

Curriculum Vitae
Sarah A. Tishkoff, Ph.D.

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Address: 428 Clinical Research Building
415 Curie Boulevard
Philadelphia, PA 19104-6145 USA
tishkoff@pennmedicine.upenn.edu

Citizenship: U.S. Citizen

Education:

1989	B.S.	University of California, Berkeley (Anthropology & Genetics)
1992	M.Phil.	Yale University (Human Genetics, Kenneth Kidd adviser)
1996	Ph.D.	Yale University (Genetics, Kenneth Kidd adviser)

Postgraduate Training and Fellowship Appointments:

1997-2000	Postdoctoral Fellow, Pennsylvania State University, Department of Biology (Andrew Clark adviser)
1997	Visiting Research Fellow, South African Institute of Medical Research, University of the Witwatersrand, Department of Human Genetics (Trevor Jenkins adviser)

Faculty Appointments:

2000-2005	Assistant Professor, University of Maryland, Department of Biology
2005-2007	Associate Professor, University of Maryland, Department of Biology
2008-2012	David and Lyn Silfen University Associate Professor, Department of Genetics, Perelman School of Medicine and Department of Biology, School of Arts and Sciences, University of Pennsylvania (Penn Integrates Knowledge Associate Professor)
2012-present	David and Lyn Silfen University Professor, Department of Genetics, Perelman School of Medicine and Department of Biology, School of Arts and Sciences, University of Pennsylvania (Penn Integrates Knowledge Professor)

Other Appointments:

2008-present	Member, Genomics and Computational Biology (GCB) Graduate Group, Biomedical Graduate Studies, Perelman School of Medicine, University of Pennsylvania
2008-present	Member, Penn Genome Frontiers Institute (PGFI), University of Pennsylvania
2008-present	Member, Genetics and Gene Regulation (GGR) Graduate Group, Biomedical Graduate Studies, Perelman School of Medicine, University of Pennsylvania
2008-present	Member, Center for Genes and Complex Traits (CGACT), University of Pennsylvania
2010-present	Member, Center of Excellence in Environmental Toxicology (CEET), University of Pennsylvania
2010-present	Member, Institute for Immunology (IFI), University of Pennsylvania
2011-present	Member, Diabetes and Endocrinology Research Center (DERC), University of Pennsylvania

2011-present	Member, Institute for Diabetes, Obesity, and Metabolism (IDOM), University of Pennsylvania
2012-present	Research Associate, Population Aging Research Center (PARC), University of Pennsylvania
2013-present	Member, Skin Disease Research Center (SDRC), University of Pennsylvania
2019-present	Director, Center for Global Genomics and Health Equity, University of Pennsylvania
2022-present	Member, SOM, Institute for RNA Innovation
2022-present	Penn Scholar, Center for Global Health, University of Pennsylvania

Awards, Honors and Membership in Honorary Societies:

1987	U.C. Berkeley President's Undergraduate Fellowship
1989	U.C. Berkeley University High Honors
1989	U.C. Berkeley Anthropology Honors
1989-1994	National Institutes of Health Predoctoral traineeship
1991-1992	Fulbright/DAAD Predoctoral fellowship for research in Germany with Dr. Svante Pääbo
1996-1998	NSF Sloan Postdoctoral fellowship in molecular evolution
1998-2003	Burroughs/Wellcome Fund Career Award in the Biomedical Sciences
2001-2006	David and Lucile Packard Career Award in Science and Engineering
2003	Univ. of MD College of Life Sciences Faculty Excellence Award for Junior Faculty
2003	Featured as one of the "Ten Most Brilliant" young scientists in the U.S. by Popular Science Magazine, September, 2003
2008	Penn Integrates Knowledge (PIK) University Endowed Chair, University of Pennsylvania
2009	NIH Pioneer Award
2009-2011	Penn Fellow, University of Pennsylvania
2011	Invited Lecturer, Holiday Lectures on Science, HHMI
2012	Invited Lecturer, W. E. B. Du Bois Lectures, W.E.B. Du Bois Institute for African and African American Research, Harvard University
2012	Keynote Speaker, The Genomics of Common Disease, Potomac, Maryland
2013	Keynote Speaker, Symposium in honor of the 10th anniversary of the Human Genome Project, NHGRI, NIH
2013	Plenary Speaker, The Endocrinology Society Meeting
2013	Semi-Finalist for HHMI Investigator Competition
2013	Eugene Perrin Lecture on Health Sciences and Peace, Wayne State University
2014	Laureate Lecture, School of Medicine, University of Pittsburgh
2014	Plenary Speaker, Society of Molecular Biology and Evolution, San Juan
2014	Keynote Speaker, 11 th International Conference on Zebrafish development and Genetics
2015	Wolk Lecture, Colgate University, Hamilton, NY
2017	14 th Annual CC Li Lecture, University of Pittsburgh
2017	Evelyn Spritz Lecture in Human Genetics and Genomics, University of Colorado School of Medicine, Boulder, CO
2017	Elected to the National Academy of Sciences
2017-2018	Executive Leadership in Academic Medicine (ELAM) fellow, Drexel University College of Medicine
2019	Pathway to Stop Diabetes Visionary Award, American Diabetes Association
2019	Recipient of Curt Stern Award, American Society of Human Genetics

2021	Elected to the American Academy of Arts & Sciences
2021	Elected to the National Academy of Medicine
2021	Recipient of the Frassetto Prize from Italy
2022	Recipient of the Wilbur Cross medal for alumni achievement, Yale University
2023	Elected as President of the American Society of Human Genetic
2023	Stanley N. Cohen Biomedical Research Award, Perelman School of Medicine, University of Pennsylvania
2024	Invited to give Mendel Lecture, Augustinian Abbey in Brno, Czech Republic

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

2000-present	Leakey Foundation (Ad Hoc Reviewer)
2005-present	African Society of Human Genetics (Member)
2005-2006	Wellcome Trust, UK, Fellowship Reviewer
2006-2009	Biotechnology and Biological Sciences Research Council (BBSRC), UK (Grant Reviewer)
2008-2010	FTC Portugal (national science council), Portugal (Grant Reviewer)
2008	Wellcome Trust, UK, Grant Reviewer
2010	Wellcome Trust, UK, Sanger Institute Programme Reviewer
2013-present	Faculty of 1000 (F1000) (Contributing Member)

National:

2000-present	American Association for Anthropological Genetics
2000-present	American Association for the Advancement of Science (Member)
2000-present	American Association of Physical Anthropologists (Member)
2000-present	American Society of Human Genetics (Member)
2000-present	National Science Foundation, Physical Anthropology (Ad Hoc Reviewer)
2000-present	Society for Molecular Biology and Evolution (Member)
2000-2007	Society for the Study of Evolution (Member)
2003-2005	National Human Genome Research Institute (NHGRI), National Institutes of Health (NIH) Advisory Panel Member, Research Planning and Evaluation Group, Ethical, Legal and Social Issues
2004	GRAD (Genetic Research of the African Diaspora) Project, Howard University
	Genome Sciences Center (Advisory Panel Member)
2004	National Human Genome Research Institute (NHGRI), National Institutes of Health (NIH) Advisory Panel Member "Race and Genetics"
2005	Genetics of Health and Disease Study Section, National Institute of General Medical Sciences, National Institutes of Health (Ad Hoc Member)
2005	"Race and Genetics," National Coalition for Health Professional Education in Genetics (Advisory Panel Member)
2006	Genes, Genomics, and Genetics Study Section, National Institutes of Health (Ad Hoc Member)
2006-2008	Advisory Panel Member, "The New Genetics and the Trans-Atlantic Slave Database", Harvard University, Afro-American Studies Program, organized by Henry Louis Gates, Jr.
2007	National Science Foundation (CAREER Program Review Panel Member)
2007	Race and Ancestry in Clinical Genetics and Population Research Workshops, Broad Institute (Advisory Panel Member)

2007-2012	National Human Genome Research Institute (NHGRI), National Institutes of Health (NIH) Member, Consultation and Oversight Group NHGRI Sample Repository
2008-present	Genetics Society of America (Member)
2008-2010	National Evolutionary Synthesis Center (NESCent) Scientific Advisory Board
2009	Keystone Symposia Genetics/Genomics Study Group (Scientific Advisory Panel)
2009	National Institutes of Health (Challenge Grants Reviewer)
2009-2014	National Human Genome Research Institute (NHGRI), National Institutes of Health (NIH) 1000 Genomes Samples Advisory Committee
2010-2012	Chair, Committee to Study African American ancestry using genomic studies as part of the working group "The New Genetics and the Trans-Atlantic Slave Database", Harvard University, Afro-American Studies Program, organized by Henry Louis Gates, Jr.
2010-present	Association for Women in Science (Member)
2010	International Centers of Excellence for Malaria Research (ICEMR), NIAID, NIH (Grant Review Panel)
2011-2013	Member, Genetics, Variation, and Evolution (GVE) Study Section, NIH
2011	National Institutes of Health (Workshop Participant - "Genomic Opportunities for Studying Sickle Cell Disease")
2012-2013	National Institutes of Health (H3Africa Common Fund Initiatives Review Panel)
2012-2013	Smithsonian National Museum of Natural History/NHGRI (Advisory Council)
2012-2013	Reviewer, Canada Research Chair applications, Canadian Institutes of Health Research
2013-2015	American Society of Human Genetics (Member and Chair, Nominating Committee)
2013-2015	Genetics, Variation, and Evolution (GVE) Study Section, NIH (Chair)
2013-2014	Selection Committee, Gilbert S. Omenn Prize at the Foundation for Evolution, Medicine and Public Health (Member)
2014-2015	Selection Committee, Gilbert S. Omenn Prize at the Foundation for Evolution, Medicine and Public Health (Chair)
2016-2019	Director, American Society of Human Genetics
2016	Co-Chair, Study Section to Review MIRA grants, NIGMS, NIH
2016- 2018	Advisory Board, International Society for Evolution, Medicine, and Public Health
2016 – 2017	Member, Executive Director of the American Society of Human Genetics Search Committee
2016-2019	Review member, Intramural faculty review, NIAAA
2017	Chair, NIH Review panel of early investigator MIRA application, NIGMS
2018	Participant, workshop on interpreting the genetic bases of differences between populations and on the interactions among concepts used for research in social and natural sciences, Harvard University.
2018-2023	Board of Scientific Counselors, NHGRI Intramural program
2018 -2020	Scientific Advisory Panel, NHGRI 5-year Strategic Plan
2018	Member of the Richard Lounsbery Award Committee, NAS, Washington DC
2018-2022	Scientific Advisory Board, David and Lucile Packard Foundation
2018 – 2024	Member, National Academies of Sciences, Engineering, and Medicine Board on Global Health
2019	Member, NIH review panel of senior investigator MIRA applications, NIGMS
2020	Co-Chair, NIH review panel of senior investigator MIRA applications, NIGMS
2019 – 2022	Co-Chair, Professional Practice and Social Implications Committee, ASHG
2019 – 2023	Advisory Council for the Lewis-Sigler Institute for Integrative Genomics, Princeton University, Princeton, NJ.

2021 – 2024	Board of Scientific Counselors, The Jackson Laboratory, Bar Harbor, ME
2021	Member, outside advisory panel for review of the Department of Human Evolutionary Biology, Harvard University
2021	Member, NIH NHGRI Scientific Director Search Committee
2021	Member, working group addressing issues related to Race, Health, Science, and Society, National Academy of Medicine.
2021	Member, planning committee for the National Academy of Sciences, Medicine, and Engineering workshop on “Molecular Insights to Patient Stratification for Rare and Common Neuropsychiatric Disorders”
2022	Member, American Society of Human Genetics Expert Panel on Historical Injustices and Scientific Racism
2022	Member, National Academies Committee on Use of Race, Ethnicity, and Ancestry as Population Descriptors in Genomics Research
2023-2025	Executive Board Member, Human Genome Organisation (HUGO)
2024	President-Elect, American Society of Human Genetics
2025	President, American Society of Human Genetics
2026	Past-President, American Society of Human Genetics

Local:

2009-2010	Franklin Institute Scientific Advisory Panel
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Editorial Positions:

1997-present	Reviewer: Nature; Cell, Human Molecular Genetics; Molecular Biology and Evolution; Human Genetics; European Journal of Human Genetics; Nature Reviews; PLOS Genetics; Annals of Human Genetics; Human Biology; The American Journal of Physical Anthropology; The American Journal of Human Genetics; Science; Nature Genetics; PLOS Biology; Genome Research; Trends in Genetics; Genetics, among others
2005-2016	Associate Editor, Molecular Biology and Evolution Journal
2007-2020	Editorial Board, Genome Research Journal
2010-2013	Associate Editor, The Quarterly Review of Biology
2011-2018	Member, Editorial Board, Evolution, Medicine, and Public Health
2011-2023	Associate Editor, G3 (Genes, Genomes, Genetics)
2016-present	Associate Editor PLOS Genetics
2020-present	Editorial Board, Cell
2020-present	Ad hoc editor at PNAS
2022-present	Advisory Board, Journal of Human Population Genetics and Genomics

Academic and Institutional Committees:

2001-2002	UMD, Behavior, Ecology, Evolution, Systematics Graduate Admissions Committee
2001-2004	UMD, Biology Computational Biology Search Committee
2002-2003	UMD, Biology Faculty Advisory Committee
2002-2006	UMD, Howard Hughes Medical Institute Undergraduate Fellowship Advisory Board
2003-2004	UMD, Biology Chair Search Committee
2003-2006	UMD, Advisory Board for Bioinformatics Course Curriculum Development
2004-2005	UMD, Biology Department Comparative Genomics Faculty Search Committee
2004-2005	UMD, CBMG Department Functional Genomics Faculty Search Committee
2004-2006	UMD, Behavior, Ecology, Evolution, Systematics Graduate Steering Committee
2005-2006	UMD, Computational Biology Faculty Search Committee

2006-2007	UMD, College of Chemistry and Life Sciences Instrumentation and Core Facility Committee
2006-2007	UMD, Biology Graduate Admissions Committee
2008-2009	Member, Cell and Molecular Biology (CAMB), Genetics and Gene Regulation (GGR) Graduate Student Review Committee
2008-2009	Member, Genomics Faculty Search Committee, Penn Genome Frontiers Institute (PGFI)
2008-2010	Member, Faculty Advisory Panel on Global Health, School of Medicine (SOM)
2009-2011	Member, PGFI Scientific Advisory Committee
2009-2010	Member, Evolutionary Biology Faculty Search Committee, Department of Biology, School of Arts and Sciences (SAS)
2010-2011	Member, Penn Fellows Advisory Committee on topic of "Global Engagement at Penn"
2010-2011	Member, GCB Graduate Group Admissions Committee
2010	Chair, GCB Graduate Group Committee to develop and grade the genomics and genetics section prelim exam for second year students
2010	Panelist, Penn Preview
2010-2011	PCBI Faculty Search Committee
2011	Panelist, Penn Preview
2011-2012	Member, GCB Graduate Group Fellowship Committee
2011-2012	Evolutionary Medicine and Information Biology Faculty Search Committee, CHOP
2011-2014	Member, Advisory Committee for PA DOH Grant - Improving Vision & Preventing Visual Impairment in Urban African Americans & Rural Amish (PI: Dwight Stambolian)
2011-2012	Member, The Role of Penn Medicine in the World Working Group, SOM
2013	Member, PSOM Global Health Research Subcommittee
2013-present	Member, Department of Genetics Search Committee for IBI Assistant Professor
2013-2014	Member, SAS Planning Group on Diversity, Difference, and Community
2013-2014	Member, SAS Planning Committee for selection of Freshman reading material for the "Year of Health"
2013-2014	Member, SOM, Task Force to Assist with Planning Child Care Facility
2014-2017	Member, SOM, Committee on Academic Freedom and Responsibility
2014-2018	Member, SOM, Penn Medicine Awards of Excellence Selection Committee
2014 – present	Member, SAS, Department of Biology, Graduate Student Advising and Assessment Committee
2014 – 2015	Member, SAS Planning Group on Big Data
2014 – present	Member, Penn Program on Race, Science, and Society (PRSS) working group
2015 – 2016	Member, SOM, Search Committee for Chair of Cell and Developmental Biology
2015 - 2018	Member, University Disciplinary Hearing Panelist
2016-2017	Member, SOM, Faculty Search Committee, Department of Genetics
2017	Member, SAS, Awards Committee
2017	Member, SOM, Child Care Implementation Committee
2017	Member, SOM, review committee for the Department of Medical Ethics and Health Policy
2018-2021	Member, SAS, Committee on Academic Freedom and Responsibility
2018 - 2021	Member, SAS, Graduate School Admissions Committee Department of Biology
2018 – 2019	Member, SOM, Faculty Search Committee, Department of Genetics
2019-2021	Member, SAS, strategic planning working groups on Diversity, Inequality, and Human Well-Being and Data Driven Discovery.

2021	Co-Chair, SOM, Department of Genetics working group focused on promotion of diversity and inclusion.
2022	Member, SOM, Department of Genetics Research Assistant Professor Faculty Search Committee
2022-2023	Member, SOM, Department of Nephrology, Faculty Search Committee

Major Academic and Clinical Teaching Responsibilities:

Masters, PhD and Postdoctoral Mentorships:

2000-2008	M.A. Student Advisor: <ul style="list-style-type: none"> • Hannah Hutton, (03/2011-12/2014) • Kristin Kaercher (09/2005-09/2008) • Bailey Levis (09/2004-12/2006) • Kweli Powell (08/2000-06/2004) • Lisa Pfeiffer (01/2001-08/2008)
2001-present	Ph.D. Student Advisor: <ul style="list-style-type: none"> • Stephen (Chris) Jones, 08/2021 – present; co-advised with Marylyn Ritchie) • Daniel Hui, GCB program (06/2020 – present; co-advised with Marylyn Ritchie) • Dan Ju, GE program (06/2018 – 12/2023; co-advisor with Iain Mathieson; postdoc Qiaomei Fu, Chinese Academy of Science) • Derek Kelly, GCB program (06/15 – 2022; postdoc UPenn) • Meagan Rubel, Anthropology program (06/2013 – 09/2020; research scientist Johnson & Johnson) • Sameer Soi, GCB program (06/2009-09/2015; biotech industry) • Felicia Gomez (09/2006-05/2013; Assistant Professor, Washington State University St. Louis) • Jibril Hirbo (08/2003-12/2010; Instructor, Vanderbilt University) • Alessia Ranciaro (06/2004-06/2008; Research Scientist, University of Pennsylvania) • Holly Mortensen (06/2001-06/2008; Bioinformatician, EPA)
2003-2008	Visiting Ph.D. Student Advisor: <ul style="list-style-type: none"> • Gil Tomas (10/2003-07/2004)
2001-present	Postdoctoral Advisor: <ul style="list-style-type: none"> • Alexander Harris (08/2020 – present) • Daniel Harris (08/2019 – present) • Chao Zhang (03/2019 – present) • Yuanqing Feng (08/2018 – 09/2023; Research Associate, UPenn) • Michael McQuillan (07/2018 – 08/2023; Research Associate, UPenn) • Eric Mbunwe (10/2016 – 07/2019; Research Scientist University of Massachusetts Lowell) • Shaohua Fan (03/2015- 08/2018) (Assistant Professor, Fudan University, China) • Marcia Holsbach Beltrame (10/2014 – 01/2018) (Assistant Professor Federal University of Parana, Brazil) • Nicholas Crawford (03/14 – 2017) (professional writer/biotech consultant)

- Matthew Hansen (09/2013-09/2017) (Senior Research Scientist, Department of Genetics, University of Pennsylvania)
- Yancy Lo (11/2015 – 12/2016) (Research Scientist, Institute of Biological Informatics, University of Pennsylvania)
- Joseph Lachance (12/2010-12/2014) (Associate Professor, Georgia Institute of Technology)
- Renata Afi Rawlings-Goss (10/2011-08/2014) (Co-Executive Director of the South Big Data Innovation Hub, Georgia Institute of Technology)
- Simon Thompson (09/2009-04/2014) (Research Coordinator at Global Alliance for Chronic Diseases, UK)
- Alessia Ranciaro (07/2008-06/2014) (Senior Research Scientist, University of Southern California)
- Michael Campbell (09/2007-06/2014) (Assistant Professor, University of Southern California)
- Jibril Hirbo (12/2010-12/2013) (Research Scientist, Vanderbilt University)
- Laura Scheinfeldt (2009-2013) (Director of Repository Science, Coriell Institute)
- Clara Elbers (07/2010-02/2013) (Research Scientist, Amsterdam Medical Center)
- Bart Ferwerda (07/2010-6/2012) (Research Scientist, Amsterdam Medical Center)
- Wen-Ya Ko (06/2007-12/2012) (Assistant Professor, Yang-Ming University, Taiwan)
- Joe Jarvis (08/2008-10/2011) (Senior Research Associate, Coriell Institute)
- Charla Lambert (11/2008-01/2010) (Cold Spring Harbor Laboratories)
- Floyd Reed (03/2005-03/2008; Assistant Professor, University of Hawaii)
- Katy Gonder (01/2002-07/2007; Associate Professor, Drexel University)
- Eduardo Tarazona-Santos (3/2001-11/2003; Associate Professor, Universidade Federal de Minas Gerais, Brazil)
- Brian Verrelli (02/2001-11/2003; Associate Professor, Virginia Commonwealth University)
- Agnes Awomoyi (03/2001-01/2003; Research Associate, Ohio State University)

PhD Committee Memberships:

2000-present Ph.D. Committee Member:

UMD: Eduardo Eizirik, Matthew Kostek, Colin Rose, Paul Zwiers, Jonathan Beadell, Peng Yue, Bailey Levis

Penn: Natalie Miller, Yang Jiao, Sesh Sundararaman, Sameer Soi, Hannah Hutton, Meagan Rubel, Mitra Eghbal, Adam San Miguel, Scott Norton, Katie Siewert, Kelsey Johnson (chair), Christopher Adams (chair)

2014 - 2015 Penn: Candidacy exam committee for Alexander Berry (Biology), and Kelsey Johnson (GGR)

Supervised Undergraduate Internships:

2001-2004 UMD: Supervised 2 students/year in the honors internship program (BSCI 399H)

2001-2008	<u>UMD</u> : Supervised between 2-3 students/year in undergraduate internships (BSCI 399 or 279)
2008-present	<u>Penn</u> : Supervised between 2-3 undergraduate students/year who did research in lab (BIOL 399 or 499)
2001-present	Undergraduate Research Advisor: <u>Current</u> : Anya Jayanthi, Mmachi Ezigbo <u>Past</u> : Daniel Wagner, Amy House, Emily Ashcraft, Chintan Patel, Jim Pineno, Prasad Acharya, Karena Sylvester, Radhika Akkapeddi, Hawa Almansoori, Kathy Deljou, Sarah Hall, Sara Roschwalb, Aiman Saleh, Jonathan Hodax, Fizza Shaikh, Daniel Richard, Ning Lu, Ebuka Nwokoye, Jennifer Kessler, Nikhil Joshi, Sandra Winters, Esther Whitlock, Brittany Taylor, Sarah Akkoush, Isabel Fan, Dan Zinshteyn (graduate student, Cornell), Evan Daugharty (graduate student, Harvard), Robyn Jordan, Charles Washington (PhD student University of Chicago); Avery Davis (graduate student, Harvard University), Robbie Berg, John Russell, Kristin Mullen, Christopher Nagle, Tina Kartika, Stephanie Fagbemi, Arielle Fogel, Juliette Rando, Elizabeth Eyer mann, Andrej Petoski, Augustine Benjamin, Sriya Beesam, Nadia Ngobm, Cayden Franklin, Danielle Liu, Nicole da Costa, Chigozie Ibe, Christina Coppola
2004-2009	High School Research Advisor: Aiman Saleh (2004-2005), Joseph Mustapha (2009), Jennifer Okwara (2021)
2010 - present	BGS Summer Undergraduate Internship Program (SUIP), Michelle Haring (2010; graduate student Michigan State University), Guarav Luthria (2014; finishing undergraduate studies at UBMC), Alec Downie (2015; summer intern from Yale), Jake Haut (2015; summer intern from Rochester Institute of Technology), Alyssa Cruz (2022; summer SUIP intern), Peyton DiSiena (2023; summer SUIP intern), Jahnvi Patel (2023; summer SUIP intern),

Courses Taught:

2001-2006	UMD, BIOL 608 Topics in Human Evolutionary Genetics (graduate seminar) (6-14 students/semester, taught once/year)
2001-2007	Established and implemented a new interdisciplinary, inter-institutional graduate training program in Human Evolutionary Biology with GWU, Howard, and UMD; devised the program and curriculum and met bi-yearly on the PI and graduate admissions committees
2002	Developed a new course and curriculum for an advanced undergraduate course in Human Genetics (BSCI 416 The Biology of the Human Genome); also developed a Webpage for this course
2002-2007	UMD, BSCI 416 The Biology of the human genome (35-75 students/ class taught once/year)
2008-2011	Penn, Fall, Medical Genetics, first year medical school class (one lecture 2008, two lectures 2009, one lecture 2010, one lecture 2011)
2008-2009	Penn, Spring, Biol 121, Introductory Biology (one lecture/year in 2008 and 2009)
2008-2009	Penn, Fall, Biol 221, Molecular Biology and Genetics (one lecture/year in 2008 and 2009)
2009-2015	Penn, Spring, Biol 422, Genomics of Human Disease and Evolution (formerly called

	“Human Genetics and Genomics”), 30 - 35 undergraduate and graduate students (3 hrs/week, total of 42 lecture hours in the semester in 2009, 2011, 2013, 2015)
2010-present	Penn, Spring, Biol 522, Human Evolutionary Genomics, Graduate/Advanced Undergraduate Seminar, 15 undergraduate students/1 graduate student (joint CAMB/Biology; 3 hrs./week in 2010, 2012, 2014, 2016, 2018, 2019, 2021, 2022, 2024)
2011	Lecturer, University of Pennsylvania Biology Department's Teacher Professional Development Series
2011-2018	Penn, Spring, CAMB 550, Genetic Principles (one lecture, one discussion session in 2011, 2 lectures and one discussion session in 2012 - 2017)
2004, 2010-2023	Lecturer, Jackson Labs Course in Mammalian Genetics, Bar Harbor, ME
2011	Lecturer, Yale Undergraduate course in “Evolutionary Medicine” taught by Stephen Stearns
2011	Lecturer, Pinkham Course in the Basic Sciences, Swedish Hospital, Seattle Washington
2011	Lecturer, HHMI Holliday Series, live and videotaped broadcast to high school students
2012	Lecture at Bryn Mawr to students in Biol 327, “Evolutionary Genetics and Genomics”
2012	Lecture and discussions with M.D. and Ph.D. students in the Public Health Certificate Program (PHCP), School of Medicine, University of Pennsylvania
2012	“Dinner With Interesting People,” Lecture and discussion with freshman students, McClelland Hall, University of Pennsylvania
2013	Penn, Spring, Biol 422, Genomics of Human Disease and Evolution, 39 students (3 hrs/week, total of 42 lecture hours)
2014	Taught Penn Preceptorial on African Genomics: Implications for human evolution and disease
2016	Responsible Conduct of Research lecture on ethics and genomics.
2017 - 2019	Lecturer, Biol 221 Introduction to Genetics (3 lectures on population genetics)
2017 - 2019	Lecturer, Biol 121 Introduction to Biology/Molecular biology (1 lecture)
2018	Lecturer, Epidemiology 584 (1 lecture)
2018	Lecturer, AFRC 307-401/SOCI 307-401 Race, Science & Justice (1 lecture)
2020	Lecturer, Clinical Genetics Fellows (focus on health disparities) (1 lecture)
2021 - 2023	Lecturer, GCB534, Experimental Genomics (1 lecture)
2020 – 2023	Lecturer, EPID 584, Health Disparities Research (1 lecture)
2023 - 2024	Lecturer, GL207, Biology and Society (1 lecture)

Lectures by Invitation:1995:

Jan, 1995	Oxford University, Department of Genetics, John Radcliffe Hospital, UK
Jan, 1995	University of Munich, Department of Zoology, Germany
Feb, 1995	Sapienza University, Rome, Department of Biology, Italy
Apr, 1995	Northwestern University, Department of Anthropology
Sep, 1995	Penn State University, Department of Anthropology

1996:

Feb, 1996	New York Consortium in Evolutionary Primatology
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1997:

Jan, 1997	University of Barcelona, Department of Biological Sciences, Spain
Feb, 1997	Stanford University, Department of Anthropology
Apr, 1997	Human Biology Association meeting, symposium on "Interpreting Patterns of Human Genetic Diversity", St. Louis
Jun, 1997	Trinational Workshop on Molecular Evolution, Munich, Germany
Aug, 1997	University of the Witwatersrand, Department of Human Genetics, South Africa
Aug, 1997	University of Pretoria, Department of Mammalian Genetics, South Africa
<u>1998:</u>	
Jan, 1998	Columbia University, Department of Anthropology
Feb, 1998	University of New Mexico, Department of Anthropology
Feb, 1998	Mt. Sinai Medical School, Department of Human Genetics
Apr, 1998	American Association of Anthropological Genetics/American Association of Physical Anthropology, Symposium on Genetics and Origins of Human Diversity
May, 1998	University of Connecticut at Storrs, Department of Anthropology
Jun, 1998	Trinational Workshop of Molecular Evolution, Vancouver, CA
<u>1999:</u>	
Jan, 1999	American Association for the Advancement of Science Meeting, Symposium on "The Emergence of modern Human Form" organized by Dr. Loring Brace
Feb, 1999	National Cancer Institute, Frederick, MD
Feb, 1999	Department of Biology, University of Maryland
May, 1999	Symposium on "Pattern and Implications of Human Genetic Variation" organized by Dr. Joanna Mountain, Stanford University, Dept. of Anthropological Sciences
Jun, 1999	Symposium on "Genome Diversity and Evolution" organized by Dr. Masatoshi Nei, in conjunction with the 1999 annual meeting of the American Genetic Association, Penn State University
Jun, 1999	Department of Biology, New York University
Jun, 1999	Department of Molecular Biology and Development, Cornell University
Nov, 1999	Symposium on "The Emergence of Modern Human Form", organized by Dr. C. Loring Brace, American Association of Anthropologists meeting, Chigaco, Ill.
<u>2000:</u>	
Apr, 2000	Symposium on "Modern Human Origins", organized by Dr. C. Loring Brace, American Association of Physical Anthropology meeting, San Antonio, TX.
Dec, 2000	Department of Anatomy, Howard University Medical School, Washington D.C.
<u>2001:</u>	
Feb, 2001	Symposium on "Know Thyself: The Human Genome Project", sponsored by the Wilson Center for Leadership in the Public Interest, Hampden Sydney College, Hampden-Sydney VA
Mar, 2001	Symposium on "Human Dimensions of Biodiversity", sponsored by the Human Biology Assoc. and the International Assoc. of Human Biology, Kansas City, MO
Oct, 2001	"Why is the study of African genetic diversity important for understanding modern human origins and the genetic basis of human disease?", Symposium on African Genetic Diversity, American Society of Human Genetics Meetings, San Diego, CA
Nov, 2001	Invited participant in panel discussion on "Where do people come from and how do we know? Reconciling Interdisciplinary approaches to questions of origins", American Association of Anthropology. Washington D.C.
<u>2002:</u>	
Feb, 2002	Dept. of Human Genetics, Univ. of Maryland, Baltimore, MD.
Apr, 2002	Symposium on "Northeast African Biocultural diversity," American Association of Physical Anthropology, Buffalo, NY

- Apr, 2002 Dept of Epidemiology, School of Medicine, University of Pennsylvania, Philadelphia, PA
- May, 2002 Symposium on Theoretical and Empirical Advances in the Study of Effective Population Size, Smithsonian Institute, Washington D.C.
- Jun, 2002 National Institute on Deafness and Other Communication Disorders, NIH, Rockville, MD
- Jun, 2002 Laboratory of Malaria and Vector Research," National Institute of Allergy and Infectious Diseases/NIH, Bethesda, MD
- Sep, 2002 Keynote Speaker, 3rd MeHarry/Vanderbilt Alliance Genetics Symposium, Nashville, TN
- Sep, 2002 Packard Foundation Career Awardee Meeting, Monterey, CA
- Oct, 2002 5th International Meeting on Single Nucleotide Polymorphism and Complex Genome Analysis," Reykjavik, Iceland
- Oct, 2002 Whitehead Press Seminar, MIT, Boston, MA
- Nov, 2002 Biosciences Symposium, University of Maryland, College Park, MD
- Nov, 2002 Meeting on East African Genetics, University of Khartoum, Khartoum, The Sudan
- 2003:
- Feb, 2003 US/Egyptian Joint Workshop on Anthropology, Cairo, Egypt
- Mar, 2003 Dept. of Epidemiology, Johns Hopkins University, Baltimore, MD
- Mar, 2003 Distinguished speaker, Computational Molecular Biology Symposium, Carnegie Mellon University, Pittsburgh, PA
- Mar, 2003 Distinguished Lecture Series, Laboratory of Genomic Diversity, National Cancer Institute, NIH, Frederick, MD
- Apr, 2003 National Cancer Institute, NIH, Rockville, MD
- May, 2003 Workshop on genetic and linguistic history of Bantu populations of Africa, University of Lyon, Lyon, France
- Jun, 2003 National Institute of Mental Health, NIH, Baltimore, MD
- Jun, 2003 "Journey of Man: A look at our amazing human history" (lecture/commentary on a newly released documentary on the evolutionary history of the Y chromosome in humans), National Institute of General Medical Sciences, NIH, Baltimore, MD
- Oct, 2003 Symposium on host/pathogen coevolution sponsored by the Genetics and Genomics Training Grant, Harvard University, Cambridge, MA
- Nov, 2003 Biosciences symposium, University of Maryland, College Park, MD
- Nov, 2003 Dept. of Biology, University of Pennsylvania, Phila., PA
- 2004:
- Feb, 2004 The Institute of Genome Research, Rockville, MD
- Feb, 2004 Dept. of Biology, Georgetown University, Washington, D.C.
- Feb, 2004 Gordon Conference on Molecular Evolution, Ventura, CA.
- Mar, 2004 Symposium on Genomics and Society: Implications for the future health of Africa, Cairo, Egypt.
- Mar, 2004 Workshop on Race and Genetics, NIGR, NIH, Bethesda, MD
- Apr, 2004 Symposium on Human Ecological Immunity: Models and Methods for Future Research, AAPA/HBA meetings, Tampa, Florida
- May, 2004 Symposium on The Future of Human and Medical Genetics Based on Contributions of Arno G. Motulsky, Genome Sciences, University of Washington School of Medicine (One of seven international scientists chosen by Dr. Motulsky to speak at a symposium in honor of the establishment of an endowed chair in his name)
- Sep, 2004 American Association of Anthropology workshop on Race and Genetics, Washington D.C.

- Nov, 2004 Invited by graduate students in the Biological Sciences Program as part of their Women in Science seminar series, Case-Western University, Cleveland, OH
- 2005:
- Jan, 2005 Monell Chemical Senses Center, University of Pennsylvania, Philadelphia, PA
- Apr, 2005 Marshfield Medical Research Institute, Marshfield, WI
- Apr, 2005 Symposium on Bridging theory and data in the context of anthropological genetics, AAPA meeting, Milwaukee, WI
- May, 2005 National Museum of Natural History, Smithsonian, Washington D.C.
- Jul, 2005 Invited Lecturer, Mammalian Genetics Course, Jackson Labs, Bar Harbor, Maine
- Dec, 2005 Dept. of Human Genetics, University of Chicago, Chicago, Illinois
- Dec, 2005 Dept. of Biology, Duke University, Durham, NC
- 2006:
- Jun, 2006 NHGRI, NIH, Bethesda, MD
- Aug, 2006 Keynote Speaker for Workshop on The Genomic Revolution and the Origin of Humanity, McMaster University, Hamilton, Ontario
- Oct, 2006 Symposium on natural selection and infectious disease, American Society of Human Genetics meeting, New Orleans, Louisiana
- Nov, 2006 Frontiers in Biology Seminar Series, Department of Genetics, Stanford University, Stanford, CA
- 2007:
- Feb, 2007 Dept of Genetics, Rutgers University, New Brunswick, NJ
- Feb, 2007 Program in Human Genetics, University of Maryland, Baltimore, MD
- Mar, 2007 Department of Genetics, University of Pennsylvania, Philadelphia, PA
- Apr, 2007 High School Teachers Workshop, University of Maryland, Baltimore, MD
- May, 2007 Biology of the Genome Meeting, Cold Spring Harbor, NY
- May, 2007 Keynote speaker, American Institute of Biological Sciences Symposium, Washington D.C.
- May, 2007 US Naval Observatory, Washington D.C.
- May, 2007 Symposium on "Genetics of Infectious Disease", The Human Genome Organization meeting, Montreal, Canada
- Jul, 2007 Human Genetics and Genomics Gordon Research Conference, Newport RI
- Sep, 2007 Wellcome Trust Sanger Institute in Cambridge, UK
- Oct, 2007 Banbury Conference on Human Variation, Cold Spring Harbor, NY
- Oct, 2007 National Institute of Diabetes and Digestive and Kidney Diseases, NIH, Bethesda, MD
- Nov, 2007 Keynote speaker, African Society of Human Genetics conference, Cairo, Egypt
- 2008:
- Feb, 2008 Gordon Research Conference on Molecular Evolution, Ventura, CA
- Feb, 2008 Keystone Symposium on Complex Traits: Biologic and Therapeutic Insights, Santa Fe, NM
- Mar, 2008 Department of Molecular Microbiology and Immunology and the Division of Infectious Diseases, Johns Hopkins University, Baltimore, MD
- Mar, 2008 Division of Medical Genetics, Children's Hospital of Philadelphia (CHOP), Philadelphia, PA
- Apr, 2008 Burroughs Wellcome Foundation, Plasmodium Meeting, London, England
- Apr, 2008 Division of Nutritional Sciences, Cornell University, Ithaca, NY
- May, 2008 Keynote Speaker, Evolution and Medicine Lecture Series, NIGMS, NIH (filmed for video archive)
- Jun, 2008 Invited speaker, Society for Molecular Biology and Evolution and European Society

	of Human Genetics Meeting, Barcelona, Spain.
Jun, 2008	Society for Molecular Biology and Evolution Meeting, section on infectious disease evolution
Sep, 2008	Symposium in honor of Charles Darwin, Smurfit Institute of Genetics, Dublin, Ireland
Oct, 2008	Banbury Meeting on Ancestry in Human Populations, Cold Spring Harbor, NY
Oct, 2008	Workshop on Natural Selection, Ethics, and Disease, NIH, Bethesda, MD
Oct, 2008	Human Genome Variation Meeting, Toronto, Canada
Nov, 2008	Genetics Colloquium in Honor of Charles Darwin, University of Wisconsin, Madison, WI
<u>2009:</u>	
Jan, 2009	Genomics Colloquium in honor of Charles Darwin, University of Cincinnati, Cincinnati, OH
Feb, 2009	Symposium on Adaptation in honor of Charles Darwin, organized by Eric Green, AAAS Meeting, Chicago, IL.
Feb, 2009	University of Pennsylvania Museum of Archaeology and Anthropology, Darwin's Legacy in 21st Century Biology Symposium, Philadelphia, PA
Mar, 2009	African Society of Human Genetics Conference, Yaounde, Cameroon
Mar, 2009	Wellcome Trust Meeting, Yaounde, Cameroon
Apr, 2009	Keynote speaker at Case Western University as part of their celebration of the 150th anniversary in 2008-09 of the publication of the Darwin-Wallace paper, Cleveland, OH
Apr, 2009	Invited speaker, American Academy of Physical Anthropologists Meeting, Chicago, IL
Apr, 2009	Making History Campaign, University of Pennsylvania held in Washington, DC
May, 2009	Cold Spring Harbor Symposium in honor of Charles Darwin titled "Evolution - the Molecular Landscape"
May, 2009	Linguistics and Genetics Workshop, Center for Behavior, Evolution, and Culture, UCLA, Los Angeles, CA
May, 2009	Darwin Symposium Series, UCLA, Los Angeles, CA
Jul, 2009	Duke University, HOMINID Project group
Oct, 2009	Conference on Host Genetics Control of Infectious Diseases, Pasteur Institute, Paris, France
Oct, 2009	Keynote Speaker, Special Symposium on the 200th anniversary of the birth of Charles Darwin, American Society of Human Genetics Meeting, Honolulu, HI
Nov, 2009	North Carolina State, Genomics Program, Raleigh, NC
Dec, 2009	Sackler Colloquia "In the Light of Evolution IV: The Human Condition" National Academies of Sciences, Irvine, CA
Dec, 2009	Penn Alumni Event "Engaging Minds", NYC Times Center
<u>2010:</u>	
Jan, 2010	Department of Biology, Addis Ababa University, Ethiopia
Jan, 2010	University of Botswana, Gaborone, Botswana
Jan, 2010	The Malaria Research and Training Unit, Bamako, Mali
Feb, 2010	African American Origins Workshop organized by Henry Louis Gates, Harvard University
Feb, 2010	NIH workshop on lactose intolerance, Washington, DC
Mar, 2010	UC San Diego, Genomics Seminar Series
Mar, 2010	Center for Academic Research and Training in Anthropology (CARTA), Human Origins Workshop, UCSD

Apr, 2010	Global Health Program of the Bill & Melinda Gates Foundation, Meeting focused on studies of vaccine efficiency in developing countries
Apr, 2010	SUNY Stony Brook, Department of Ecology and Evolutionary Biology
May, 2010	Keynote Speaker, Genomics Retreat, Univ of Utah
Jun, 2010	BioMAPS Institute for Quantitative Biology, summer school speaker, Rutgers University
Jul, 2010	Invited Lecturer, Jackson Labs, Annual Short Course on Experimental and Medical Mammalian Genetics, Bar Harbor, ME
Oct, 2010	Meeting on "Beyond the Genome: The true gene count, human evolution and disease genomics", Harvard University Medical School, Boston, MA
Oct, 2010	Keynote Speaker, Human Genetics Institute of New Jersey, Rutgers University
Nov, 2010	University of Washington, Genome Sciences, Invited by graduate students
Dec, 2010	Department of Biostatistics and Epidemiology, Johns Hopkins University
Dec, 2010	Arnold D. Kates Lecturer, Bowdoin College, ME
<u>2011:</u>	
Jan, 2011	Department of Genetics, Mt Sinai University, New York
Feb, 2011	Session Titled "Humans Without Borders: Evolutionary Processes at Work in Humans and Their Relatives", AAAS Meeting
Mar, 2011	Keynote Speaker, African Society of Human Genetics Meeting, Cape Town, South Africa
Mar, 2011	Lecture at Centre for San Studies, University of Botswana, Gaborone, Botswana
Apr, 2011	Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ
Jun, 2011	Department of Genetics, Harvard University (Graduate Student Invited Lecture)
Jun, 2011	The Sheba Legacy Meeting "The Genetics of migrant and isolated populations 1961-2011" Dan Accadia, Israel
Jun, 2011	CHOP/Penn Next Generation Sequencing Symposium
Jul, 2011	Invited Lecturer, Jackson Labs Annual Short Course on Mammalian Genetics, Bar Harbor, ME
Sep, 2011	Department Seminar, Panel Discussion on BBC Film, Advanced Seminar in undergraduate course "Evolutionary Medicine". Yale University, New Haven, CT.
Oct, 2011	Department of Anthropology, Washington University St. Louis, St. Louis, MO
Oct, 2011	HHMI Holiday Lectures, live and videotaped broadcast to high school students, Washington, DC
Nov, 2011	Roland Pinkham Basic Science Lecture, University of Washington, Seattle, WA.
Dec, 2011	NESCent Workshop on Language Evolution, Durham, NC
<u>2012:</u>	
Jan, 2012	Department of Pathology and Medicine at the Philadelphia VA Medical Center (PVAMC)
Jan, 2012	Affymetrix, Santa Clara, CA
Jan, 2012	Symposium on Human Genomic Variation, UC Berkeley.
Feb, 2012	Armauer Hansen Research Institute, Addis Ababa, Ethiopia
Mar, 2012	Keynote Speaker, Genetics of the Peoples of Africa and the Transatlantic Diaspora, University of North Carolina, Chapel Hill, NC
Apr, 2012	W.E.B. Du Bois Lecture Series, W.E.B. Du Bois Institute for African and African American Studies, Harvard University
Apr, 2012	Center for Academic Research and Training in Anthropogeny, UCSD, San Diego.
Jul, 2012	Invited Lecturer, Jackson Labs Short Course in Mammalian Genetics, Bar Harbor,

	ME
Sep, 2012	Keynote Speaker, Genomics of Common Diseases 2012 organized by Nature Genetics and Wellcome Trust, Potomac, MD.
Sep, 2012	Keynote Speaker, Bioinformatics & Genomics (B & G) Retreat 2012 at Pennsylvania State University
Oct, 2012	13th Annual Genetics Symposium, Vanderbilt Center for Human Genetics Research, Nashville, TN
<u>2013:</u>	
Jan, 2013	University of Pennsylvania Anthropology Colloquium
Feb, 2013	Eugene Perrin Lecture on Health Sciences and Peace, Wayne State University, Detroit, MI
Feb, 2013	University of Pennsylvania, FOCUS on Health & Leadership for Women
Mar, 2013	Williams College, Williamstown, MA
Mar, 2013	Four Field Colloquium series, Department of Anthropology, University of Michigan, Ann Arbor, MI
Apr, 2013	Keynote speaker, GET (Genomes, Environment, Traits) conference, Boston, MA
Apr, 2013	Keynote speaker, Symposium in honor of the 10th anniversary of the Human Genome Project, NHGRI, NIH
May, 2013	Plenary Speaker, Genetics and Genomics Section, American Thoracic Society International Conference in Philadelphia
Jun, 2013	Plenary Lecturer, Endocrine Society (ENDO) meeting 2013, San Francisco, CA
Jul, 2013	Invited Lecturer, Jackson Labs Short Course in Mammalian Genetics, Bar Harbor, ME
Sep, 2013	Plenary Speaker, Clarke Forum for Contemporary Issues, Dickinson College, Carlisle, Pennsylvania
Sep, 2013	Discussant, The African Diaspora: Integrating Culture Genomics and History Symposium, Smithsonian Museum/NHGRI
Oct, 2013	Invited Lecturer, Penn Institute for Computational Science (PICS) Kickoff Symposium
Oct, 2013	Symposium in honor of Kenneth Kidd, Massachusetts General Hospital, Harvard, Boston, MA
Oct, 2013	Plenary Speaker, Dean's Distinguished Lecture series, Rowan College, PA
Nov, 2013	Interdisciplinary Sciences Seminar Series, Gettysburg College, PA
Nov, 2013	Yale University, Department of Ecology and Evolutionary Biology
<u>2014:</u>	
Jan, 2014	Lecture, Neonatology Research Seminar, University of Pennsylvania
Feb, 2014	Department of Ecology and Evolutionary Biology, Brown University
Feb, 2014	Invited Speaker, Alabama Lectures on Life's Evolution (ALLELE), University of Alabama, Huntsville
Mar, 2014	Invited Speaker, Cell Symposium: Evolution of Modern Humans - From Bones to Genomes, Meliá, Sitges, Spain
Apr, 2014	Invited Speaker, the 7th Annual Dartmouth Integrative Biology Symposium
Apr, 2014	Keynote Speaker, RECOMB 2014 (Research in Computational Molecular Biology) Pittsburgh, PA
Apr, 2014	Invited Lecturer, Department of Pathology Grand Rounds, University of Pennsylvania
May, 2014	Cornell Center for Comparative and Population Genomics
May, 2014	Laureate's Lecture, School of Medicine, University of Pittsburgh
Jun, 2014	Keynote Speaker, International Conference on Zebrafish Development and Genetics,

	Madison Wisconsin
Jun, 2014	Plenary Speaker, Society for Molecular Biology and Evolution, San Juan, Puerto Rico
Jul, 2014	Invited Speaker, Principals in Population Genetics: A coalescence of community to celebrate Andy Clark, Cornell
Jul, 2014	Invited lecturer, Jackson Labs Course in Mammalian Genetics, Bar Harbor, ME
Dec, 2014	High Risk/High Reward Symposium, NIH
<u>2015:</u>	
Jan, 2015	University of Yaounde, Cameroon
Feb, 2015	Plenary Speaker, Advances in Genome Biology and Technology (AGBT) meeting, Marco Island, Florida
Apr, 2015	Wolk Lecture, Colgate University, Hamilton, NY
Apr, 2015	Invited Speaker, Genomics, Genetics, and Systems Biology (GGSB) symposium on Human Evolution, University of Chicago
Apr, 2015	Invited Speaker, PASEF, University of Pennsylvania
May, 2015	Department of Human Genetics, UCLA, Los Angeles, CA
May, 2015	Invited Speaker, Center for Excellence in Environmental Toxicology Annual symposium, University of Pennsylvania
May 2015	Invited Speaker, New York Genome Center Genentech, San Francisco, CA
June, 2015	Invited Lecturer, Jackson Labs, 56 th Annual Short Course on Medical and Experimental Mammalian Genetics, Bar Harbor, ME
July, 2015	Department of Biology, McMaster University, Hamilton, Ontario, CA
Sept, 2015	Keynote Speaker, Biological Graduate Studies 30 th anniversary Symposium, University of Pennsylvania
Oct, 2015	Harris Lewin Pioneer Lecture, University of Illinois, Urbana-Champaign
Oct, 2015	Invited Speaker, Bioinformatics and Systems Biology Symposium Series, UCSD, San Diego, California (rescheduled)
Nov, 2015	Invited Speaker, AAAS Meeting Symposium on “The Human Story in Africa”, Washington DC
<u>2016:</u>	
Feb, 2016	Darwin Lecture, Duquesne University, Pittsburgh, PA
Feb, 2016	Darwin Lecture, Center for Genomics and Systems Biology, NYU, New York, NY
Mar, 2016	Department of Systems Biology, Columbia University, New York, NY
Apr, 2016	Keynote Speaker, Genomics and Systems Biology Retreat, UCSD, CA
May, 2016	U of Utah School of Medicine Benning Medical Society Lecture
May, 2016	Invited Speaker, Keystone Symposia on “Understanding the Function of Human Genome Variation”, Uppsala, Sweden.
July, 2016	Invited Lecturer, Jackson Labs 57 th Human and Mammalian Genomics Course, Bar Harbor, ME
Sept, 2016	Colloquium on the Biology of Populations, Princeton University
Oct, 2016	Invited Speaker, Symposium on Pharmacogenetics, ASHG
Nov, 2016	Featured speaker at Genomics and Health Disparities Lecture sponsored by NHGRI/NIH and FDA
Dec, 2016	Invited Lecture, Duke University Program in Genetics and Genomics
<u>2017:</u>	
Mar, 2017	Rutgers University, graduate student invited speaker
Apr, 2017	14 th Annual CC Li Lecture, University of Pittsburgh

May, 2017	Evelyn Spritz Lecture in Human Genetics and Genomics, University of Colorado School of Medicine, Boulder, CO
June, 2017	World Science Festival, New York, NY
June, 2017	Marabou Symposium on “Nutrition and Human Evolution”
July, 2017	Invited Lecturer, Jackson Labs Human and Mammalian Genomics Course, Bar Harbor, ME
Aug, 2017	Department of Human Genetics, Vanderbilt University
Sept, 2017	Keynote Speaker, International Pigment Cell Conference, Denver, CO
Oct, 2017	Department of Biology Retreat, University of Pennsylvania, Philadelphia, PA
Oct, 2017	Department of Anthropology, Rutgers University
Oct, 2017	ASHG Education symposium, Orlando, FL
Nov, 2017	Center for Evolution and Medicine, Arizona State University, AZ
Nov, 2017	Keynote Speaker, 10th Anniversary of the Institute for Genome Sciences, University of Maryland, Baltimore
Nov, 2017	Cockerham Lecture, North Carolina State University, Raleigh, NC.
Dec, 2017	Speaker, PIK symposium and discussion on “Decoding Racial and Ethnic Disparities in Health Care, University of Pennsylvania, Philadelphia, PA
Dec, 2017	Keynote Speaker, NIEHS Superfund Research meeting, Philadelphia, PA
Dec, 2017	Keynote Speaker Rutgers Camden Center for Computational and Integrative Biology Retreat
<u>2018:</u>	
Feb, 2018	Keynote speaker, Darwin Day, University of Texas at Tyler, TX. Biology of Genomes Meeting
Mar, 2018	“Impact of Genomic Medicine on Health Disparities”, Chan-Zuckerberg Initiative, San Francisco, CA
Mar, 2018	“Teach-In” Opening symposium and discussion on “Knowledge Production, Communications and Impact in the 21st Century, Philadelphia, PA
May, 2018	University of Washington, Genome Sciences
June, 2018	Speaker, Chronobiology Seminar Series, University of Pennsylvania, Philadelphia, PA
July, 2018	Invited Lecturer, Jackson Labs, Short Course in Mammalian Genetics, Bar Harbor, ME
Sept, 2018	Department of Genetics Retreat, University of Pennsylvania, Philadelphia, PA
Sept, 2018	Symposium and discussion on “Does Race Exist? Exploring the Future of Genetics, Ancestry, and Medicine”, Franklin Institute, Philadelphia, PA
<u>2019:</u>	
Feb, 2019	Session on “Transcending racial boundaries in human genetic research”, AAAS meeting, Washington DC
Mar, 2019	Institute of Ecology and Evolution, University of Oregon, Eugene, OR
Mar, 2019	CARTA 10th anniversary symposium, UCSD, San Diego, CA
April, 2019	The Lawrenceville School, Lawrenceville, NJ
April, 2019	UNC Chapel Hill, Department of Biology Charles Bronfman Institute for Personalized Medicine, Icahn School of Medicine at Mt Sinai, New York
May, 2019	
June, 2019	The Genetic Basis of Type 2 Diabetes, American Diabetes Association Meeting, San Francisco, CA.
June, 2019	Molecular and Human Genetics, Baylor School of Medicine, Houston, TX
July, 2019	Invited Lecturer, Jackson Labs Human and Mammalian Genomics Course, Bar Harbor, ME

Aug, 2019 Creating an African Immune Cell Atlas, Human Cell Atlas Meeting, Toronto, Canada
 Sept, 2019 Chan Zuckerberg Institute, Redwood City, CA
 Sept, 2019 Division of Human Genetics, Genentech, South San Francisco, CA
 Sept, 2019 Million Veterans Program, Science Meeting, Philadelphia, PA
 Sept, 2019 Keynote Speaker, Evolution in Philadelphia Conference, Philadelphia, PA
 Oct, 2019 Human Evolution Conference, Sanger Institution, Cambridge, UK
 Nov, 2019 Diabetes Center, Einstein University, New York, NY
 Nov, 2019 Dewitt Goodman Seminar, Columbia University School of Medicine, New York, NY
 Dec, 2019 Quantitative and Computational Biology seminar series, Princeton University, Princeton, NJ

2020:

Jan, 2020 Penn Research Ethics and Policy Seminar Series, University of Pennsylvania, Philadelphia, PA
 Center for Research in Anthropogeny (CARTA), UC San Diego, San Diego, CA
 Feb, 2020 (cancelled)
 Health Equity Lecture, University of Pennsylvania, Philadelphia, PA (postponed)
 Apr, 2020 Third NCI Cancer Health Disparities Research Symposium, NIH, Bethesda, MD (postponed)
 Genetics Graduate Group, UC Davis, Davis, CA (postponed)
 Apr, 2020 Pharmaceutical Sciences and Pharmacogenetics Seminar, UCSF, San Francisco, CA (postponed)
 Symposium on “Genomics and Disease”, University of Virginia, Charlottesville, VA (postponed)
 May, 2020 Genetics Seminar Series, Harvard School of Medicine, Boston, MA (postponed)
 May 2020 American Diabetes Association, Invited Lecture, Chicago, IL. (virtual)
 May, 2020 Invited Lecturer, Jackson Labs Human and Mammalian Genomics Course, Bar Harbor, ME. (virtual)
 June, 2020 Keynote speaker, Saltiel Life Sciences Institute Symposium, University of Michigan, Ann Arbor, MI (virtual)
 July, 2020 Keynote speaker, Multiomics and Precision Medicine Joint Conference, Taiwan, China (virtual)
 Sept, 2020 Lecture and panel discussion, New York Skin Club meeting, NY, NY (virtual).
 Nov, 2020 Keynote speaker, NHLBI TOPMed Meeting (virtual)
 Dec, 2020

2021

Jan, 2021 Keynote speaker, Genomic Frontiers Conference, Duke University (virtual)
 Jan, 2021 Department of Human Genetics, University of Utah, Salt Lake City, UT (virtual)
 Jan, 2021 Expanding Minds the Allen Institute Conference on Human Brain Evolution, Seattle, WA (virtual)
 Feb, 2021 Speaker, Anti-Racism Grand Rounds, Penn Medical Scientist Training Program (MSTP) Anti-Racism Committee, University of Pennsylvania (virtual)
 Feb, 2021 CPHG Genome Sciences Seminar, University of Virginia (virtual)
 Feb, 2021 Speaker, UCLA Bioinformatics IDP and Human Genetics Seminar Series (virtual)
 Mar, 2021 Speaker, International Symposium on Human Genetics, South Africa (virtual)
 Apr, 2021 Keynote Speaker, Genome Institute of Singapore Seminar (virtual)
 Apr, 2021 Speaker, Bassett Center for BRCA, University of Pennsylvania (virtual)
 Apr, 2021 Panelist, “Biases in Genetics and Genomics” Symposium, Program in Genetics and Genomics, Harvard University (virtual)
 May, 2021 Speaker, CHARGE Consortium Meeting (virtual)

May, 2021	Genetics Graduate Group, University of California, Davis, Genetics Seminar, Davis, CA (virtual)
May, 2021	Pharmaceutical Sciences and Pharmacogenetics Seminar, UCSF, San Francisco, CA (virtual)
May, 2021	Speaker, 3rd NCI Cancer Health Disparities Symposium (virtual)
June 2021	Lecturer, Turkana Basin Institute course on Human Evolutionary History, Kenya (virtual)
June, 2021	Speaker, Johns Hopkins McKusick-Nathans Dept of Genetic Medicine (Virtual)
June, 2021	Invited Lecturer, Jackson Labs Human and Mammalian Genomics Course, Bar Harbor, ME. (virtual)
Sept, 2021	Genome Science Training Program (GSTP), University of Michigan, Ann Arbor, MI (virtual)
Sept, 2021	Speaker, Cell Symposia Express: 20 Years of the Human Genome: From Sequence to Substance (virtual)
Nov, 2021	Speaker, Rockefeller University (virtual)
Nov, 2021	Speaker, Symposium on "Understanding COVID-19 and Addressing Disparities in Care", University of Pennsylvania
Nov, 2021	Speaker, Institute for Diabetes, Obesity, and Metabolism, University of Pennsylvania
Nov, 2021	Speaker, Clemson University Distinguished Speaker series of the College of Science (virtual)
<u>2022</u>	
Jan, 2022	Speaker, Leading Strand Seminar Series, Canadian Gene Cure Advanced Therapies for Rare Disease (Can-GARD) National Grand Rounds lecture, Canada (Virtual)
Feb, 2022	University of Tennessee Health Sciences Center (virtual)
Mar, 2022	Department of Genetics, Washington University at Saint Louis, Missouri (Virtual)
June, 2022	Cold Spring Harbor Labs WiSE McClintock Lecturer (virtual)
June, 2022	Invited Speaker, American Diabetes Association, San Diego, CA
June, 2022	Simons Foundation Presidential Lecture, Simons Foundation, New York, NY
June, 2022	The Jackson Laboratory for Genomic Medicine, Farmington, CT
July, 2022	Harvard Medical School Genetics Seminar, Boston, MA (postponed)
July, 2022	Invited Lecturer, Jackson Labs Human and Mammalian Genomics Course, Bar Harbor, ME
Sept, 2022	2nd Big Data Conference, University of Pennsylvania, Philadelphia, PA
Oct, 2022	Keynote Lecture, 2nd annual Penn-Stanford Cardiovascular Research Symposium, Philadelphia, PA (virtual)
Oct, 2022	CARTA symposium on Future of Anthropogeny, UCSD (virtual)
Oct, 2022	Wilbur Cross Lecture, Department of Genetics, Yale University, New Haven, CT
Dec, 2022	Skomp Lecture, Department of Anthropology, Indiana University, Bloomington, IN
Dec, 2022	Keynote Speaker, African Society of Human Genetics, Rabat, Morocco
<u>2023</u>	
Feb, 2023	Social and Cultural Evolution Working Group, University of Pennsylvania, Philadelphia, PA
May, 2023	Biomedical Sciences, Maseno University, Kisumu, Kenya
May, 2023	Institute of Primate Research, Nairobi, Kenya
May, 2023	Invited Speaker, DNAirobi meeting, Nairobi, Kenya
May, 2023	Kilimanjaro Christian Medical College University, Moshi, Tanzania
July, 2023	Keystone Symposium, "New Frontiers in Reconstructing Human Evolution History", Hanover, Germany

July, 2023	Invited Lecturer, Jackson Labs Human and Mammalian Genomics Course, Bar Harbor, ME
Sept, 2023	Mount Sinai's Genetics and Genomics Sciences, New York, NY
Oct, 2023	Thomas Hunt Morgan Distinguished Lecturer at the Univ. of Kentucky
Oct, 2023	Invited Lecturer, 'Infectious Diseases Through an Evolutionary Lens', Organised by Disease Models & Mechanisms and funded by The Company of Biologists, London, UK
Oct, 2023	18 th International Symposium of the Institute for Translational Medicine and Therapeutics, University of Pennsylvania, Philadelphia, PA
Nov, 2023	Case Western Reserve/Cleveland Natural History Museum Symposium, Cincinnati, Ohio
Dec, 2023	Keynote Speaker, Duke University 3rd Annual Precision Genomics Collaboratory Retreat, Durham, North Carolina
Dec, 2023	Duke Molecular Physiology Institute, Duke University, Durham, North Carolina
<u>2024</u>	
April, 2024	Mendel Lecture, Augustinian Abbey in Brno, Czech Republic

Organizing Roles in Scientific Meetings:

Oct, 2000	Co-organized a workshop on "African Genetic Diversity" at the American Society of Human Genetics meeting, Philadelphia, PA
Oct, 2001	Co-organized and moderated a symposium on "Genetics of African Populations: Implications for studies of human origins and human disease," American Society of Human Genetics Meeting, San Diego, CA
Oct, 2001	Co-organized a workshop on "African Genetic Diversity" at the American Society of Human Genetics meeting, San Diego, CA
Oct, 2002	Co-organized a workshop on "African Genetic Diversity" at the American Society of Human Genetics meeting, Baltimore, MD
Oct, 2010	Co-organizer and Moderator, Session on next generation sequencing studies of human variation at "Beyond the Genome: The true gene count, human evolution and disease genomics" in celebration of the 10th anniversary of Genome Biology Journal, Harvard Medical School, Boston, MA
Nov, 2010	Chair, Genomics Session, American Society of Human Genetics Annual Meeting Washington, DC
Apr, 2012	Co-organizer and moderator, Workshop on "Co-evolution of genes and culture", Center for Academic Research and Training in Anthropology (CARTA), UCSD San Diego, CA
March 2016	Co-Organizer of Working Group to study the Impact of Ecotourism on Indigenous Culture, University of Pennsylvania
June, 2016	Organizer of Symposium on Evolution and Disease in Africa, International Society for Evolution, Medicine, and Public Health
Oct, 2017	Co-Organizer of Working Group to study The Global Impacts of Race on Biomedicine
May, 2018	Co-Organizer of Population Genomics Session, Biology of Genomes Meeting, Cold Spring Harbor, NY
Feb, 2020	Co-Organizer of CARTA workshop and symposium on Human Origins in Africa
Feb, 2021	Co-Organizer and moderator of AAAS peer reviewed session on "Polygenic Risk Scores: their use (and misuse) in research, health and society"

Feb, 2021	Organized a Symposium on Importance and Challenges of Increasing Ethnic Diversity in Human Genomics Research
March, 2021	Chair, Webinar on “Responsible Research on Ancient DNA” sponsored by the Professional Practice and Social Implications Committee, American Society of Human Genetics
October, 2021	Co-Organizer and moderator, Webinar on “Addressing human diversity in the context of polygenic inheritance”, American Society of Human Genetics
June, 2023	Co-Organizer, Keystone Symposium on Human Evolutionary Genomics

Grants:

Current:

Genetic and Molecular basis for variation in human skin pigmentation
National Institutes of Health, NIAMS R01AR076241-01A1, 05/2020 – 04/2025
(Sarah Tishkoff PI)

Integrative Genomic Analyses of Human Evolution and Adaptation in Africa,
National Institutes of Health, NIGMS 1 R35GM134957-01, 04/2020 – 01/2025
(Sarah Tishkoff PI).

Generating an immune cell atlas in ethnically diverse Africans.
Chan Zuckerberg Foundation, 07/2019 – 03/2024, (Sarah Tishkoff PI).

Genetic Risk factors for Adult-Onset Diabetes in Populations of African Ancestry,
Pathway to Diabetes Visionary Award, American Diabetes Association, 01/2019 – 12/2023
(Sarah Tishkoff PI).

Risk Factors for COVID-19 Incidence & Outcomes in Philadelphia’s Black Community,
Pennsylvania Department of Health, 06/2021- 05/2025 (Sarah Tishkoff PI).

African ancestry immune cell atlas: genetics, epigenetics and environment.
Chan Zuckerberg Foundation (Silicon Valley Community Foundation), 12/2021 – 11/2024
(Sarah Tishkoff co-PI).

Establishment of the Penn/Genentech Health Equity Postdoctoral Fellowship.
Genentech, 01/2020 – 12/2026 (Sarah Tishkoff PI).

Environmental and biological factors influencing the prevalence and severity of COVID-19 and vaccine response in the African Immigrant and African American communities in Philadelphia.
Pennsylvania Department of Health, 06/2021 – 5/2025 (Sarah Tishkoff PI).

Defining causal roles of genomic variants on gene regulatory networks with spatiotemporally-Resolved single-cell multiomics. National Human Genome Research Institute/NIH/DHHS,
09/2021 – 05/2026 (Sarah Tishkoff co-I).

Study of the genetic factors influencing variation in skin pigmentation in ethnically diverse Africans.
National Institute of Arthritis & Musculoskeletal & Skin Diseases/NIH/DHHS, 05/2020 – 04/2025
(Sarah Tishkoff co-PI).

Past:

Integrative Genomic of Body Size and Metabolism in Ethnically Diverse Africans, National Institutes of Health, 1R01GM113657-01, 01/15/15 – 01/14/19 (Sarah Tishkoff, PI).

Integrative Nutrigenomic and Metabolomic Analyses of Africans with Variable Diets, National Institutes of Health, 1R01DK104339-01, 02/01/15 – 12/31/19 (Sarah Tishkoff, PI).

Integrative Genomic Studies of Heart and Blood Related Traits in Africans, X01HL139409, 07/01/17 – 06/30/21 (Sarah Tishkoff, PI).

Functional genomic characterization of gene regulation at loci associated with skin pigmentation in African populations, SBDRC, NIAMS, Pilot Grant (01/01/18 – 12/31/19). (Sarah Tishkoff PI).

The Population Genetics of Divergence, National Institutes of Health, 2R01 GM078204-05, 01/01/15 – 12/31/16 (Jody Hey, PI)

Adaptation to diet and its impact on the gut microbiome and genomic variation in ethnically diverse Africans, National Science Foundation, BCS-1317217, 2013 – 2016 (Sarah Tishkoff, PI)

Statistical Methods for Next-generation sequence data, National Institutes of Health, 5R01GM097505-02, 2013 – 2016 (Hongzhe Lee, PI). Goal: development of novel statistical methods and computational tools for statistical and probabilistic modeling of large-scale next-generation sequence (NGS) data motivated by important biological questions and experiments.

Population Genomics of Geographically and Ethnically Diverse Africans, National Human Genome Research Institute, F32HG006648, 2011-2014 (Joseph Lachance, PI), (Role in grant: Mentor for Joseph Lachance, Goal: Population genomics analysis of ethnically diversity Africans).

African Odyssey: An Integrative Genomics Analysis of Complex Physiologic Traits, National Institutes of Health, 5-DP1-OD-006445, 2009-2014 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: To use evolutionary biology, genomics, and systems biology approaches to dissect the genetic architecture of complex physiological traits across ethnically and geographically diverse Africans.)

African Integrative Genomics, PGFI Special Initiatives Funding, 1/2010-7/2013 (Tishkoff, PI), (Role in grant: PI, Goal: RNA Sequencing of RNA obtained from white cells from ethnically diverse Africans)

Collaborative Research: Genetic Bases For The Evolution Of Human Diet, National Science Foundation, BCS-0827436, 10/2008-9/2013 (Sarah Anne Tishkoff, PI) (Role in grant: PI, Goal: To study the evolution of diet during human origins.)

African Diversity and the Genetics of Human Health, National Human Genome Research Institute, 5-F32-HG005292-03, 9/2009-10/2011 (Joe Jarvis, PI), (Role in grant: Mentor for Joseph Jarvis, Goal: postdoctoral training to study association mapping in structured populations)

Doctoral Dissertation Improvement: Patterns of Genetic Diversity And Signatures Of Natural

Selection At The Intercellular Adhesion Molecule-1 (ICAM-1) And CD36 Loci, Directorate For Social, Behavioral And Economic Sciences/NSF, 0925802, 9/2009-8/2010 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: To fund graduate student research of Felicia Gomez to study nucleotide diversity at malaria susceptibility loci)

Association Mapping in Structured Populations, Stanford University, 26275940-49517-A, 8/2007-7/2011 (Carlos Bustamante, PI: Sarah Anne Tishkoff, Co-Principal Investigator), Goal: To develop novel statistical methods for association mapping in structured populations. Note: Originally applied for this joint NSF/NIH RFA as a full PI (multiple PIs). NIH awarded Bustamante as the sole PI and Tishkoff as a co-PI.)

Genetic History of East Africa, National Science Foundation, BCS-0905858, 4/2007-3/2010 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: To reconstruct human evolutionary history of East African populations.)

Molecular, Statistical, And Bioinformatics Analysis of Plasmodium and Human Genome Co-Evolution, Human Frontier Science Program Organization, GRP0054/2006-C, 12/2006-11/2010 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: To study co-evolution of human and Plasmodium falciparum genomes.)

Variation At Malaria Resistance Genes In Africans, National Institutes Of Health, 5-R01-GM-076637-05, 6/2006-12/2010 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: To characterize nucleotide diversity at loci involved in malarial resistance in African populations.)

Characterizing a Genetic History of African Populations, NRSA Postdoctoral Fellowship, 1/2006-1/2008 (Floyd Reed, PI), (Role in grant: Mentor for Floyd Reed, Goal: Postdoctoral Fellowship to characterize genetic substructure in Africans using a genome-wide panel of markers.)

Genetic History of East African Populations, Leakey Foundation, 1/2006-1/2007 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: To conduct fieldwork in Kenya and Ethiopia in order to collect DNA samples obtained from whole blood.)

The Co-Evolution of Human Plasmodium Genomic Interactions, Keck Foundation, 1/2006-1/2007 (Awadalla, PI: Sarah Anne Tishkoff, Co-Investigator), (Role in grant: Co-PI, Goal: to study variation at malaria susceptibility loci.)

Genetic Structure of African and African American Populations, Center for Medical Genetics, Mammalian Genotyping Service, 1/2005-1/2006 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Two competitive awards to have the Marshfield panel of 800 microsatellite and 400 in/del markers genotyped in ~3000 samples. Goal: to determine genetic structure of African and African American populations and identify markers and populations useful for gene mapping studies.)

Nucleotide Variability and Signatures of Natural Selection at the Human Vasopressin Type 2 (AVPR2) and Oxytocin Receptor (OTR) Loci, NSF Doctoral Dissertation Improvement Grant, 1/2005-1/2006 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: To fund PhD work of Lisa Pfeiffer to resequence the vasopressin type 2 and oxytocin receptor genes in geographically diverse populations in order to identify functionally significant mutations.)

Genetic Structure of African and African American Populations, Center for Medical Genetics,

Mammalian Genotyping Service, 1/2004-1/2005 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Two competitive awards to have the Marshfield panel of 800 microsatellite and 200 in/del markers genotyped in ~3200 samples. Goal: to determine genetic structure of African and African American populations and identify markers and populations useful for gene mapping studies.)

Genetic History of Kenyan Populations, Leakey Foundation, 1/2003-1/2006 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: To provide funding for a Kenyan PhD student studying genetic diversity of Kenyan populations.)

The Co-Evolution of Human and Plasmodium Genomic Interactions, David And Lucile Packard Foundation, 2001-19049/2001-19049A, 11/2001-10/2006 (with extensions through 2009) (Sarah Anne Tishkoff, PI), (Role in grant: PI, Career Award)

Integrative Human Evolutionary Biology, NSF IGERT Training Grant, 1/2000-1/2007 (Sarah Tishkoff, PI: Greg Wray, Co-Investigator), (Role in grant: Co-PI, Goal: to provide interdisciplinary graduate training in human evolutionary biology.)

Genetic Variation Among Linguistically Diverse Tanzanian Populations: Implications for East African History and Modern Human Origins, NSF, BCS 9905396, 1/1999-1/2004 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: to obtain DNA samples and to characterize genetic diversity amongst linguistically diverse Tanzanian populations in order to reconstruct population histories and modern human origins.)

Genetic Diversity of Tanzanian Hunter-Gatherer Populations, Leakey Foundation, 1/1999-1/2001 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: to characterize genetic diversity and history of hunter-gatherer populations of Tanzania.)

Genetic History of Tanzanian Populations, Wenner Gren Foundation, 1/1999-1/2001 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: to characterize genetic diversity and evolutionary history of Tanzanian populations.)

Molecular Sequence Variation in G6PD and Its Role in Malarial Resistance, Burroughs/Wellcome Fund Career Award, 1/1998-1/2005 (Sarah Anne Tishkoff, PI), (Role in grant: PI, Goal: to characterize nucleotide diversity at the G6PD locus and determine the evolutionary forces resulting in high levels of G6PD deficiency mutations.)

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Research Publications, peer reviewed:

1. Ruano, G., Deinard, A. S., Tishkoff, S., Kidd, K. K.. Detection of DNA sequence variation via deliberate heteroduplex formation from genomic DNAs amplified en masse in "population tubes" PCR Methods and Applications 3(4): 225-31, 1994.
2. Risch, N., K.K. Kidd, and S.A. Tishkoff. Genetic data and the African origin of humans. Science 274: 1548-1549, Nov 1996.
3. Tishkoff, S.A., K.K. Kidd, and N. Risch. Interpretations of Multiregional Evolution. Science, letter to the editor 274, Nov 1996.
4. Michalatos-Beloin*, S., Tishkoff*, S. A., Bentley, K. L., Kidd, K. K., Ruano, G.. Molecular

haplotyping of genetic markers 10 kb apart by allele-specific long-range PCR. Nucleic Acids Research 24(23): 4841-3, 1996 Notes: *These authors contributed equally.

5. Tishkoff, S. A., Ruano, G., Kidd, J. R., Kidd, K. K.. Distribution and frequency of a polymorphic Alu insertion at the plasminogen activator locus in humans. Human Genetics 97(6): 759-64, 1996.
6. Tishkoff, S.A., E. Dietzsch, W. Speed, A.J. Pakstis, K. Cheung, J.R. Kidd, B. Bonn -Tamir, A.S. Santachiara-Benerecetti, P. Moral, E. Watson, M. Krings, S. P  bo, N. Risch, T. Jenkins, and K.K. Kidd. Global patterns of linkage disequilibrium at the CD4 locus and modern human origins. Science 271(5254): 1380-7, 1996.
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39. Bryc, K., Nelson, M., Oksenberg, J., Hauser, S., Bustamante, C., Tishkoff, S. Genome-wide patterns of population structure and admixture in Africans and African Americans. American Society of Human Genetics Meeting, Philadelphia, PA 2008 Notes: Oral presentation.
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61. Ko, W.-Y., Kaercher, K., Tishkoff, S.A. Adaptive evolution of human glycophorin loci in malaria endemic African populations. 60th Annual American Society of Human Genetics (ASHG) Meeting, Washington, D.C. November 2010 Notes: Oral presentation.
62. Ko, W.-Y., Gomez, F., Tishkoff, S.A. An evolutionary and population genetic approach to malaria susceptibility in Africa. Invited Symposium: Pathogens and Human and Non-human Primate Evolution, American Association of Physical Anthropology Meeting, Albuquerque, New Mexico. 2010 Notes: Oral presentation.
63. Ranciaro, A., Tishkoff, S.A. Evolutionary history of lactose intolerance in Africa. NIH Workshop on Health Implications of Lactose Intolerance, Bethesda, M.D. 2010 Notes: Oral presentation.
64. Campbell, M.C., Ranciaro, A., Froment, A., Zinshteyn, D., Bodo, J.-M., Drayna, D., Breslin, P., Tishkoff, S.A. Ongoing Evolution of Human Bitter Taste Perception Associated with the TAS2R38 Locus in Africa. African Society of Human Genetics, Young Researcher's Forum, Cape Town, South Africa March 2011 Notes: Oral presentation.
65. Hirbo, J.B., Ranciaro, A., Omar, S.A., Ibrahim, M., Godfrey, L., Nyambo, T.B., Tishkoff, S.A.

Genetic History of human populations of East Africa. African Society of Human Genetics, Cape Town, South Africa. March 2011 Notes: Poster.

66. Ranciaro, A., Campbell, M.C., Zinshteyn, D., Hirbo, J., Omar, S., Bodo, J.-M., Nyambo, T., Thompson, S.R., Issa, D.M., Belay, G., Drayna, D., Breslin, P., Tishkoff, S.A. Genetic basis of the receptor of taste perception TAS2R16 in African populations. African Society of Human Genetics Meeting, Cape Town, South Africa March 2011 Notes: Poster.
67. Ko, W.-Y., Gomez, F., Tishkoff, S.A. Spatially heterogeneous selection on human ApoL1 variants among diverse African populations in trypanosomiasis endemic areas. Society for Molecular Biology and Evolutions (SMBE) Annual Meeting, Kyoto, Japan. July 2011 Notes: Oral presentation.
68. Ko, W.-Y., Tishkoff, S.A. Genome-wide detection of local adaptation in diverse African populations. Young Researchers Conference on Evolutionary Genomics, Tokyo, Japan August 2011 Notes: Oral presentation.
69. Jarvis, J. Lachance, J., Soi, S., Scheinfeldt, L., Lambert, C., Omberg, L., Ferwerda, B., Ranciaro, A., Hirbo, J., Beggs, W., Froment, A., Bodo, J., Ibrahim, M., Lema, G., Nyambo, T., Omar, S., Wambebe, C., Hoffman, G., Mezey, J., Tishkoff, S. African Integrative Genomics: Implications for Human Evolution and Disease. NIH Director's Pioneer Awards Meeting, Bethesda, MD, Sept, 2011. Note: Poster.
70. Elbers, C.C., Thompson, S.R., Ranciaro, A., Meskel, D.W., Belay, G., Tishkoff, S.A. Amylase gene copy numbers and salivary amylase activity in ethnically diverse populations from Ethiopia. International Congress of Human Genetics/American Society of Human Genetics meeting, Montreal, Canada. October 2011 Notes: Poster.
71. Meltz, K., Steinberg, F., Antonacci, J. M. Kidd, C. D. Campbell, P. Sudmant, L. Vives, M. Malig, L. Scheinfeldt, W. Beggs, M. P. Donnelly, K. K. Kidd, S. A. Tishkoff, E. E. Eichler. African genome sequencing reveals diversity and origin of the "European" 17q21.31 inversion polymorphism. International Congress of Human Genetics/American Society of Human Genetics meeting, Montreal, Canada. October 2011 Notes: Poster.
72. Soi, S., L. Scheinfeldt, C. Lambert, J. Hirbo, A. Ranciaro, S. Thompson, J. M. Bodo, A. Froment, M. Ibrahim, A. Juma, T. Nyambo, S. Omar, C. Wambebe, D. Meskel, G. Belay, S. A. Tishkoff. Demographic histories of African hunting-gathering populations inferred from genome-wide SNP variation. International Congress of Human Genetics/American Society of Human Genetics meeting, Montreal, Canada. October 2011 Notes: Oral presentation.
73. Scheinfeldt L.B., Soi S., Froment A., Bodo J., Wambebe C., Tishkoff S.A. An interdisciplinary genomic approach to the study of adaptation and population histories in Sub-Saharan Africa. American Association of Physical Anthropology, Portland, Oregon. April 2012. Notes: Oral presentation.
74. Lachance, J., B. Vernot, C. Elbers, B. Ferwerda, A. Froment, J.-M. Bodo, G. Lema, T. Nyambo, T. Rebbeck, K. Zhang, J. Akey, S. Tishkoff. High-coverage population genomics of diverse African hunter-gatherers. Society for Molecular Biology and Evolution, Dublin, Ireland. June 2012. Notes: Poster.

75. Lachance, J., B. Vernot, C. Elbers, B. Ferwerda, A. Froment, J. Bodo, G. Lema, W. Fu, T. Nyambo, T. Rebbeck, K. Zhang, J. Akey, S. Tishkoff. Evolutionary history and adaptation inferred from whole-genome sequences of diverse African hunter-gatherers. Joint Congress on Evolutionary Biology, Ottawa, Canada. July 2012. Notes: Oral presentation.
76. Lachance J, Jarvis J, Soi S, Scheinfeldt L, Vernot B, Ranciaro, A, Hirbo J, Rawlings A, Beggs W, Froment, A, Bodo, J, Ibrahim. M, Lema G, Nyambo T, Omar S, Wambebe C, Akey J, Tishkoff S. Integrative Genomics Analyses of African Populations. NIH Director's Pioneer Award Meeting, Bethesda, MD, Sept 2012. Notes: poster.
77. Scheinfeldt L, S. Soi, C. Lambert, D. Hu, A. Coulibaly, H. Hutton, C. Elbers, W-Y. Ko, W. Beggs, A. Ranciaro, S. Thompson, J. Hirbo, J.M. Bodo, O. Doumbo, M. Ibrahim, A. Froment, G. Lema, T. Nyambo, S. Omar, C. Wambebe, D. Meskel, G. Belay, S. Tishkoff. Genome-wide signatures of natural selection in diverse African populations. American Society of Human Genetics. San Francisco, CA. November 2012. Notes: Poster.
78. Soi, S. L. Scheinfeldt, C. Lambert, J. Hirbo, A. Ranciaro, S. Thompson, J. Marie Bodo, M. Ibrahim, G. Lema, T. Nyambo, S. Omar, C. Wambebe, D. Meskel, G. Belay, A. Froment, S. A. Tishkoff. Genome-wide SNP variation in sub-Saharan Africa is influenced by cultural and ethno-linguistic affiliation. American Society of Human Genetics, San Francisco, CA. November 2012. Notes: Poster.
79. Rawlings, R., S. Tishkoff. Novel human variation in miRNAs associated with disease, biomarkers and drug metabolism. The RNA Society Meeting, Ann Arbor, MI May-June 2012 Notes: Poster.
80. Ferreira, Z., S. Seixas, A. Andres, W. Kretzschmar, J. Mullikin, W. Swanson, M. K. Gonder, S. Tishkoff, A. Stone, A. G. Clark, E. Green, B. Hurle. Reproduction and immunity driven natural selection in the hominid WFDC locus. American Society of Human Genetics, San Francisco, CA. November 2012 Notes: Poster.
81. Lachance, J., B. Vernot, C. Elbers, B. Ferwerda, A. Froment, J. Bodo, G. Lema, W. Fu, T. Nyambo, T. Rebbeck, K. Zhang, J. Akey, S. Tishkoff. Evolutionary history and adaptation inferred from whole-genome sequences of diverse African hunter-gatherers. American Society of Human Genetics, San Francisco, CA. November 2012 Notes: Oral presentation.
82. Rawlings-Goss, R. Afi., S. Tishkoff. Novel Human Variation in MicroRNAs associated with Disease, Biomarkers, and Drug Metabolism. American Society of Human Genetics, San Francisco, CA. November 2012 Notes: Poster.
83. P. H. Hsieh, K. R. Veeramah, J. Lachance, S. A. Tishkoff, J. D. Wall, M. F. Hammer, R. N. Gutenkunst. Inference of Natural Selection and Demographic History for African Pygmy Hunter-Gatherers. Society for Molecular Biology and Evolution, Chicago July 2013 Notes: Poster.
84. J. Lachance, S. Tishkoff. The evolutionary impact of GC-biased gene conversion on human populations. American Society of Human Genetics, Boston October 2013 Notes: Poster.

85. P. H. Hsieh, K. R. Veeramah, J. Lachance, S. A. Tishkoff, J. D. Wall, M. F. Hammer, R. N. Gutenkunst. Inference of Natural Selection and Demographic History for African Pygmy Hunter-Gatherers. American Society of Human Genetics, Boston October 2013 Notes: Poster.
86. S. Soi, L. B. Scheinfeldt, D. Diep, W. Beggs, N. Plongthongkum, S. A. Tishkoff*, K. Zhang*. Genetic and environmental variables contribute to genome-wide methylation variation in geographically diverse Africans. American Society of Human Genetics, Boston October 2013 Notes: Poster.*These authors contributed equally
87. R. A. Rawlings-Goss, S. Tishkoff. Global Patterns of miRNA Variation and Population-specific Differentiation Based on Whole Genome Sequence Data. American Society of Human Genetics, Boston, October, 2013. Notes: Poster
88. Lachance J. and S. A. Tishkoff. Scans of selection using whole genome sequences of diverse African hunter-gatherers reveal associations between pituitary loci and Pygmy stature. Society for Molecular Biology and Evolution, Chicago 2013. Notes: Oral presentation.
89. Lachance J. and S. A. Tishkoff. Scans of selection using whole genome sequences of diverse African hunter-gatherers reveal associations between pituitary loci and Pygmy stature, Society for the Study of Evolution, Snowbird, Utah 2013 Notes: Oral presentation.
90. Soi S, Hutton, H. Lachance J, Jarvis J, Scheinfeldt L, Vernot B, Ranciaro, A, Hirbo J, Rawlings A, Beggs W, Froment A, Bodo J, Ibrahim M, Lema G, Nyambo T, Omar S, Wambebe C, Akey J, K. Zhang, Tishkoff S. Integrative Genomics Analyses of African Populations. NIH Common Fund High-Risk High-Reward Research Symposium, Nov 18 – 20, 2013. Notes: Poster
91. Lachance, J and S. Tishkoff. Biased gene conversion skews allele frequencies in human populations, increasing the disease burden of recessive alleles, Society for Molecular Biology and Evolution, San Juan, Puerto Rico, June 2014. Notes: Poster
92. Lachance, J and S. Tishkoff. Biased gene conversion skews allele frequencies in human populations, increasing the disease burden of recessive alleles. Society for the Study of Evolution, Raleigh, NC, June 2014. Notes: Poster
93. Alessia Ranciaro, Michael C. Campbell, Jibril B. Hirbo, Wen-Ya Ko, Alain Froment, Paolo Anagnostou, Maritha J. Kotze, Muntaser Ibrahim, Thomas Nyambo, Sabah A. Omar, Sarah A. Tishkoff. Society for Molecular Biology and Evolution, San Juan, Puerto Rico, June 2014. Notes: Poster.
94. Matthew E.B. Hansen, J. Lachance, S.A. Tishkoff. Anthropometric trait variation among diverse African populations: deviations from drift. Society for Molecular Biology and Evolution, San Juan, Puerto Rico, June 2014. Notes: Poster.
95. Michael C. Campbell, Alessia Ranciaro, Daniel Zinshteyn, Renata Rawlings-Goss, Jibril Hirbo, Simon Thompson, Dawit Woldemeskel, Alain Froment, Joseph B. Rucker, Sabah Omar, Jean-Marie Bodo, Thomas Nyambo, G. Belay, Dennis Drayna, Paul A.S. Breslin, Sarah A. Tishkoff. Origin and Adaptive Evolution of Allelic Variation at TAS2R16 Associated with Salicin

Bitter Taste Sensitivity in Africa. Society for Molecular Biology and Evolution, San Juan, Puerto Rico, June 2014. Notes: Oral presentation.

96. P. Hsieh, J. D. Wall, J. Lachance, S. A. Tishkoff, R. N. Gutenkunst, M. F. Hammer. Statistical inference of archaic introgression and natural selection in Central African Pygmies. American Society of Human Genetics Meeting, San Diego, CA, October, 2014. Notes: Oral presentation.
97. M. E. B. Hansen, M. Rubel, A. Bailey, K. Bittinger, A. Laughlin, A. Ranciaro, W. Beggs, S. Thompson, F. D. Bushman, S. A. Tishkoff. Characterizing gut microbiota variation across diverse rural African populations. American Society of Human Genetics Meeting, San Diego, CA, October, 2014. Notes: Poster.
98. K. E. Johnson, C. C. Elbers, S. R. Thompson, A. Ranciaro, D. W. Meskel, A. L. Mandel, G. Belay, S. A. Tishkoff. Correlations between *AMY1* copy number, diet and BMI in ethnically diverse African populations. American Society of Human Genetics Meeting, San Diego, CA, October, 2014. Notes: Poster.
99. Rubel MA, Hansen MEB, Bailey A, Bittinger K, Laughlin A, Beggs W, Ranciaro A, Thompson SR, Bushman FD, Tishkoff SA. Role of Environment and Diet on Microbiome Composition in Diverse Rural Africans. American Society for Human Genetics, Baltimore, MD. 2015. Notes: Poster
100. Rubel MA, Hansen MEB, Bailey A, Bittinger K, Laughlin A, Beggs W, Ranciaro A, Thompson SR, Bushman FD, Tishkoff SA. Dietary and Environmental Factors Shaping African Gut Microbiomes. Society for Molecular Biology and Evolution, Gold Coast, Australia, 2016. Notes: Oral Presentation
101. Rubel MA, Hansen MEB, Bailey A, Bittinger K, Laughlin A, Beggs W, Ranciaro A, Thompson SR, Bushman FD, Tishkoff SA. Diet, Environment, and Parasites: Factors Shaping Rural African Gut Microbiomes. International Society for Evolution, Medicine, and Public Health, Durham, NC. 2016. Notes: Oral presentation
102. Rubel MA, Hansen MEB, Bailey A, Bittinger K, Laughlin A, Beggs W, Ranciaro A, Thompson SR, Bushman FD, Tishkoff SA. Environmental and Dietary Factors Shaping African Gut Microbiomes. American Association of Physical Anthropologists, Atlanta, GA. 2016. Notes: Poster
103. DE. Kelly, SH. Fan, MH. Beltrame, MEB. Hansen, S. Mallick, Thomas Nyambo, Sabah Omar, Dawit Meskel, Gurja Belay, Alain Froment, N. Patterson, D. Reich, SA. Tishkoff. Characterization of local adaptation in Africa from whole genome sequence data. American Society of Human Genetics Meeting, Vancouver, BC. 2016. Notes: Poster
104. SH. Fan, DE. Kelly, MH. Beltrame, MEB. Hansen, S. Mallick, Thomas Nyambo, Sabah Omar, Dawit Meskel, Gurja Belay, Alain Froment, N. Patterson, D. Reich, SA. Tishkoff. Whole-genome sequence analyses provide new insights into the demographic history and local adaptation of African populations. American Society of Human Genetics Meeting, Vancouver, BC. 2016. Notes: Poster

105. Matthew E.B. Hansen, Joseph Lachance, Sameer Soi, Laura Scheinfeldt, Alessia Ranciaro, Simon Thompson, Jibril Hirbo, and Sarah A. Tishkoff. Anthropometric and cardiovascular trait variation among sub-Saharan African populations: the impact of subsistence practice and genetic ancestry. American Society of Human Genetics, Baltimore, MD 2015. Notes: Poster presentation
106. Matthew E.B. Hansen, Joseph Lachance, Sameer Soi, Laura Scheinfeldt, Alessia Ranciaro, Simon Thompson, Jibril Hirbo, and Sarah A. Tishkoff. Anthropometric and cardiovascular trait variation among sub-Saharan African populations: the role of gender, subsistence, and genetic ancestry. Society for Molecular Biology and Evolution, Vienna, Austria 2015. Notes: Poster, won best post-doc poster award.
107. Matthew E.B. Hansen, Alessia Ranciaro, Simon Thompson, William Begs, Jibril Hirbo, Stephan J. Chanock, Meredith Yeager, and Sarah A. Tishkoff. Physiological trait and biomarker variation among sub-Saharan African populations: the impact of gender, subsistence, and genetic ancestry. Center of Excellence in Environmental Toxicology Symposium, Philadelphia, PA, 2016. Notes: Poster
108. Matthew E.B. Hansen, Alessia Ranciaro, Simon Thompson, William Begs, Jibril Hirbo, Stephan J. Chanock, Meredith Yeager, and Sarah A. Tishkoff. The impact of ancestry and subsistence practice on cardiovascular and anthropometric traits in sub-Saharan Africans. International Society for Evolution, Medicine, and Public Health, Durham, NC. 2016. Notes: Oral presentation
109. M. Hansen, A. Ranciaro, S. Fan, Y. Lo, S. Mpoloka, G. Mokone, M. Bolaane, T. Nyambo, S. Omar, D. Meskel, G. Belay, S. Thompson, J. Hirbo, W. Beggs, M. Yeager, S. Chanock, S. Tishkoff. Genome-wide association study of anthropometric, cardiovascular, and lipid biomarkers in an ethnically diverse cohort of sub-Saharan Africans. American Society of Human Genetics, Orlando, FL. 2017. Poster presentation
110. D. Kelly, M. Holsbach Beltrame, N.G. Crawford, M.E.B. Hansen, S. Fan, S.L. Bowman, E. Jewett, A. Ranciaro, S. Thompson, Y. Lo, S.P. Pfeifer, J.D. Jensen, M. Campbell, W. Biggs, S.W. Mpoloka, G. Mokone, T. Nyambo, D.W. Meskel, G. Belay, C. Abnet, E. Oceana, Y.S. Song, E. Eskin, K.M. Brown, M.S. Marks, S.K. Loftus, W.J. Pavan, M. Yeager, S. Chanock, S. Tishkoff. Dissecting regulatory mechanisms altering skin pigmentation in Africans using genetic and functional genomic data. American Society of Human Genetics, Orlando, FL. 2017. Poster presentation
111. M.A. Rubel, M.E.B. Hansen, A.G. Bailey, J.R. Dave, A. Ranciaro, S.R. Thompson, M. Campbell, W.R. Beggs, S.W. Mpoloka, G. Mokone, M.M.M. Bolaane, T. Nyambo, F.D. Bushman, S.A. Tishkoff. Population structure of the human gut microbiome across ethnically diverse sub-Saharan Africans. American Society of Human Genetics, Orlando, FL. 2017. Poster presentation
112. N. Crawford, D. Kelly, M. Hansen, M. Holsbach Beltrame, S. Fan, S. Bowman, E. Jewett, A. Ranciaro, S. Thompson, S. Pfeifer, J. Jensen, S. Wata Mpoloka, G. Mokone, T. Nyambo, D. Wolde Meskel, G. Belay, H. Rothschild, Y. Zhou, M. Kovacs, M. Xu, E. Oceana, Y. Song, E. Eskin, K. Brown, M. Marks, S. Loftus, W. Pavan, M. Yeager, S. Chanock, S. Tishkoff Novel

- loci associated with skin pigmentation identified in African populations, American Society of Human Genetics, Orlando, FL. 2017. Plenary Presentation (one of 12)
113. M. A. Rubel, M.E.B Hansen, A. G. Bailey, A. Ranciaro, S. R. Thompson, M. Campbell, F. D. Bushman & S. A. Tishkoff. The Role of Diet, Ancestry, and Geography on the Gut Microbiomes of Ethnically Diverse Africans, Keystone Symposia on Molecular and Cellular Biology: Microbiome in Health and Disease, Denver, CO 2018. Note: poster presentation
 114. Alessia Ranciaro, Michael C. Campbell, Elizabeth Eyerman, Simon Thompson, William Beggs, Sununguko Wata Mpoloka, Gaonyadiwe George Mokone, Thomas Nyambo, Dawit Wolde Meskel, Gurja Belay, Meredith Yeager, Stephen Chanock, Sarah A. Tishkoff. New Insights into the Genetic Basis and Evolutionary History of Lactase Persistence in Africa. Society of Molecular Biology and Evolution, Yokohama, Japan, June, 2018, Note: oral presentation.
 115. Eric Mbunwe, Jamie Duke, Alessia Alessia, Simon Thompson, William Beggs, Sununguko Wata Mpoloka, Gaonyadiwe George Mokone, Thomas Nyambo, Dawit Wolde Meskel, Gurja Belay, Martin Maiers, Dimitri Monos, Sarah Tishkoff. Characterization of HLA alleles from targeted and whole genome sequences of ethnically diverse African populations. Biology of Genomes meeting, Cold Spring Harbor, NY, May, 2018. Note: poster presentation.
 116. Matthew Hansen, Meagan A. Rubel, Aubrey G. Bailey, Alessia Ranciaro, Simon R. Thompson, Michael C. Campbell, William Beggs, Jaanki R. Dave, Elizabeth Eyermann, George Mokone, Sununguko W. Mpoloka, Thomas Nyambo, Christian Abnet, Stephen J. Chanock, Frederic D. Bushman, Sarah A. Tishkoff. Population structure of the human gut microbiome across ethnically diverse sub-Saharan Africans. Biology of Genomes meeting, Cold Spring Harbor, NY, May, 2018. Note: oral presentation.
 117. Shaohua Fan, Derek E. Kelly, Marcia H. Beltrame, Matt Hansen, Swapan Mallick, Thomas Nyambo, Dawit Wolde Meskel, Gurja Belay, Nick Patterson, David Reich, Sarah A. Tishkoff. Ancient African substructure inferred from whole genome sequence data. Biology of Genomes meeting, Cold Spring Harbor, NY, May, 2018. Note: poster presentation.
 118. Derek E Kelly, Nicholas G Crawford, Yue Ren, Renata A Rawlings-Goss, Gregory R Grant, Meredith Yeager, Stephen Chanock, Alessia Ranciaro, Simon Thompson, Jibril B Hirbo, William Beggs, Thomas B Nyambo, Sabah A Omar, Dawit O Meskel, Gurja Belay, Christopher D Brown, Hongzhe Li, Sarah A Tishkoff. Identifying the genetic and environmental determinants of gene expression variation in Africans. Biology of Genomes meeting, Cold Spring Harbor, NY, May, 2018. Note: poster presentation
 119. Nicholas G. Crawford, Derek Kelly, Matthew E. Hansen, Marcia Holsbach Beltrame, Shaohua Fan, Shanna L. Bowman, Ethan Jewett, Alessia Ranciaro, Michael Campbell, Yancy Lo, Yun S. Song, Kevin M. Brown, Michael S. Marks, Stacie K. Loftus, William J. Pavan, Meredith Yeager, Stephen Chanock, Sarah A. Tishkoff. Novel loci associated with skin pigmentation identified in African populations. Biology of Genomes Meeting, Cold Spring Harbor, NY, May, 2018. Note: oral presentation.
 120. A. Ranciaro, M.C. Campbell, E. Eyerman, S. Thompson, W. Beggs, S.W. Mpoloka, G.G. Mokone, T. Nyambo, D.W. Meskel, G. Belay, M. Meredith Yeager, S. Channock, S.A. Tishkoff. New insights into the genetic basis and evolutionary history of lactase persistence in

Africa. American Society of Human Genetics meeting, San Diego, CA, October, 2018. Note: poster presentation.

121. C.C. Jones, P.S. Ramos, S.J. Chanock, S.A. Tishkoff, S.M. Williams, M.C. Aldrich. Mapping African ancestry among African Americans. American Society of Human Genetics meeting, San Diego, CA, October, 2018. Note: poster presentation.
122. D.E. Kelly, R. Ma, N.G. Crawford, Y. Ren, R.A. Rawlings-Goss, G.R. Grant, M. Yeager, S. Chanock, A. Ranciaro, S. Thompson, J.B. Hirbo, W. Beggs, T.B. Nyambo, S.A. Omar, D.O. Meskel, G. Belay, C.D. Brown, H. Li, S.A. Tishkoff. Identifying the genetic and environmental determinants of gene expression variation in Africans. American Society of Human Genetics meeting, San Diego, CA, October, 2018. Note: poster presentation.
123. Michael A. McQuillan, Steven C. Hunt, Matthew E. B. Hansen, Simon Verhulst, Tsung-Po Lai, Gaonyadiwe G. Mokone, Sununguko Wata Mpoloka, Dawit Woldemeskel, Gurja Belay, Thomas Nyambo, Christian C. Abnet, Meredith Yeager, Stephen J. Chanock, Alessia Ranciaro, Eric Mbunwe, Shaohua Fan, Meagan Rubel, William Beggs, Scott M. Williams, Abraham Aviv, and Sarah A. Tishkoff. Environmental and Genetic Drivers of Telomere Length Variation in Ethnically Diverse Africans. American Society of Human Genetics meeting, San Diego, CA, October, 2018. Note: poster presentation.
124. Shaohua Fan, Matt EB. Hansen, Marcia H. Beltrame, Alessia Ranciaro, Eric Mbunwe, Jeffrey Chan, Alfred K. Njamnshi, Charles Fokunang, Sununguko Wata Mpoloka, Gaonyadiwe George Mokone, Thomas Nyambo, Dawit Wolde Meskel, Yun S. Song, Sarah A. Tishkoff. Whole genome sequencing reveals ancient African substructure and local adaptation. American Society of Human Genetics meeting, San Diego, CA, October, 2018. Note: oral presentation.
125. Yuanqing Feng, Fumitaka Inoue, Shaohua Fan, Chao Zhang, Alessia Ranciaro, Derek Kelly, Matthew Hansen, Nadav Ahituv, Sarah Tishkoff. Functional testing of pigmentation-associated variants in African populations. Biology of Genome. Virtual, May, 2020. Note: Poster.
126. Daniel N Harris, Shaohua Fan, Matthew EB Hansen, Alessia Ranciaro, Simon Thompson, William Beggs, Thomas Nyambo, Sununguko Wata Mpoloka, Gaonyadiwe George Mokone, Dawit Woldemeskel, Gurja Belay, Charles Fokunang, Alfred K. Njamnshi, Joshua M Akey, Sarah A Tishkoff. Analysis of Neanderthal Homologous Regions in Diverse African Populations Reveals Bi-Directional Admixture. The Biology of Genomes, Virtual, May, 2020. Note: oral presentation.
127. Michael A. McQuillan, Matthew E. B. Hansen, Alessia Ranciaro, Shaohua Fan, William Beggs, Gurja Belay, Dawit Woldemeskel, and Sarah A. Tishkoff. Genomic Patterns of Natural Selection and Introgression at Alcohol Dehydrogenase Genes in Ethnically Diverse Africans. Annual Meeting of the Society for Molecular Biology and Evolution (SMBE). Note: accepted for Oral presentation, meeting cancelled due to COVID-19. 2020.
128. Matthew EB Hansen, Michelle Kim, Shaohua Fan, Jake Haut, Alessia Ranciaro, Sunungouko Wata Mpoloka, Gaonyadiwe George Mokone, Thomas Nyambo, Dawit Wolde Meskel, Gurja Belay, Joseph Lachance and Sarah A Tishkoff. Population structure of complex traits in an

African cohort spanning 100,000 years of human history. Annual Meeting of the Society for Molecular Biology and Evolution (SMBE). Note: accepted for oral presentation, meeting cancelled due to COVID-19, 2020.

129. Y. Feng, Y. Zhu, N. Mitra, D. Margolis, S. A. Tishkoff. Population genetic analysis of the human *filaggrin (FLG)* gene associated with atopic dermatitis in global populations, American Society of Human Genetics Meeting, October, 2020. Note: poster presentation.
130. Daniel N. Harris, Alexander Platt, Matthew E. B. Hansen, Shaohua Fan, Alessia Ranciaro, Simon Thompson, William Beggs, Thomas Nyambo, Sununguko Wata Mpoloka, Gaonyadiwe George Mokone, Dawit Woldemeskel, Gurja Belay, Charles Fokunang, Alfred K. Njamnshi, Joshua M. Akey, and Sarah A. Tishkoff. Neanderthal Homologous Regions in African Populations Arose Predominantly through ancient African to Neanderthal admixture. American Society of Human Genetics Meeting, October, 2020. Note: oral presentation.
131. Rong Ma, Matthew Hansen, Alessia Ranciaro, Simon Thompson, William Beggs, Sunungouko Wata Mpoloka, Gaonyadiwe George Mokone, Dawit Wolde Meskel, Gurja Belay, Thomas Nyambo, George Michailidis, Hongzhe Lee, Charles Burant*, Sarah Tishkoff*. Impact of subsistence and genetics on lipid profiles in ethnically diverse Africans, American Diabetes Association, June 2021 Note: poster.
132. Ju D, Hansen M, Harris D, Hirbo J, Mbunwe E, Ranciaro A, Thompson S, Woldemeskel D, Zhang C, Beggs W, Belay G, Fokunang C, Mokone GG, Mpoloka SW, Njamnshi AK, Nyambo T, Omar SA, Sirugo G, TOPMed Consortium, Mathieson I, Tishkoff S. Investigating the transferability of European height associated loci in Africans. The American Society of Human Genetics 2021 Virtual Meeting. October, 2021. Note: Poster.
133. Michael A. McQuillan, Alessia Ranciaro, Matthew E. B. Hansen, Shaohua Fan, William Beggs, Gurja Belay, Dawit Woldemeskel, and Sarah A. Tishkoff. Genomic Patterns of Natural Selection and Introgression at the Alcohol Dehydrogenase Gene Region are Associated with Agriculture in Ethnically Diverse Africans. American Society of Human Genetics Meeting, October 2021. Note: poster presentation.
134. Daniel N. Harris, Michael McQuillan, Onur Ozer, Martin Maiers, Jamie L Duke, Deborah Ferriola, Melina Ntinou, Ioanna Pagkrati, George Damianos, Tim Mosbrugger, Matthew E. B. Hansen, Shaohua Fan, Alessia Ranciaro, Simon Thompson, William Beggs, Thomas Nyambo, Sununguko Wata Mpoloka, Gaonyadiwe George Mokone, Dawit Woldemeskel, Gurja Belay, Charles Fokunang, Alfred K. Njamnshi, Tobias Lenz, Dimitrios Monos, Sarah A. Tishkoff. Characterizing the evolutionary history of HLA genes in sub-Saharan African populations, American Society of Human Genetics Meeting, October, 2021. Note: poster presentation
135. Hansen M, Lachance J, Ranciaro A, Kim M, Raj S, Fan S, Beggs WR, Nyambo T, Mpoloka SW, Mokone G, Woldemeskel D, Belay G, Chanock S, Yeager M, and Tishkoff SA. GWAS of complex traits in a multi-population African cohort. American Society of Human Genetics Meeting, October 2021. Note: oral presentation.
136. Daniel Hui, Daniel Harris, Michael McQuillan, Matthew Hansen, Alessia Ranciaro, William Beggs, Sunungouko Wata Mpoloka, Gaonyadiwe George Mokone, Dawit Wolde Meskel, Gurja Belay, Sabah Omar, Thomas Nyambo, Charles Folkunang, Alfred Njamnshi, Stephen

Chanock, Meredith Yeager, Sarah Tishkoff. Genetic and lifestyle associations with cardiometabolic traits and diabetes risk factors in ethnically diverse Africans, American Diabetes Association Meeting, New Orleans, LA, June, 2022. Note: poster presentation.

137. Dan Ju, Michael McQuillan, Matthew Hansen, Daniel Harris, Chao Zhang, Alessia Ranciaro, William Beggs, Stephen Chanock, Charles Fokunang, Alfred K. Njamnshi, Meredith Yeager, Iain Mathieson, Sarah Tishkoff. Investigating selection and the genetics of height in Central African Rainforest Hunter-gatherers, American Society of Human Genetics Meeting, Los Angeles, CA, October, 2022. Note: poster presentation.
138. Ning Xie, Yuanqing Feng, Shaohua Fan, Thomas Nyambo, Sununguko Wata Mpoloka, Gaonyadiwe George Mokone, Alfred Njamnshe, Charles Fokunang, Dawit Wolde Meskel, Gurja Belay, Sarah A. Tishkoff. Identifying functional variants related to heart development in African populations. American Society of Human Genetics Meeting, Los Angeles, CA, October, 2022. Note. Poster presentation.
139. Yuanqing Feng, Fumitaka Inoue, Shaohua Fan, Ning Xie, Chao Zhang, Fang Zhang, Derek Kelly, Matthew Hansen, Elena Oancea, Michael S. Marks, Thomas Nyambo, Sununguko Wata Mpoloka, Gaonyadiwe George Mokone, Alfred Njamnshe, Charles Fokunang, Gurja Belay, Nadav Ahituv, Sarah Tishkoff. Integrative functional genomic analyses identify novel genetic variants influencing skin pigmentation in Africans. American Society of Human Genetics Meeting, Los Angeles, CA, October, 2022. Note. oral presentation.
140. Ning Xie, Yuanqing Feng, Derek E Kelly, Fang Zhang, Yang Sun, Chun Jimmie Ye, Eline T Luning Prak, Sarah A Tishkoff. Investigating the peripheral immune response in ethnically diverse Africans by single-cell RNA-seq. Chan Zuckerberg Initiative, Single Cell Sequencing meeting, San Jose, CA, 2022. Note. Poster presentation.

Alternative Media:

Media/Public Outreach and Education:

I have assisted with public outreach and education (particularly at the high school and undergraduate college level) by the development of several websites and videos describing my research including:

- University of Maryland
(<http://www.inform.umd.edu/CampusInfo/Departments/InstAdv/newsdesk/dna/project.html>). This was advertised in the Chronicle of Higher Education and has been made available as a teaching tool for high school and undergraduate students.
- Developed a Slide show with Peter Nichols at the University of Pennsylvania
<http://www.sas.upenn.edu/home/SASFrontiers/tishkoff.html>.
- Featured in NIGMS “computing Life” website in which students could ask me questions about my research via the web.
<http://publications.nigms.nih.gov/computinglife/answers.htm>
- Videotaped by the University of Pennsylvania Museum of Anthropology and Archeology for the exhibit on Human Origins (2008-present)
- Videotaped by the American Museum of Natural History in New York for their exhibit on Human Origins (2008-present)
- Videotaped by Cold Spring Harbor for a video to be used for educational purposes. I also helped them to develop a high school laboratory project for genotyping genetic variants associated with lactose intolerance in Africans.

- Videotaped by National Institute of Medical Sciences as part of their public education effort (<http://publications.nigms.nih.gov/multimedia/captions/tishkoff-captions.html>) (May 2008)
- Consultant and featured scientist for Genetics textbook for children published by National Geographic (2008)
- Videotaped commentary about publication of Neanderthal Genome on *Science* magazine website (May 2010).
- Production of a live webcast and video for HHMI as part of the Holiday Lectures series entitled “Bones Stones and Genes: The Origin of Modern Humans”. The video, which also features an interview and filming of lab work at Penn, will be distributed to >20,000 high schools nationally and internationally (October 2011)
- Advisor for development of NIH Curriculum Supplement on Evolution and Medicine (2011)
- Production of Documentary for the University of Munich LMU (2012) “Good milk / bad milk” (<http://www.evolutionoflife.com/en/observe/video/fiche/good-milk-bad-milk.html>)
- Advisor for the Smithsonian National Museum of Natural History and NHGRI for production of an exhibit on the Human Genome (2012-2013).
- American Society of Cell Biology (ASCB) iBioSeminar, a web-based seminar series (<http://www.ascb.org/ibioseminars/>) (2013)
- Discussant, videotaped public symposium, [The African Diaspora: Integrating Culture Genomics and History Symposium](#), Smithsonian National Museum of Natural History (2013)
- Featured on Ask Me Anything (AMA) on Reddit, September 26, 2015 answering questions on human genetics and human evolution.
https://www.reddit.com/r/science/comments/3mgh26/science_ama_series_i_study_the_population_history/
- Participated as discussant for The Public Classroom @ Penn Museum: *Science and Race: History, Use and Abuse* which was open to the general public.
<https://www.penn.museum/information/press-room/press-release-events/1077-science-and-race-history-use-and-abuse>. I was also interviewed for an accompanying documentary on *Science and Race*, designed for middle school audiences and older, 2016.
- Interviewed on MendelsPod Podcast, <https://mendelspod.com/podcasts/why-diversity-only-path-forward-sarah-tishkoff-african-genomics/>, Nov 2016
- Panel Participant at World Science Festival in New York discussing topics on human evolution for a general audience. (2017)
- Interviewed for *Science* podcast on Evolution of Human Skin Color, October 12, 2017
- Public lecture and panel discussion on genetic and environmental contributions to health disparities <https://ldi.upenn.edu/news/decoding-racial-and-ethnic-disparities-health-care>, December 2017
- Public lecture and panel discussion on “Production, dissemination, and use of knowledge”, UPenn “Teach-In”, March 2018
- Public lecture and panel discussion on “Does Race Exist? Exploring the Future of Genetics, Ancestry, and Medicine”, Franklin Institute, Philadelphia, PA 2018.
<https://www.fi.edu/event/2018-09-12/does-race-exist>
- Science Friction Podcast on genetics, race and ancestry, May, 2019.
- Public presentation and discussion on "What's Race Got To Do With It?" at the Free Library in Philadelphia, 2019

- Featured in Podcast from ABC broadcasting in Australia discussing lack of ethnic diversity in human genomic studies and implications ancestry testing and studies of disease, June, 2019. https://abcmedia.akamaized.net/rn/podcast/2019/05/sfn_20190526.mp3
- Interview with WHYY about teaching students about concerns with using genetics to define race, <https://whyy.org/articles/what-is-race-it-isnt-skin-color-as-some-young-people-are-learning/>, July 2019
- Panelist, “Understanding African Diversity: A Radically Interdisciplinary Discussion”, The Africa Center, Harlem, New York, March, 2020
- Interviewed for Genetics unzipped. The Genetic Society Podcast <https://geneticsunzipped.com/how-to-listen/> May, 2020
- Virtual panel presentation and discussion about COVID-19 research and career for 400 Philadelphia high school students. July, 2020.
- Video interview on genetics, race, and skin color as part of an art installation/performance by artist Geraldina Interiano Wise, displayed at the Houston Holocaust Museum, April. 2021.
- Podcast, discussion on Race in Medicine-Genetic Variation, Social Categories, and Paths to Health Equity, together with Evans M, Williams W, Graves J Jr, Shim R published by the New England Journal of Medicine, Sept, 2021.
- Podcast, Franklin institute “So Curious: Human 2.0” focused on “Race, Personalized Health and Genetics”, aired February, 2022
- Participated in a “Meet the Scientists” session with high school students who are members of the American Junior Academy of Science (AJAS), February, 2022
- Participated in a virtual discussion “Inspiring Impact featuring Penn School of Arts & Sciences: Fear and Loathing and Science: There’s something about Darwin”. This panel discussion focused on the impact of evolution on our understanding of human variation and disease, and how we can address “science denial”. This event was attended by over 600 Penn alumni and the recording will be made available to a broader audience. 2022.
- Judge at “The Intersection of Community, Academic and Grantmaking” pitches for start-up funding for applicants from URM in the Philadelphia community, March, 2023.

My research has been the focus of 23 news articles and/or Perspectives in *Science*, *Nature*, or *Nature Genetics*:

- *Science* 271:1341, March 8, 1996
- *Science* 292:627-629, April 27, 2001
- *Science* 293:442-443, July 20, 2001
- *Science* 293:389, July 20, 2001
- *Science* 314:1672, December 15, 2006
- *Nature* 444:994-996, December 2006
- *Nature Genetics* 39:7-8, January 2007
- *Nature News* December 10, 2007
- *Nature News* April 30, 2009
- *Science* 324:575, May 2009
- *Nature Genetics* 41, 642-642, June 2009
- *Nature News* 26 April 2012
- *ScienceNOW* 26 April 2012
- *Nature* 486, S16-S17 20 June 2012
- *Nature News* 26 July 2012

- *Science* 27 July 2012: 396.
- *Science* 27 July 2012: 394-396.
- *ScienceNOW* 26 July 2012
- *Nature* 488, 8-8, 1 August, 2012
- *Nature Genetics* 44, 967-967 29 August 2012
- *Nature News* 20 Sept 2012
- *Science News*, Oct 12, 2017
- *Nature News*, Oct 25, 2018

I have been quoted in 42 additional *Science* and *Nature* news articles:

- *Science* 276: 535-536, April 25, 1997
- *Science* 282:654-655, October 23, 1998
- *Science* 300:1641, June 13, 2003
- *Science* 303:1319-1320, February 27, 2004
- *Science* 309:234-7, July 8, 2005
- *Nature* 456:18-21, November 5, 2008
- *ScienceNOW* 5 February 2009
- *ScienceNOW* 24 March 2010
- *Science* 327: 1566-1567, 26 March 2010
- *Science* 7 328: 680-684, May 2010
- *ScienceNOW* 3 June 2010
- *Nature News* 5 September 2011
- *Nature News* 7 March 2011
- *Nature* 468, S13-S15 22 December 2010
- *Nature News* 3 June 2010
- *Nature* 463, 857-857 17 February 2010
- *Nature News* 25 January 2010
- *Nature News* 23 September 2009
- *Science* 11 June 2010: 1342.
- *Science* 263, 16 July 2010
- *Science* 331:23-23, 7 January 2011
- *Nature News* 5 September 2011
- *Science* 167, 14 October 2011
- *Nature* 486, 17-17. 6 June 2012
- *ScienceNOW* 6 August 2012
- *ScienceNOW* 30 August 2012
- *Nature News* 28 November 2012
- *Nature News* 27 August 2013
- *Nature News* 29 January 2014
- *Science* Vol. 343, March 2014
- *Science News* 8 August 2014
- *Nature News* 8 Aug 2014
- *Science News*, March 2015
- *Science News*, Mar. 15, 2018
- *Science News*, 21 January, 2019
- *Science News*, 11 March, 2019

- *Nature News*, 16 April, 2019
- *Science News*, 28 October, 2019
- *Science News*, 22 January, 2020
- *Science News*, 30 January, 2020
- *Nature*, 585, 7 September, 2020
- *Science*, 371, 5 Feb 2021
- *Science News*, 24 Jan 2023
- *Science News*, 10 May 2023

My research was featured in NIGMS Findings magazine, February 2009.

I have done numerous interviews with the media including two documentaries featured on Discovery channel and PBS, four radio interviews on BBC, five radio interviews on NPR, two radio interviews with WTOP, two radio interviews with CBC radio in Canada, an interview on the Koji Nnamdi show on WAMU in Washington, DC, and two interviews on Radio Times with Marty Moss-Cohane on WHYY in Philadelphia.

My research has been featured in hundreds of media reports including the *New York Times* (eight times), *Washington Post* (five times), *Baltimore Sun* (three times), *LA Times* (three times), *Philadelphia Inquirer* (five times), *US News and World Report*, *The Economist*, *National Geographic*, *Popular Science*, *Science News*, *Discovery News*, *The Christian Science Monitor*, *American Scientist*, *Scientific American*, *Newsday*, *Genome Web News*, *Associated Press*, CNN, ABC News, *Men's Health Magazine*, *Sports Illustrated*, *Discover Magazine*, *Philadelphia Magazine*, among others.