017.
25. Andrea Richardson. Department of Nutrition. Gene by Physical Activity Interaction and the Pathogenesis of Obesity. Graduated May 2015.
26. Gabi Griffin. Department of Genetics. Exome Sequencing to Identify Rare Variants that Contribute to Familial Diseases Graduated May 2014.
27. Niha Zubair. Department of Nutrition. Clustering and Determinants of Cardio metabolic Risk Factors among Filipino Young Adults Graduated May 2013.
28. Gregory Mahew. Department of Biostatistics. Genotype – Phenotype Similarity: Testing and Methods for Integration of Multiple Data Sources in Genetic Association .Graduated May 2013.
29. Jackie Ellis. Department of Genetics. Evidence for smoking dependent genetic effects on C-reactive protein levels in a multi-ethnic cohort setting Graduated May 2013.
30. Kimon Davaris. The association of genetic variants with dental health measures in the ARIC study Graduated May 2012.
31. Lauren McCullough. Modifying Effects of DNA Repair and Oxidative Stress Variant on Physical Activity and Breast Cancer Risk. Graduated May 2012
32. Eva Katz - The association of body weight and circumferences with metabolic risk factors in Chinese men and women. Graduated May 2011.
33. Anne Hakenewerth. Joint effects of alcohol consumption and polymorphisms in alcohol-processing and oxidative stress genes on risk and survival from head and neck cancer. Graduated May 2011.
34. Bonnie Pederson Joubert. Genetic Predisposition to Malarial Transmission from Mother to Child. Graduated May 2010.
35. Elizabeth Hodgson. Case-only analyses of interaction Graduated May 2010.
36. Amy Webb. Department of Genetics. Genetic Response to Alcohol: Linkage and Association Studies. Graduated 2010.
37. Natalie The. Department of Nutrition. The Prevalence of Severe Obesity in Adolescents. Graduated December 2009.
38. Lindsey Ho. Department of Biostatistics. Haplotype Sharing Methods. Graduated December 2009.
39. Sarah Cohen. Adiponectin Genetic Variants and BMI in African American and Caucasian Women. Graduated 2009.
40. Whitney Robinson. U.S. Blacks' obesity gender disparity: the role of adolescent family. Graduated July 2008.
41. Arpita Ghosh. Department of Biostatistics. Estimating odds ratios in genome scans: an approximate conditional likelihood approach. Graduated May 2008.
42. Ying Liu. Department of Nutrition. Role of Peer Influence on Shaping Physical Activity in American Adolescents. Graduated May 2008.
43. Hind Muallem. Department of Pathology and Lab Medicine. Interaction between APOE and LDLR polymorphisms' in the pathogenesis of atherosclerosis. Graduated May 2008.
44. Aimee D 'Alosio. Insulin-like growth factor polymorphisms and uterine leiomyomas. Graduated December 2007.
45. Amanda Golembesky. Peroxisome proliferator-activated receptor-alpha gene, obesity and breast cancer incidence and survival: a LIBCSP ancillary study. Graduated December 2007.

46. Demetra Stamm. Department of Genetics. Genetic Basis of Neural Tube Defects. Graduated August 2007.
47. Bevan Emma Huang. Department of Biostatistics. Statistical Aspects of Haplotype-Based Association Studies. Graduated August 2007.
48. Craig Lee- School of Pharmacy. CYP2J2 derived eicosanoids and endothelial function. Graduated December 2006.
49. Martha Fellini. Reproductive factors and DNA repair polymorphisms XRCC1 and MGMT associated with adult-onset gliomas. Graduated August 2006.
50. Kyna McCullough Gooden. Genes that affect estrogen metabolism and their relationship to uterine fibroid size. Graduated May 2006.
51. Guoqing Diao. Department of Biostatistics. Semi parametric models for mapping quantitative trait loci in experimental designs and general pedigrees. Graduated May 2006.
52. Dhelia Williamson. Evaluation of serum immunoglobulin among individuals living near six Superfund sites. Graduated May 2005.
53. Melissa Nelson. Obesity, Physical Activity, and the Neighborhood Environment. Graduated May 2005.
54. Leah Sansbury. Use of NSAIDs, COX-2 Polymorphism, and risk of colon cancer. Graduated May 2005.
55. Kui Huang. Cigarette smoking, phase II metabolic gene polymorphisms (GSTM1/GSTT1), DNA repair gene polymorphisms (XPD/XRCC1/XRCC3), and colon cancer in a population-based case control study. Graduated May 2004.
56. Szu-Yun Leu. Department of Biostatistics. Non-homogeneous Poisson model for Genetic Crossover Interference Graduated May 2004.

Chair of master's Committee (Project title, Anticipated Graduation date)

1. Aylin Memli. UNC Chapel Hill.
2. Van Loo Marlon. University of Antwerp, Belgium. Sex differences in the association between obesity biomarkers and body fat mass. Graduated December 2018.
3. Lindsay Fernandez-Rhodes. Association of adiposity genetic variants with menarche timing in 92,104 women of the European descent Graduated May 2012.
4. Amy Mottl. Linkage Analysis of Renal Disease in American Indian Populations: The Strong Heart Study. Graduated December 2006.

Member of master's Committee (Project title, Anticipated Graduation date)

1. Antoine Baldassari- Department of Epidemiology, Graduation, May 2020.
2. Anthony Abrantes. Classifying Mislabeled High-dimensional Data with Iterated Supervised PCA. Graduated May 2015.
3. Melanie Napier. Organic Solvents and Multiple Sclerosis: Exploring Potential Gene-Environment Interactions. Graduated May 2012
4. Jaime Lucove. Metabolic syndrome and kidney function: The Strong Heart Study. Graduated May 2006.
5. Melissa Troester.CYP1B1 and CYP3A4 Polymorphisms Modify Breast Cancer Risk Associated with Oral Contraceptives in the Carolina Breast Cancer Study. Graduated May 2006.
6. Tasha Smith- TGF-β1 Leu10Pro Genotype and Breast Cancer Risk. Graduated May 2005.

Mentorship of Postdoctoral Fellows

1. Allie Bukowski, Post-Doctoral Fellowship. 2024 – 2025.
2. Victoria Buchanan, Post-Doctoral Fellowship. 2023 – 2025.
3. Mohan Krishnan, Post Doctoral Fellowship. 2022-2024

4. Priya Sharma, Post-Doctoral Fellowship. 2022 – 2024.
5. Jungkyun Seo, Post-Doctoral Fellowship. 2021 – 2024.
6. Mohammad Yaser- Post-Doctoral Fellowship. 2021-2023.
7. Harold Lee- Post-Doctoral Fellowship Taking Genetics into account in clinical trials. 2021-2022.
8. Matthew Brown- Post-Doctoral Fellowship in Genetic Epidemiology. 2019-2021.
9. Ruixie Hou. Post-Doctoral Fellowship in Genetic Epidemiology. 2019-2020.
10. Shelly Ann Love. Post-Doctoral Fellowship in Genetic Epidemiology. 2018-current.
11. Heather Highland. Post-Doctoral Fellowship in Genetic Epidemiology. 2015-2020.
12. Cary Agler. Post-Doctoral Fellowship in Genetic Epidemiology. 2014-2020.
13. Kristin Young. Post-Doctoral Fellowship in Genetic Epidemiology. 2012-2015.
14. Maria Elisa Graff. Post-Doctoral Fellowship in Genetic Epidemiology. 2009-2013.
15. Kira Taylor. Post-Doctoral Fellowship in Genetic Epidemiology. 2009-2011.
16. Tiana Garrett. Post-Doctoral Fellowship in Genetic Epidemiology. 2009-2011.
17. Keri Monda. Post-Doctoral Fellowship in Genetic Epidemiology. 2006-2009.
18. Nora Franceschini. Post-Doctoral Fellowship in Genetic Epidemiology. 2005-2007.
19. MJ Mosher. Post-Doctoral Fellowship in Genetic Epidemiology.2003-2005.

Mentorship of Junior Faculty Members

1. Melissa Chernoff-Munn. Assistant Professor of Psychology. 2018-2024.
2. Heather Highland. Research Professor in Genetic Epidemiology. 2020-current.
3. Kristin Young. Department of Epidemiology. Gilling's School of Public Health. 2015-current.
4. Misa Graff. Department of Epidemiology. Gilling's School of Public Health. 2015-current.
5. Jessica Baker. Department of Genetics. University of North Carolina School of Medicine. 2014- current.
6. Tracy Manuck. Department of Obstetrics and Gynecology. University of North Carolina School of Medicine. 2012- current.
7. Jennifer Wu. Department of Obstetrics and Gynecology. University of North Carolina School of Medicine. 2012- current.
8. Debra Irwin. Department of Epidemiology. Gilling's School of Public Health. 2009-2014.
9. Nora Franceschini. Department of Epidemiology. Gilling's School of Public Health. 2009-2012.
10. Keri Monda. Department of Epidemiology. Gilling's School of Public Health. 2009-2011.
11. Jeannette Bensen. Department of Epidemiology. Gilling's School of Public Health. 2008-2010.

Grant Support

Current Research Grants

Advancing the Genomics Knowledge Base for Oral Diseases, Project Id 0020694**,** Start / End Date 09/01/2025 - 09/01/2025**,** University of Pittsburgh (UPITT)/National Institute of Dental & Craniofacial Research/NIH/DHHS (NIDCR)

Obesity Subtypes and Risk of Obesity-Related Conditions, Project Id 0020598, 08/11/2025 - 02/11/2027, Amgen, Inc. (AMGN) Faculty Role PD/PI Total Direct Costs $224,125.00. Total Indirect Costs $125,510.00

Vanderbilt-coordinated human Virome Characterization Center (V2C2). Establish the structure and diversity of the human virome across multiple anatomical sites across the lifespan in well-characterized longitudinal cohorts; 2) evaluate the relation of the human virome to host commensal microbiome and immunity; and 3) identify features of the human virome linked to human disease development over time, 07/2024-06/2029, $1,343,827 (UNC total) **MPI North**

Integrative multi-omics for discovery of molecular pathways associated with diabetic retinopathy. Analyze blood samples from CCHC participants to quantify transcripts (Aim 1) and proteins (Aim 2) differentially expressed in blood in DR (vs healthy controls and participants with diabetes without DR)**.** Status of Support: Pending, **NORTH MPI,** 04/2024-03/2029, $ 753,100

Hispanic Community Health Study – Study of Latinos (HCHS-SOL) – Coordinating Center (75N92019D00010). National Institute of Health, National Heart, Lung, and Blood Institute. Principal Investigator Cai; Co-Investigator North. 12/01/18-11/30/24. Total Award Amount (including Indirect Costs): $1,729,566

Leveraging multi-omics approaches to examine metabolic challenges of obesity in relation to cardiovascular diseases (R01HL143885). National Institute of Health, National Heart, Lung, and Blood Institute. **MPI:** Gordon-Larsen (Contact), **North,** Avery, Sumner. 04/01/2019 – 03/31/2024. Direct Costs: $6,155,986

UNC MACS/WIHS Combined Cohort Study Clinical Research Site (U01HL146194). National Institute of Health. Principal Investigator Adimora, **Co-I North**. 04/01/19 - 03/31/26. Direct Costs: $2,284,325

The Hispanic Latino Lipid Consortium (R01HL142302). National Institute of Health, National Heart, Lung, and Blood Institute. MPI: Below (contact), **MPI North**, McCormick. 05/01/18-04/30/26. Direct Costs: $2,284,325

Polygenic Risk Scores for Diverse Populations – Bridging Research and Clinical Care (R01HL151152). National Institute of Health, National Heart, Lung, and Blood Institute. MPIs Kooperberg (contact), **MPI North**, Gignoux. 08/20/20 – 06/30/24. Direct costs: $348,847

Integrative Approaches to Identifying Function and Clinical Significance of Adiposity Susceptibility Genes (R01 DK122503). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. **MPIs North (contact),** Liu, Justice. 10/01/2020-09/30/2025. Total Award Amount (including Indirect Costs): $3,433,825

TOPMed: MultiOMICs of the Hispanic Community Health Study/Study of Latinos (X01HL143621). National Institute of Health, National Heart, Lung, and Blood Institute. **Principal Investigator North.** 04/01/21-03/31/24. No direct costs- resource generation

Multi-omics for obesity-associated liver disease discovery in Hispanics/Latinos: the Cameron County Hispanic Cohort To design and implement a study of liver disease progression in an understudied, high-risk HL population. Project Number: 1U01CA288325-01 Name of PD/PI: J. McCormick (UTHSC at Houston) **NORTH MPI,** Source of Support: NIH/NCI 09/01/2023-8/31/2028 , $706,616

Epidemiology of diet, metabolism and non-alcoholic fatty liver disease in Hispanic/Latino Adults New R01 to continue the research area of gut microbiome in SOL (GOLD) in response to PAR-20-088. The field center/CC activities will continue what we did before, having participants at the four field centers self-collect specimens which will be mailed in to be archived at the Burk Einstein lab. Project Number: R01DK134672, **North Co-I,** 03/24-07/24, $33,328

Epidemiology Estimates of AATD in the US. This study aims to (1) estimate the overall prevalence of AATD in the United States, (2) characterize the AATD population, and (3) examine the natural history and predictors of liver disease progression. Name of PD/PI: North , Source of Support: Takeda Pharmaceuticals Primary Place of Performance: The University of 11/2023-10/2024, $ 394,355 **North PI**

<u>Past Training Grants</u>

Genetic Epidemiology of Heart, Lung, and Blood Traits (GenHLB) (T32HL129982). National Institutes of Health, National Heart, Lung, and Blood Institute. MPI: North (contact), Mohlke 05/01/2016-5/31/2026. Direct costs: $2,269,439

Under Review or Pending Funding

Completed Funding

A Multi-Ancestry Study of Gene-Lifestyle Interactions and Multi-Omics in Cardiometabolic Traits (R01HL156991). National Institute of Health, National Heart, Lung, and Blood Institute.

Principal Investigator Rao, Co-Investigator North. 04/01/2021-03/31/2025. Total Award Amount (direct plus indirect cost for Competitive Segment): $224,531

Nutritional Omics of Pulmonary Function Decline (R01HL149352). National Institute of Health, National Heart, Lung, and Blood Institute. Principal Investigator Hancock. Co-Investigator North. 09/21/19-07/31/24. Direct costs: $686,112

UNC Nutrition Obesity Research Center (5P30DK056350). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. 04/01/2020-03/31/2026. Direct costs: $1,057,486.

Genetic and Epidemiological Predictors of Glucose Homeostasis Measures. (R01DK118062). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. Allred Principal Investigator. Co-Investigator North. 4/1/19-1/31/24. Direct costs: $514,965

Risk Factors for Asymptomatic Diverticulosis (R01DK094738). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. Principal Investigator: Sandler, Co-Investigator North. 07/01/18-04/30/24. Direct costs $351,333.

PAGE III: Population Architecture Using Genomics and Epidemiology (R01HG010297). National Institute of Health, National Human Genome Research Institute. MPIs: Matise (contact), Kooperberg, and Gignoux. Co-Investigator North. 06/15/2019-03/31/24. Direct costs: $1,283,491

Statistical Methods in Trans-Omics Chronic Disease Research (R01HG009974). National Institute of Health. Principal Investigator Lin, Co-Investigator North. 04/01/19 - 01/31/24. Direct costs: $200,000.

Genotyping of the ZOE 2.0 Pediatric Oral Health Cohort Study (X01HG010871). National Institute of Health, National Human Genome Research Institute. Principal Investigator Divaris. Co-Investigator North. 04/01/19-03/31/21. No direct costs- resource generation.

Unrestricted gift made to UNC that will be used for Dr. North to study the Molecular mechanisms underlying susceptibility to SARS-CoV-2 and variability in COVID-19 outcomes in a vulnerable population. Google Gift Fund. Google, LLC. Principal Investigator North. 04/01/22-03/31/23. Direct costs $500,000.

Exome Variants Underlying Weight Gain from Adolescence to Adulthood (R01HD057194). Competing Continuation. National Institutes of Health, *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. Principal Investigator: Gordon-Larsen. Co-Investigator North. 4/01/2014-3/31/2019. Direct Costs: $2,499,169.

UNC Creativity Hub Heterogeneity in Obesity: Transdisciplinary Approaches for Precision Research and Treatment. UNC Office of the Vice Chancellor for Research Creativity Hubs Pilot Award. Gordon-Larsen PI, 07/01/18-06/30/21. Gordon-Larsen PI, Co-Investigator North. Direct costs: $500,000.

Gene-Environment Interactions and Weight Gain (R01HD057194). National Institutes of Health, *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. Principal Investigator: Gordon-Larsen. 07/01/2008-06/30/2013. Direct Costs: $2,634,828

Gene-Environment Determinants of Obesity and Metabolic Risk across the Lifecourse (R01DK103552). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. Principal Investigator: North. 07/01/2014 – 06/30/2018. Direct Costs: $2,117,022.

Genetic Architecture of Adiposity in Multiple Large Cohorts (R01-DK089256). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. MPIs Baranski (contact), Borecki, Cupples, and North. 09/10/10-06/30/18. Direct costs: $565,805

Hispanic Community Health Study (N01HC65233). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator: Cai; Co-Investigator North. 09/30/06-05/31/20. Direct costs: $3,110,018

Genome-Wide Association Study of Early Childhood Caries. National Institutes of Health, National Institute of Dental and Craniofacial Research. Principal Investigator Divaris; Co-Investigator North. Direct costs: $760,864

Gut Microbiome in Latinos (GOLD) (R01MD011389). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. Principal Investigator Kaplan; Co-Investigator North. 07/08/16-2/28/18. Direct costs: $468,600

Population Architecture Using Genomics and Epidemiology (PAGE) Phase II – Study Investigators (U01HG007416). National Institute of Health, National Human Genome Research Institute. Principal Investigator: North. 07/01/17-11/30/21. Direct costs: $696,959.

Leveraging Ancestral Diversity to Map Adiposity Loci in Hispanics (R01DK101855). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. MPIs: North (contact), Haiman, Loos. 08/15/14-07/31/18. Direct costs: $1,450,000.

NHGRI Genome Sequencing Program Coordinating Center. National Institute of Health, National Human Genome Research Institute. Principal Investigator: Matise; Co-Investigator North. 1/14/16 -11/30/19. Direct costs: $56,538

Genetic Epidemiology of Casual Variants Across the Life Course (1U01HG004803). National Institute of Health, National Human Genome Research Institute. Principal Investigator: Heiss; Co-Investigator North. 07/17/08-05/31/14. Direct costs: $818,796

Genetic and Epidemiologic Predictors of Glucose Homeostasis in Hispanics (R01DK085175). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. Principal Investigator Rotter; Co-Investigator North. 06/1/12-05/31/14. Direct costs: $23,578

Genome-Wide Association Study of Periodontal Disease (R01DE021418). National Institutes of Health, National Institute of Dental and Craniofacial Research. Principal Investigator Offenbacher; Co-Investigator North. 07/1/11-06/30/14. Direct cost: $220,141

Genetic Epidemiology of Metabolic Diseases of Obesity (DK075681). National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases. Principal Investigator Borecki, Co-Investigator North. 04/1/08-03/31/13. Direct costs: $234,579

GO Grant Women's' Health Initiative (WHI) Sequencing Project. National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator North. 09/30/09-9/20/11. Direct costs: $588,890

NHLBI SHARE. GWAS Analysis for the Women's Health Initiative Study (A10-0347-001). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator North. 08/01/09-06/01/11. Direct costs: $748,000

Comprehensive Mapping of a Blood Pressure QTL on Chromosome 17 (1R01HL089651). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator North. 4/1/08-03/31/11. Direct costs: $744,788

Strong Heart Family Study (U01-HL-06-5520). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator Cole, Co-Investigator North. 06/01/05-03/31/10. Direct costs: $276,542

Atherosclerosis, Plaque and CVD in Communities (5U01 - HL0755). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator Heiss, Co-Investigator North. 07/01/04-06/30/08. Direct costs: $1,380,823.

Gene-by-Smoking Interaction and Risk of Atherosclerosis (1R01 HL074377). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator North. 07/01/03-06/30/08. Direct costs: $855,443.

The Carolina Center for Exploratory Genetic Analysis (P20 RR020751). National Institute of Health, National Human Genome Research Institute. Principal Investigator Reed, Co-Investigator North. 9/22/04-07/31/07. Direct costs: $772,328.

HyperGEN – Forsyth Co. Field Center (Genetic Determinants of High Blood Pressure)(5U01- HL054509). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator North. 09/05/95-06/30/07. Direct costs: $1,532,803.

Role of Cytochrome P450- Derived Eicosanoids in Endothelial Dysfunction and Cardiovascular Disease (ES025034). The National Institute of Environmental Health Sciences. Principal Investigator Zeldin PI, Co-Investigator North. 07/01/03-06/30/05. Direct costs: $70,000.

FHS: Molecular Genetics and Genetic Epidemiology-NC (RO1 HL56567). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator Heiss, Co-Investigator North. 09/04/01-08/31/04. Direct costs: $51,120.

FHS: Molecular Genetics & Genetic Epidemiology-NC (5U01-HL56563). National Institutes of Health, National Heart, Lung, and Blood Institute. Principal Investigator Heiss, Co-Investigator North. 08/15/96-07/31/03. Direct costs: $1,655,204.

Publications and References

2026

598. Landman JM, Highland HM, Perry AS, Howard AG, Sheng Q, Lorenz A, et al. Paediatric proteomic signatures of cardiometabolic disease-associated traits predict adult disease outcomes. Nature metabolism. 2026;8(9):2007–22.

597. Wang N, DiCorpo DA, Zhang Y, Kleinbrink E, Arnett DK, Barnard J, et al. Colocalization of eQTLs With Type 2 Diabetes and Glycemic Traits Using Whole-Genome Sequences in Diverse Populations From the NHLBI Trans-Omics in Precision Medicine (TOPMed) Program. Diabetes. 2026;75(8):1477–91.

596. Saw W-Y, Kim K, Huang Y, Yun JH, Ma X, Bacon J, et al. Mosaic loss of Y chromosome associates with lung function, emphysema, and epigenetic aging. American journal of respiratory and critical care medicine. 2026;212(7):1483–94.

595. El-Sabawi B, Huang X, Lin P, Anwar MY, Betti M, Kim N, et al. Proteogenomic Analysis of Coronary Artery Calcification in Human Populations. Arteriosclerosis, thrombosis, and vascular biology. 2026;46(6):e324171.

594. Barnao KM, Hubbard AK, Chan ICC, Zhou W, Jakubek YA, Genovese G, et al. Co-occurring clonal hematopoiesis exhibits strong selection and high leukemia risk. Nature communications. 2026;17(1).

593. Lee S, Miller CL, Bentley AR, Brown MR, Nagarajan P, Noordam R, et al. Large-scale blood pressure GWAS accounting for gene-depression interactions in 564,680 individuals from diverse populations. HGG advances. 2026;7(2):100566.

592. Li J, Hu J, Yun H, Mei Z, Wang X, Luo K, et al. Circulating metabolites, genetics and lifestyle factors in relation to future risk of type 2 diabetes. Nat Med. 2026;32(2):660–70.

591. Anwar MY, Highland HM, Sheng Q, Chen HH, Roshani R, Frankel EG, et al. Multiomics of Human Obesity and Related Multisystem Diseases. J Clin Endocrinol Metab. 2026;111(2):506–23.

2025

590. Saw WY, Kim K, Huang Y, Yun JH, Ma X, Bacon J, et al. Mosaic Loss of Y chromosome associates with lung function, emphysema and epigenetic aging. medRxiv [Preprint]. 2025.

589. Nagarajan P, Kurniansyah N, Lee J, Gharib SA, Xu Y, Zhang Y, et al. Genome-wide Gene by Sleepiness Interaction Analysis for Sleep Apnea. Sleep. 2025.

588. Moore A, Kane E, Teras LR, Machiela MJ, Arias J, Panagiotou OA, et al. Genetically determined body mass index is associated with diffuse large B-cell lymphoma in polygenic and Mendelian randomization analyses. Int J Cancer. 2025.

587. Anwar MY, Highland HM, Palmer AB, Duong T, Lin Z, Zhu W, et al. The Circulating Lipidome In Severe Obesity. medRxiv [Preprint]. 2025.

586. Bentley AR, Brown MR, Musani SK, Schwander KL, Winkler TW, Sims M, et al. Multi-ancestry genome-wide association analyses incorporating SNP-by-psychosocial interactions identify novel loci for serum lipids. Transl Psychiatry. 2025;15(1):207.

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584. Chen HH, Highland HM, Frankel EG, Scartozzi AC, Zhang X, Roshani R, et al. Multiomics reveal key inflammatory drivers of severe obesity: IL4R, LILRA5, and OSM. Cell Genom. 2025;5(3):100784.

583. Downie CG, Highland HM, Alotaibi M, Welch BM, Howard AG, Cheng S, et al. Genome-wide association study reveals shared and distinct genetic architecture of fatty acids and oxylipins in the Hispanic Community Health Study/Study of Latinos. HGG Adv. 2025;6(1):100390.

582. Downie CG, Shrestha P, Okello S, Yaser M, Lee HH, Wang Y, et al. Trans-ancestry genome-wide association study of childhood body mass index identifies novel loci and age-specific effects. HGG Adv. 2025;6(2):100411.

581. El-Sabawi B, Betti M, Lin P, Huang X, Kim N, Yaser Anwar M, et al. Molecular architecture of human atherosclerosis revealed through integrative human genetics. medRxiv [Preprint]. 2025.

580. Ferrier K, Graff M, Konigsberg IR, Stanislawski M, Highland HM, Raffield LM, et al. Epigenome-wide association study meta-analysis of BMI in African American Adults. medRxiv [Preprint]. 2025.

579. Guo B, Cai Y, Kim D, Smit RAJ, Wang Z, Iyer KR, et al. Polygenic risk score for type 2 diabetes shows context-dependent effects across populations. Nat Commun. 2025;16(1):8632.

578. Hu Y, Haessler J, Lundin JI, Darst BF, Whitsel EA, Grove M, et al. Methylome-wide association analyses of lipids and modifying effects of behavioral factors in diverse race and ethnicity participants. Clin Epigenetics. 2025;17(1):54.

577. Huerta-Chagoya A, Kim J, Mandla R, Lu Y, Suzuki K, Petty LE, et al. Multi-ancestry polygenic risk scores for the prediction of type 2 diabetes and complications in diverse ancestries. medRxiv [Preprint]. 2025.

576. Hullings AG, Howard AG, Meyer KA, Avery CL, North KE, Mhatre S, et al. Body Mass Index Modifies Associations Between Diet Quality and Circulating Metabolites: The CARDIA Study, 2005 to 2006. J Am Heart Assoc. 2025;14(19):e037874.

575. Jakubek YA, Ma X, Stilp AM, Yu F, Bacon J, Wong JW, et al. Genomic and phenotypic correlates of mosaic loss of chromosome Y in blood. Am J Hum Genet. 2025;112(2):276–90.

574. Kim D, Highland HM, Smit RAJ, Hysong MR, Buchanan VL, Young KL, et al. Genetic underpinnings of the heterogeneous impact of obesity on lipid levels and cardiovascular disease. Genome Med. 2025;17(1):113.

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569. Nagarajan P, Winkler TW, Bentley AR, Miller CL, Kraja AT, Schwander K, et al. A Large-Scale Genome-Wide Study of Gene-Sleep Duration Interactions for Blood Pressure in 811,405 Individuals from Diverse Populations. Mol Psychiatry. 2025;30(8):3660–72.

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