

**Curriculum Vitae
Joanne B. Cole, Ph.D.**

1. Personal History

Personal Statement:

I am a human geneticist with over a decade of experience leading studies on the genetics of complex traits, focusing on dietary intake and metabolism. My lab operates under the scientific premise that human genetic variation significantly influences nearly all human traits, including food preferences and dietary intake. By leveraging large-scale biobanks and diverse cohorts with both nutrition and genetic data, we aim to address critical gaps in nutritional epidemiology and metabolic disease research and translate key findings into mechanistic and human studies through collaborative efforts.

My interdisciplinary research, which has been continuously funded since 2019, is driven by the goal of advancing Precision Nutrition in healthcare, making personalized dietary recommendations a viable tool in disease prevention and management. Recently, with NIGMS R35 funding, our work has expanded to use genetics as a tool to enhance the accuracy and depth of associations between environmental risk factors and disease. I am equally committed to teaching and mentorship at all academic levels, fostering an inclusive, dynamic research environment to inspire the next generation of scientists.

Primary Appointment:

Current Position: Assistant Professor
 Department of Biomedical Informatics
 University of Colorado School of Medicine
 Address: University of Colorado Anschutz Medical Campus
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 P12-7083
 Aurora, CO 80045
 Office Phone: 303-724-2636
 Email: joanne.cole@cuanschutz.edu
 Website: jcolelab.com

Secondary Appointments:

Division of Renal Diseases and Hypertension, Department of Medicine
 Colorado Center for Personalized Medicine

Graduate School Appointments:

Human Medical Genetics and Genomics PhD Program
 Biomedical Sciences PhD Program
 Biomedical Sciences and Biotechnology MS Program
 Interdisciplinary Quantitative Biology Graduate Certificate Program

2. Education

2006-2007 **Towson University, Towson, MD**
 2007-2010 **University of Maryland, College Park, MD**
 B.S. Cell Biology and Molecular Genetics

2011-2016 **University of Colorado, Anschutz Medical Campus, Aurora, CO**
 Ph.D. Human Medical Genetics and Genomics
“Heritability and Genetic Determinants of Normal Human Facial Shape and Body Size”
 Applied quantitative genetics to estimate heritability and identify genetic determinants of normal human facial shape and body size from diverse phenotypes derived from 3D facial scans and anthropometric measurements in over 6,000 African Bantu children from Tanzania.

2016-2019 **The Broad Institute of MIT and Harvard, Massachusetts General Hospital, Boston Children’s Hospital, Cambridge/Boston, MA**
 Postdoctoral Fellow, Medical and Population Genetics, Metabolism
 Served as a lead analyst for the ‘*Genetics of Nephropathy – an International Effort*’ (GENIE) Consortium, focused on identifying the genetic determinants of diabetic kidney disease through large-scale genome-wide association study meta-analyses, omics integration, and mechanistic studies. Conducted comprehensive genomic and causal inference analysis on dietary intake and its role in diabetes, laying the foundation for my current independent research program.

Additional Relevant Coursework:

2002-2006 **Biotechnology Tech Magnet Program**, River Hill High School, Columbia, MD

2012 **NIGMS Short Course on Statistical Genetics & Genomics**, University of Alabama Birmingham School of Public Health, Birmingham, AL

2012 **Biostatistical Methods I**, University of Colorado School of Public Health, Aurora, CO

2013 **Biostatistical Methods II**, University of Colorado School of Public Health, Aurora, CO

2013 **Statistical Methods in Genetic Association**, University of Colorado School of Public Health, Aurora, CO

2015 **Topics in Probability & Statistics: Methods in Statistical Genetics**, University of Colorado Denver, Denver, CO

2015 **Advanced Gene Mapping**, Rockefeller University, New York City, NY

2019 **Nutritional Epidemiology I**, Harvard T.H. Chan School of Public Health, Boston, MA

2021 **Nutritional Epidemiology II**, Harvard T.H. Chan School of Public Health, Boston, MA

2022 **Mendelian Randomization**, University of Cambridge, Virtual

3. Academic Appointments

2016	Adjunct Faculty , Regis University, Denver, CO
2019-2022	Instructor in Investigation , Department of Medicine, Massachusetts General Hospital and Harvard Medical School, Boston, MA
2022-present	Assistant Professor , Department of Biomedical Informatics, University of Colorado School of Medicine, Aurora, CO
2023-present	Training Faculty Member , Human Medical Genetics and Genomics Program, University of Colorado Anschutz Medical Campus
2023-present	Training Faculty Member , Biomedical Sciences Program, University of Colorado Anschutz Medical Campus
2023-present	Training Faculty Member , Biomedical Sciences and Biotechnology Program, University of Colorado Anschutz Medical Campus
2023-present	Member , Colorado Center for Personalized Medicine, University of Colorado Anschutz Medical Campus
2023-present	Secondary Appointment , Division of Renal Diseases and Hypertension, Department of Medicine, University of Colorado Anschutz Medical Campus
2023-present	Training Faculty Member , NIH R25 PATHways in Genomic Data Science Training Faculty, University of Colorado Denver
2023-present	Training Faculty Member , NIH R25 PATHways in Genomic Research Experiences for Undergraduates, Metropolitan State University
2024-present	Training Faculty Member , NIH T32 in Nutrition Training, University of Colorado Anschutz Medical Campus
2024-present	Training Faculty Member , Interdisciplinary Quantitative Biology Certificate, University of Colorado Boulder

4. Hospital, Government or Other Professional Positions

2005	Intern , Brain Tumor Center, Johns Hopkins Hospital, Baltimore, MD
2010-2011	R&D Associate I , KPL, Kirkegaard & Perry Labs., Inc. (now SeraCare), Gaithersburg, MD

5. Honors, Special Recognitions, and Awards

2008-2010	Academic Honors, University of Maryland
2009-2010	Outstanding Student Award in the College of Chemical Life Sciences, University of Maryland
2010	Primannum Honor Society

2010	Mortar Board National Senior Honor Society
2010-2016	Golden Key International Honor Society
2012	Excellence in Science Program, AAAS
2012	Travel Award, NIGMS Short Course on Statistical Genetics & Genomics
2014	1 st place Trainee Oral Presentation Award, Human Medical Genetics and Genomics Retreat
2014	2 nd place Trainee Poster Presentation Award, Human Medical Genetics and Genomics Retreat
2015	Student Research Award, Society for Pediatric Research (<i>top-scoring student abstract at the Pediatric Academic Societies Annual Meeting; 1 of 2 SPR Student Awards</i>)
2015	Travel Award, C. Werner and Kitty Hirs Research, University of Colorado
2015	Travel Award, Gordon Research Seminar Abstract
2015	1 st place Poster Presentation Award, Methods in Statistical Genetics
2018	Reviewer's Choice Abstract, American Society of Human Genetics
2019	Peer Recognition Star Award, Boston Children's Hospital
2020	Outstanding Manuscript Award, Nutrition Obesity Research Center at Harvard
2023	Travel Award, CHARGE Consortium

6. Membership in Professional Organizations

2013-present	American Society of Human Genetics
2018, 2022-present	American Society for Nutrition
2018-2021	American Diabetes Association
2024	American Society of Nephrology

7. Major Committee and Service Responsibilities

Departmental & Graduate Program:

2013-2015	Member , Admissions Committee, Human Medical Genetics and Genomics Program, University of Colorado Anschutz Medical Campus
2013-2015	Member , Curriculum Committee, Human Medical Genetics and Genomics Program, University of Colorado Anschutz Medical Campus
2020-2021	Chair , Communications Committee, Endocrinology Division, Boston Children's Hospital
2023-2024	Member , Student Input and Feedback Forum, Human Medical Genetics and Genomics Program, University of Colorado Anschutz Medical Campus
2023-present	Chair , Junior Faculty Peer Mentoring Lunch Group, Department of Biomedical Informatics, University of Colorado Anschutz Medical Campus
2024-present	Member , Admissions Committee, Human Medical Genetics and Genomics Program, University of Colorado Anschutz Medical Campus

Institutional:

2014-2015	Vice President , Graduate Student Council, University of Colorado Anschutz Medical Campus
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2017-2019 **Vice Chair**, NextGen Trainee Association, Broad Institute of MIT and Harvard
 2018-2019 **Co-Founder and Executive Member**, Sustainability Affinity Group, Broad Institute of MIT and Harvard

National: NA

Expert Panels and Workshops: NA

Community Service and Public Health Activities: NA

Session Chair at Major Scientific Conferences and Workshops:

2015 **Session Moderator**, Gordon Research Seminar: Human Genetics and Genomics Meeting, Newport, RI
 2024 **Symposium Co-Chair**, Association for Chemoreception Sciences Annual Meeting, Bonita Springs, FL
 2024 **Session Co-Chair**, The Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium Spring Meeting, Denver, CO

8. Licensure and Board Certification

NA

9. Inventions, intellectual Property, and Patents Held or Pending

NA

10. Review and Referee Work

Journal Editorial Service:

2021-2022 **Guest Associate Editor**, Special Topic in Nutrigenomics, Frontiers in Genetics & Frontiers in Nutrition
 2023-2024 **Guest Associate Editor**, Special Topic in Causal Inference and Mendelian Randomization, Frontiers in Nutrition

Ad Hoc Journal Reviewer:

<i>Nature</i>	<i>Journal of the American Society of Nephrology</i>
<i>New England Journal of Medicine</i>	<i>Wellcome Open Research</i>
<i>Nature Genetics</i>	<i>Gastrointestinal Disorders</i>
<i>Diabetes Care</i>	<i>Twin Research and Human Genetics</i>
<i>Diabetes in America</i>	<i>Food & Function</i>
<i>PLOS Genetics</i>	<i>BMJ Open Diabetes Research & Care</i>
<i>Scientific Reports</i>	<i>Archives of Public Health</i>

Grant Review and Study Section Membership:

Ad Hoc Grant Review:

2022	University of Colorado Diabetes Research Center Pilot and Feasibility Award
2024	UK Research and Innovation Funding Service

11. Invited Extramural Lectures, Presentations and Visiting Professorships

Local

2014	Invited Speaker , Human Medical Genetics and Genomics Program Retreat, University of Colorado Anschutz Medical Campus, Colorado Springs, CO
2017	Invited Speaker , Diabetes Research Group Seminar, Broad Institute of MIT and Harvard, Cambridge, MA
2018	Invited Seminar , Division of Endocrinology, Boston Children's Hospital, Boston, MA
2018	Invited Speaker , Fusion-Oxford-Broad T2D Summit, Broad Institute of MIT and Harvard, Cambridge, MA
2019	Invited Speaker , 5 th Annual Kidney-NExT5 Symposium, Broad Institute of MIT and Harvard, Cambridge, MA
2019	Invited Speaker , Medical and Population Genetics Seminar - February, Broad Institute of MIT and Harvard, Cambridge, MA
2019	Invited Speaker , Medical and Population Genetics Seminar - May, Broad Institute of MIT and Harvard, Cambridge, MA
2019	Invited Speaker , Diabetes Research Group Seminar, Broad Institute of MIT and Harvard, Cambridge, MA
2019	Oral Presentation , Broad Institute of MIT and Harvard Trainee Retreat, Cambridge, MA
2022	Invited Speaker , Human Medical Genetics and Genomics Program Retreat, University of Colorado Anschutz Medical Campus, Colorado Springs, CO
2023	Invited Seminar , Section of Nutrition & Nutrition Obesity Research Center Seminar, University of Colorado Anschutz Medical Campus, Aurora, CO
2023	Invited Seminar , Human Medical Genetics and Genomics Program Seminar, University of Colorado Anschutz Medical Campus, Aurora, CO
2023	Invited Seminar , Division of Endocrinology, Metabolism and Diabetes Research Seminar, University of Colorado Anschutz Medical Campus, Aurora, CO
2023	Invited Seminar , Division of Renal Diseases and Hypertension Research Seminar, University of Colorado Anschutz Medical Campus, Aurora, CO
2024	Invited Seminar , UC Health/Children's Hospital of Colorado Dietetics Research Internship Seminar, University of Colorado Anschutz Medical Campus, Aurora, CO

Regional

2019	Invited Seminar , Marcus Institute for Aging Research, Harvard Medical School, Boston, MA
2019	Invited Seminar , Mongan Institute and Clinical Translational Epidemiology Unit, Massachusetts General Hospital, Boston, MA

- 2020 **Invited Seminar**, Division of Preventive Medicine, Brigham and Women's Hospital
- 2022 **Invited Seminar**, AllRise Career Seminar Series, Division of Endocrinology, Boston Children's Hospital, Boston, MA
- 2024 **Invited Seminar**, Summer Research Series, Aurora History Museum, Aurora, CO
- 2024 **Invited Seminar**, Department of Food Science and Human Nutrition Research Seminar, Colorado State University, Fort Collins, CO

National

- 2015 **Oral Presentation**, Pediatric Academic Societies Meeting, San Diego, CA
- 2015 **Oral Presentation**, Gordan Research Conference: Human Genetics & Genomics, Newport, RI
- 2016 **Invited Seminar**, Framingham Heart Study Omics Conferences Series, Virtual
- 2018 **Invited Seminar**, Human Medical Genetics and Genomics Seminar Series, University of Colorado Anschutz Medical Campus, Aurora, CO
- 2019 **Oral Presentation**, American Diabetes Association Meeting, San Francisco, CA
- 2020 **Invited Seminar**, Department of Mathematical and Statistical Sciences, University of Colorado Denver, Denver, CO
- 2020 **Invited Seminar**, Institute for Behavioral Genetics, University of Colorado Boulder, Boulder, CO
- 2021 **Invited Seminar**, Department of Nutrition and Food Science, University of Maryland
- 2021 **Invited Seminar**, Center for Genetic Epidemiology, University of Southern California, Keck School of Medicine
- 2021 **Invited Seminar**, Bioinformatics & Integrative Biology Program, University of Massachusetts Chan Medical School
- 2022 **Invited Seminar**, Center for Quantitative Genetics, School of Biological Sciences, Georgia Institute of Technology
- 2022 **Invited Seminar**, Center for Genomic Health, Department of Genetics, Yale School of Medicine
- 2022 **Invited Seminar**, Department of Human Genetics, Emory School of Medicine
- 2022 **Invited Seminar**, Children's Nutrition Research Center, Baylor College of Medicine
- 2022 **Invited Seminar**, Department of Human Genetics, University of Chicago
- 2022 **Invited Seminar**, Center for Health Artificial Intelligence, University of Colorado School of Medicine
- 2022 **Invited Moderator**, University of Utah Metabolism Journal Club, Virtual
- 2023 **Oral Presentation**, CHARGE Consortium Spring Meeting, Boston, MA
- 2023 **Oral Poster Presentation**, American Society for Nutrition Meeting, Boston, MA
- 2023 **Invited Seminar**, Division of Human Genetics, Children's Hospital of Philadelphia, PA
- 2024 **Oral Presentation**, American Society of Nephrology Meeting, San Diego, CA

International

2023 **Invited Symposium Speaker**, European Association for the Study of Diabetes, Hamburg, Germany

12. Teaching Record

Program Director: NA

Course Director:

2024 **Course Director**, Foundations in Genetics (BSBT6075), Biomedical Sciences and Biotechnology Master's Program, University of Colorado Anschutz Medical Campus

Instructor of Record:

2009-2010 **Instructor of Record Teaching Assistant**, Principles of Molecular and Cellular Biology Laboratory (BSCI171), University of Maryland
 2014 **Instructor of Record Co-Teaching Assistant**, General Genetics Recitation (BIOL3832), University of Colorado Denver
 2016 **Adjunct Faculty**, Molecular and Cellular Biology Laboratory (BL261), Regis University

Lectures in Courses/Teaching Seminars:

2014 **Guest Lecturer**, General Genetics (BIOL3832): Mutations, DNA Repair, and Genetic Diseases. University of Colorado Denver
 2023 **Guest Lecturer**, Foundations in Genetics (BSBT 6075): Forward Genetics: GWAS. University of Colorado Anschutz Medical Campus
 2023, 2024 **Guest Lecturer**, Clinical Cytogenetics and Molecular Genetics (GENC 6120): Genomics of Common Disease. University of Colorado Anschutz Medical Campus
 2024 **Group Discussion Facilitator**, Responsible Conduct of Research (BMSC7811): Ethical Issues in Human Subjects Research. University of Colorado Anschutz Medical Campus

Lectures to Lay Audiences:

2024 **Invited Seminar**, Aurora History Museum Summer Speaker Series: Taste of Genetics. Aurora History Museum, Aurora, CO

High School/Undergraduate Mentor:

2024-Present Na'Kia Napue
 Undergraduate Student, University of Colorado Boulder

MS Student Mentor:

2024 Joshua Cropanzano, BA
 Graduate Student, Biomedical Sciences and Biotechnology Master's
 Program, University of Colorado Anschutz Medical Campus

PhD Student Mentor:

Postdoctoral/Medical Fellow Mentor:

2018-2022	Kenneth Westerman, PhD Postdoctoral Fellow, Massachusetts General Hospital and The Broad Institute of MIT and Harvard - NIDDK K01 Fellow (2022-2027) - Semifinalist for the Charles J. Epstein Trainee Award at the American Society of Human Genetics (2022) - <u>Current Position:</u> Instructor, Massachusetts General Hospital	Primary Mentor: Manning Role: Project and Career Mentor
2022-present	Raymond Kreienkamp, MD/PhD Pediatric Endocrine Fellow, Boston Children's Hospital - Pediatric Endocrine Society Rising Star Award (2022)	Primary Mentors: Florez, Udler Role: Project Mentor
2023-present	Kristen (James) Sutton, PhD Postdoctoral Fellow, Department of Biomedical Informatics, University of Colorado School of Medicine - NIH/NLM T15 Fellow in Bioinformatics (2023) - Lead Fellow, NIH/NLM T32 Fellow in Nutrition (2024-2025)	Role: Primary Mentor
2024-present	William Patterson, PhD MS Postdoctoral Fellow, Department of Biomedical Informatics, University of Colorado School of Medicine	Role: Primary Mentor
2024-present	Courtney Giannini, MD/PhD Pediatric Nephrology Fellow, Children's Hospital of Colorado - CCTSI T32 Fellow (2024-2026)	Role: Primary Research Mentor
2024-present	Julie Gervis, PhD Postdoctoral Fellow, Massachusetts General Hospital and The Broad Institute of MIT and Harvard	Primary Mentor: Udler Role: Project Mentor

Other Mentor:

2018-2019	Ryan Spangler, BS Research Assistant, The Broad Institute of MIT and Harvard	Role: Mentor (graduate school applications and transition), The Broad
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	- Current Position: Director of Operations, ImmuneAGE Bio	Institute of MIT and Harvard Mentoring Program
2023-present	Maizy Brasher, MS Intermediate Information Sciences Research Professional, Department of Biomedical Informatics, University of Colorado School of Medicine	Role: Primary Mentor

Mentoring Committees:

2023-present	Milton Pividori, PhD Assistant Professor, Department of Biomedical Informatics, University of Colorado School of Medicine	Role: Member, Department of Biomedical Informatics Faculty Mentoring Committee
2024-present	Harriet Dashnow, PhD Assistant Professor, Department of Biomedical Informatics, University of Colorado School of Medicine	Role: Member, Department of Biomedical Informatics Faculty Mentoring Committee

Research Committees: NA**Rotation Students:**

2023	Susana Lopez-Ignacio, BS, Graduate Student, Human Medical Genetics and Genomics PhD Program, University of Colorado Anschutz Medical Campus
2023	Shane Ridoux, BS, Graduate Student, PATHways in Genomic Data Science for Statistics & Applied Mathematics MS Programs, University of Colorado Denver
2024	Samantha Lopez Alvarez, BS, Graduate Student, Human Medical Genetics and Genomics PhD Program, University of Colorado Anschutz Medical Campus
2024	Keshav Vembar, BS, Graduate Student, PATHways in Genomic Data Science for Statistics & Applied Mathematics MS Programs, University of Colorado Denver
2024	Emily Boyer, Undergraduate Student, PATHways in Genomic Research Experiences for Undergraduates, Metropolitan State University
2024	Davyd Sadovskyy, BS, Graduate Student, PATHways in Genomic Data Science for Statistics & Applied Mathematics MS Programs, University of Colorado Denver

Other Teaching, Mentoring, and Diversity, Equity, and Inclusion Activities:

2014-2016	High School STEM Club Leader, Green Mountain High School, Lakewood, CO, National Science Foundation STEM Club Program (PI: Michael Ferrara)
2015	NIH Learning How to Teach 8-Week Workshop, University of Colorado Anschutz Medical Campus
2021	Bystander to Upstander Workshop, Boston Children's Hospital

2022	Multicultural Mentoring Three-part Seminar Series, University of Colorado Anschutz Medical Campus
2023	Mentorship Academy 1-Day Workshop, Department of Medicine, University of Colorado Anschutz Medical Campus
2024	Scientist Liaison, Ludeman Center for Women's Health Research Girls Career Day
2024-2025	CO-Mentor Mentoring 5-part Workshop, University of Colorado Anschutz Medical Campus

13. Grant Support

<u>Title</u>	<u>Period</u>	<u>Total Direct Funding</u>
<p>Active: NIH-NIGMS: 1R35GM154792-01 <i>Genetics as a tool to improve phenotypes and associations with human disease</i> Principal Investigator(s): Cole</p>	09/10/2024-06/30/2029	\$1,250,000
<p>CU Translational Research Scholars Program <i>Harnessing sensory genes involved in diet to improve personalized nutrition</i> Principal Investigator(s): Cole</p>	07/01/2024-06/30/2028	\$300,000
<p>NIH-NIDDK: 4R00DK127196 <i>Genetically harmonized dietary intake and causal relationships with diabetes-related outcomes</i> Principal Investigator(s): Cole</p>	01/10/2023-11/30/2025	\$480,384
<p>CU Ludeman Family Center for Women's Health Early Career Faculty Research Development Award <i>Sex-specific genetic effects on lifestyle behavior and its causal role in obesity and diabetes risk</i> Principal Investigator(s): Cole</p>	09/01/2023-12/31/2024	\$25,000
<p>NIH-NIDDK: U01DK140738 <i>Subtyping COre for Research on the Etiology of Type 2 Diabetes (SCORE-T2D)</i> Principal Investigator(s): Kechris, Lange, Perng, Yang Role: Co-Investigator (5%)</p>	07/01/2024-06/30/2029	\$7,691,625
<p>Skaggs Scholar Program <i>Genetics of Drug-Induced Kidney Disease</i> Principal Investigator: Melanie Joy Role: Co-investigator (5%)</p>	09/01/2023-08/31/2025	\$150,000
<p>NIH-NIDDK: 1R01DK132299 <i>A functional genomics pipeline for genetic discovery in diabetic kidney disease</i> Principal Investigator: Jose Florez</p>	08/01/2022-05/31/2027	\$84,935 (Sub-contract)

Role: Co-investigator (10%)

Completed:

NIH-NIDDK: 1K99DK127196 <i>Genetically harmonized dietary intake and causal relationships with diabetes-related outcomes</i> Principal Investigator(s): Cole	04/01/21- 09/30/22	\$177,540
American Diabetes Association Postdoctoral Fellowship: 1-19-PDF-028 <i>Data-driven dietary habits: genetics, causality for diabetes and related traits, and transferability across studies</i> Principal Investigator(s): Cole	01/01/19-3/31/21	\$161,650
NIH-NIDDK: 1T32DK110919 <i>Harvard Training Program in Bioinformatics Applied to Diabetes, Obesity and Metabolism</i> Principal Investigator(s): Florez, Patel Role: Trainee	09/01/17- 12/31/18	Salary support
NIH-NIDDK: 5T32DK007028 <i>Massachusetts General Hospital Endocrinology Training Grant</i> Principal Investigator(s): Avruch Role: Trainee	10/01/16- 08/31/17	Salary support

14. Bibliography

Non-Competitive Abstracts (limited to first or senior author only):

1. **Cole JB**, Florez JC, Hirschhorn JN. Genetic architecture of data-driven dietary habits in UK Biobank highlights the importance of diverse phenotyping approaches. The Broad Institute of MIT and Harvard Annual Retreat, December 2018, Boston, MA. Poster Presentation.
2. **Cole JB**, Florez JC, Hirschhorn JN. Comprehensive genomic analysis of dietary intake identifies hundreds of genetic associations and supports causal relationships with lifestyle and human health. Massachusetts General Hospital Clinical Research Day, October 2020, Virtual. Poster Presentation.
3. Westerman KE, Udler MS, Florez JC, Manning AK, **Cole JB**. Systematic discovery of thousands of gene-environment interactions for cardiometabolic serum biomarkers. The Broad Institute of MIT and Harvard Annual Retreat, December 2020, Virtual. Poster Presentation.
4. **Cole JB**, Florez JC, Hirschhorn JN. Comprehensive genomic analysis of dietary intake elucidates relationships with metabolic disease. 9th Annual Obesity Research Incubator Session, May 2021, Virtual. Poster Presentation.
5. James K & **Cole JB**. Precise genetic instruments in Mendelian randomization improve causal estimates of complex traits. University of Colorado Department of Biomedical Informatics Annual Retreat, August 2023, Poster Presentation.

Competitive Abstracts (limited to first or senior author only):

1. **Cole JB**, Manyama M, Larson J, Liberton DK, Ferrara TM, Riccardi SL, Li M, Mio W, Santorico SA, Hallgrimsson B, Spritz RA. Genetic Determinants of Normal Facial Variation. American Society of Human Genetics Annual Meeting, October 2014, San Diego, CA. Poster Presentation.
2. **Cole JB***, Manyama M, Larson J, Liberton DK, Ferrara TM, Riccardi SL, Li M, Mio W, Santorico SA, Hallgrimsson B, Spritz RA. Genetic Determinants of Normal Facial Variation. Pediatric Academic Societies Annual Meeting, April 2015, San Diego, CA. Oral Presentation. *The top-scoring abstract for one of two Society of Pediatric Research Student Awards*
3. **Cole JB**, Manyama M, Larson J, Liberton DK, Ferrara TM, Riccardi SL, Li M, Mio W, Santorico SA, Hallgrimsson B, Spritz RA. Genetic Determinants and Heritability of Normal Facial Variation. Gordon Research Conference: Human Genetics & Genomics, July 2015, Newport, RI. Oral and Poster Presentation.
4. **Cole JB**, Manyama M, Mio W, Santorico SA, Hallgrimsson B, Spritz RA. Heritability of Normal Human Facial Shape. American Society of Human Genetics Annual Meeting, October 2015, Baltimore, MD. Poster Presentation.
5. **Cole JB**, Florez JC, Hirschhorn JN. Data-driven approach to dietary phenotypes for nutrigenomics in UK Biobank. American Society of Human Genetics Annual Meeting, October 2017, Orlando, FL. Poster Presentation.
6. **Cole JB**, Florez JC, Hirschhorn JN. Uncovering the genetic architecture of data-driven dietary habits in UK Biobank. American Society of Human Genetics Annual Meeting, October 2018, San Diego, CA. Poster Presentation. *Reviewer's Choice Award given to the top 10% of abstracts*
7. **Cole JB**, Florez JC, Hirschhorn JN. Genetic architecture of data-driven dietary habits in UK Biobank. Conference of the Program in Quantitative Genomics, November 2018, Boston, MA. Poster Presentation.
8. **Cole JB**, Leong A, Florez JC, Hirschhorn JN. Genome-wide association study of food frequency questionnaire single nutrients and dietary patterns uncover hundreds of genetic associations. American Diabetes Association Annual Meeting, June 2019, San Francisco, CA. Oral Presentation.
9. **Cole JB**, Florez JC, Hirschhorn JN. Comprehensive genomic analysis of data-driven dietary patterns in UK Biobank identifies novel loci and reveals causal associations. American Society of Human Genetics Annual Meeting, October 2019, Houston, TX. Poster Presentation.
10. **Cole JB**, Florez JC, Hirschhorn JN. Comprehensive genomic analysis of data-driven dietary habits in UK Biobank identifies hundreds of novel loci and reveals causal associations. Keystone Symposium Conference: Beyond a Million Genomes: From Discovery to Precision Health, January 2020, Breckenridge, CO. Poster Presentation.
11. **Cole JB**, Florez JC, Hirschhorn JN. Genomic Analysis of Dietary Intake identifies hundreds of novel associations and reveals causal relationships. UK Biobank Annual Scientific Conference, June 2020, Virtual. Oral Poster Presentation. *Oral Presentation shared by UK Biobank on Twitter*
12. Westerman KE, Chen Y, Chen H, Florez JC, **Cole JB***, Manning AK*. Large-scale, genome-wide gene-diet interaction testing for HA1c using derived dietary patterns in the UK Biobank. American Society for Nutrition Annual Meeting, June 2020, Virtual. Poster presentation.
13. **Cole JB**, Florez JC, Hirschhorn JN. Understanding how the genetics of dietary patterns in Europeans translates across ancestries. American Society of Human Genetics Annual Meeting, October 2020, Virtual. Poster Presentation.

14. Westerman KE, Udler MS, Florez JC, Manning AK, **Cole JB**. Systematic discovery of thousands of gene-environment interactions for cardiometabolic serum biomarkers. CHARGE Consortium Meeting, May 2021, Virtual. Oral Presentation.
15. Westerman KE, Udler MS, Florez JC, Manning AK, **Cole JB**. Systematic discovery of thousands of gene-environment interactions for cardiometabolic serum biomarkers. American Heart Association Epi|Lifestyle Meeting, June 2021, Virtual. Oral Poster Presentation.
16. **Cole JB**, Florez JC, Hirschhorn JN. Novel phenotyping approaches: Empirical Bayes methods improve heritability of dietary phenotypes from repeat diet questionnaire data. American Society of Human Genetics Annual Meeting, October 2021, Virtual. Poster Presentation.
17. Westerman KE, Giulianini F, Florez JC, Chen H, Chasman DI, Udler MS, Manning AK, **Cole JB**. Systematic discovery of gene-environment interactions for metabolic serum biomarkers. American Society of Human Genetics Annual Meeting, October 2021, Virtual. Oral Presentation. *First-author and mentee, Kenny Westerman, was a Semifinalist for the Charles J. Epstein Trainee Award (top 60 trainee-led abstracts out of thousands)*
18. **Cole JB**, Westerman KE, Manning AK. Genetic heritability as a tool to optimize phenotyping decisions: An application in nutritional epidemiology. The Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium Spring Meeting, May 2023, Boston, MA. Oral Presentation. *CHARGE Travel Awards Recipient*
19. **Cole JB**. Identifying genes with direct biological effects on dietary intake to improve personalized medicine. American Society for Nutrition Meeting, July 2023, Boston, MA. Oral Poster Presentation. *One of 14 abstracts to be highlighted in the ASN Research & Media Highlight; Received press coverage in >50 News Media Outlets, including BBC Radio, NewScientist, and NewsWeek*
20. James K & **Cole JB**. Precise genetic instruments in Mendelian randomization improve causal estimates of complex traits. American Society of Human Genetics Annual Meeting, November 2023, Washington D.C. Poster Presentation.
21. Sutton KJ & **Cole JB**. Leveraging the genetics of dietary intake via Mendelian randomization towards the goal of precision nutrition. The Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium Spring Meeting, May 2024, Denver, CO. Oral Poster Presentation.
22. Brasher M & **Cole JB**. X-chromosome-wide association study of dietary intake in the UK Biobank. The Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium Spring Meeting, May 2024, Denver, CO. Poster Presentation.
23. Sutton KJ & **Cole JB**. Developing an objective method to improve the causal estimates of dietary traits on metabolic health outcomes in Mendelian randomization. American Society of Nutrition Annual Meeting, July 2024, Chicago, IL. Poster Presentation.

Peer-Reviewed Publications

<https://www.ncbi.nlm.nih.gov/myncbi/joanne.cole.1/bibliography/public/>

Summary (Updated on 12/16/2024; Source: Google Scholar)

- h-index = 26
- Cited 4,921 times
- 15 publications cited 50+ times, including 5 first-author publications
- 36 research articles, 2 review articles, and 1 editorial
- 11 first author and 3 senior author publications

**equal author contributions*

1. Jin Y, Birlea SA, Fain PR, Ferrara TM, Ben S, Riccardi SL, **Cole JB**, Gowan K, Holland PJ, Bennett DC, Luiten RM, Wolkerstorfer A, van der Veen JP, Hartmann A, Eichner S, Schuler G, van Geel N, Lambert J, Kemp EH, Gawkrödger DJ, Weetman AP, Taïeb A, Jouary T, Ezzedine K, Wallace MR, McCormack WT, Picardo M, Leone G, Overbeck A, Silverberg NB, & Spritz RA. (2012). Genome-wide association analyses identify 13 new susceptibility loci for generalized vitiligo. *Nature Genetics*, 44(6), 676-680. doi:10.1038/ng.2272
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