

Curriculum Vitae
Sarah A. Tishkoff, Ph.D.

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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 (Trefor 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

- 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

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, 11th International Conference on Zebrafish development and Genetics
- 2015 Wolk Lecture, Colgate University, Hamilton, NY
- 2017 14th 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

Memberships in Professional and Scientific Societies and Other Professional Activities:International:

2000-present	Leakey Foundation (Grants 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 (Grants 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-present	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-present	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-present	National Human Genome Research Institute (NHGRI), National Institutes of Health (NIH) 1000 Genomes Samples Advisory Committee

- 2010-present 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
- 2012-2013 American Society of Human Genetics (Member, Nominating Committee)
- 2013-2014 American Society of Human Genetics (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-present Advisory Board, International Society for Evolution, Medicine, and Public Health
- 2016 – present Member, Executive Director of the American Society of Human Genetics Search Committee
- 2016 Ad Hoc review member, Intramural review, NIAAA
- 2017 Chair, NIH Review panel of early investigator MIRA application, NIGMS
- 2018-2022 Board of Scientific Counselors, NHGRI Intramural program

Local:

- 2009-2010 Franklin Institute Scientific Advisory Panel

Editorial Positions:

- 1997-present Reviewer: Nature; 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-present Editorial Board, Genome Research Journal
- 2010-2013 Associate Editor, The Quarterly Review of Biology
- 2011-present Associate Editor, G3 (Genes, Genomes, Genetics)
- 2011-present Member, Editorial Board, Evolution, Medicine, and Public Health
- 2016-present Associate Editor PLOS Genetics

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

Major Academic and Clinical Teaching Responsibilities:

Masters, PhD and Postdoctoral Mentorships:

- 2000-2008 M.A. Student Advisor:
- Hannah Hutton, (03/11-12/14)
 - Kristin Kaercher (09/05-09/08)
 - Bailey Levis (09/04-12/06)
 - Kweli Powell (08/00-06/04)
 - Lisa Pfeiffer (01/01-08/08)
- 2001-present Ph.D. Student Advisor:
- Derek Kelly, GCB program (06/15 – present)
 - Meagan Rubel, Anthropology program (06/13 – present)
 - Sameer Soi, GCB program (06/09-present)
 - Felicia Gomez (09/06-05/13; postdoctoral fellow Washington State University St. Louis)
 - Jibril Hirbo (08/03-12/10; postdoctoral fellow, Vanderbilt University)
 - Alessia Ranciaro (06/04-06/08; research scientist, University of Pennsylvania)
 - Holly Mortensen (06/01-06/08; bioinformatician, EPA)
- 2003-2008 Visiting Ph.D. Student Advisor:
- Gil Tomas (10/03-07/04)
- 2001-present Postdoctoral Advisor:
- Eric Mbunwe (10/16 – present)
 - Shaohua Fan (03/15- present)
 - Marcia Holsbach Beltrame (10/14 – present)
 - Nicholas Crawford (03/14 – present)
 - Matthew Hansen (09/13-present)
 - Yancy Lo (11/15 – 12/16) (Research Scientist, Institute of Biological Informatics, University of Pennsylvania)
 - Joseph Lachance (12/10-12/14) (Assistant Professor, Georgia Institute of Technology)
 - Renata Afi Rawlings-Goss (10/11-08/14) (Co-Executive Director of the South Big Data Innovation Hub, Georgia Institute of Technology)
 - Simon Thompson (09/09-04/14) (Research Coordinator at Global Alliance for Chronic Diseases, UK)
 - Alessia Ranciaro (07/08-06/14) (Senior Research Scientist, University of

- Pennsylvania)
- Michael Campbell (09/07-06/14) (Assistant Professor, Howard University)
 - Jibril Hirbo (12/10-12/13) (Research Scientist, Vanderbilt University)
 - Laura Scheinfeldt (2009-2013) (Associate Professor, Temple University)
 - Clara Elbers (07/10-02/13) (Research Scientist, Amsterdam Medical Center)
 - Bart Ferwerda (07/10-6/12) (Research Scientist, Amsterdam Medical Center)
 - Wen-Ya Ko (06/07-12/12) (Assistant Professor, Yang-Ming University, Taiwan)
 - Joe Jarvis (08/08-10/11) (Senior Research Associate, Coriell Institute)
 - Charla Lambert (11/08-01/10) (Cold Spring Harbor Laboratories)
 - Floyd Reed (03/05-03/08; Assistant Professor, University of Hawaii)
 - Katy Gonder (01/02-07/07; Associate Professor, Drexel University)
 - Eduardo Tarazano-Santos (3/01-11/03; Associate Professor, Universidade Federal de Minas Gerais, Brazil)
 - Brian Verrelli (02/01-11/03; Associate Professor, Virginia Commonwealth University)
 - Agnes Awomoyi (03/01-01/03; 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, Megan Rubel, Mitra Eghbal, Adam SanMiguel, Katie Siewert, Kelsey Johnson
- 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 UMD: supervised between 2-3 students/year in undergraduate internships (BSCI 399 or 279)
- 2008-present Penn: supervised between 2-3 undergraduate students/year who did research in lab (BIOL 399 or 499)
- 2001-present Undergraduate Research Advisor:
Current: Elizabeth Eyermann,
Past: 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 (research fellow, University of Missouri); Avery Davis (graduate student, Harvard University), Robbie, Berg, John Russell, Kristin Mullen, Christopher Nagle, Tina Kartika, Stephanie Fagbemi, Arielle Fogel, Juliette Rando

- 2004-2009 High School Research Advisor:
Aiman Saleh (2004-2005), Joseph Mustapha (2009)
- 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)

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)
- 2010-2018 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)
- 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,
2010-2014 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 - 2018	Lecturer, Biol 221 Introduction to Genetics (3 lectures on population genetics)
2017	Lecturer, Biol 121 Introduction to Biology/Molecular biology (1 lecture)
2018	Lecturer, Epidemiology 584 (1 lecture)
2018	Lecturer, Biol 221 Introduction to Genetics (3 lectures on population genetics)
2018	Lecturer, AFRC 307-401/SOCI 307-401 Race, Science & Justice (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

1998:

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

1999:

Jan, 1999	American Association for the Advancement of Science Meeting, Symposium on "The Emergence of modern Human Form" organized by Dr. Loring Brace
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- 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.
- 2000:
- 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.
- 2001:
- 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.
- 2002:
- 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 McHarry/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
- 2009:
- 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
- 2010:
- 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

2011:

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

2012:

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

2013:

- 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
- 2014:
- 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
- 2015:
- 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, 56th 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 30th 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
- 2016:
- Feb, 2016 Darwin Lecture, Duquesne University, Pittsburgh, PA
- Feb, 2016 Darwin Lecture, Center for Genomics and Systems Biology, NYU, New York, NY
- March 2016 Department of Systems Biology, Columbia University, New York, NY
- April 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 57th 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
- 2017:
- March, 2017 Rutgers University, graduate student invited speaker
- April 2017 14th 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”

August, 2017	Department of Human Genetics, Vanderbilt University
Sept. 2017	Keynote Speaker, International Pigment Cell Conference, Denver, CO
Oct. 2017	Department of Anthropology, Rutgers University
Nov. 2017	Center for Evolution and Medicine, Arizona State University, AZ
Nov. 2017	Keynote Speaker, 10 th Anniversary of the Institute for Genome Sciences, University of Maryland, Baltimore
Nov. 2017	Cockerham Lecture, North Carolina State University, Raleigh, NC.
Dec. 2017	Keynote Speaker, NIEHS Superfund Research meeting, Philadelphia, PA
Dec. 2017	Keynote Speaker Rutgers Camden Center for Computational and Integrative Biology Retreat
Feb. 2018	Keynote speaker, Darwin Day, University of Texas at Tyler, TX.
May 2018	Biology of Genomes Meeting
May 2018	University of Washington, Genome Sciences

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.

Grants:

Current:

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 of Body Size and Metabolism in Ethnically Diverse Africans, National Institutes of Health, 1R01GM113657-01, 01/15/15 – 01/14/19 (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 – 12/31/18). (Sarah Tishkoff PI)

Past:

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-076637-05REVISED, 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 (AVPRS) 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.)

Bibliography:

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.
 7. Zietkiewicz, E., Yotova, V., Jarnik, M., Korab-Laskowska, M., Kidd, K. K., Modiano, D., Scozzari, R., Stoneking, M., Tishkoff, S., Batzer, M., Labuda, D.. Nuclear DNA diversity in worldwide distributed human populations. Gene 205(1-2): 161-71, 1997.
 8. Tishkoff, S. A., Goldman, A., Calafell, F., Speed, W. C., Deinard, A. S., Bonne-Tamir, B., Kidd, J. R., Pakstis, A. J., Jenkins, T., Kidd, K. K.. A global haplotype analysis of the myotonic dystrophy locus: implications for the evolution of modern humans and for the origin of myotonic dystrophy mutations. American Journal of Human Genetics 62(6): 1389-402, 1998.
 9. Zietkiweicz, E., V. Yotova, M. Jarnik, M. Korab-Laskowska, K.K. Kidd, D. Modiano, R. Scozzari, M. Stoneking, S. Tishkoff, M. Batzer, and D. Labuda. Genetic structure of the ancestral population of modern humans. Journal of Molecular Evolution 47: 146-155, 1998.
 10. Destro-Bisol, G., Maviglia, R., Caglia, A., Boschi, I., Spedini, G., Pascali, V., Clark, A., Tishkoff, S.. Estimating European admixture in African Americans by using microsatellites and a microsatellite haplotype (CD4/Alu). Human Genetics 104(2): 149-57, 1999.
 11. Tishkoff, S.A., A.J. Pakstis, S. Michalatos-Beloin, G. Ruano, and K.K. Kidd. A comparison of molecular and statistical methods for estimating haplotype frequencies as illustrated by highly polymorphic STRP data. American Journal of Human Genetics 67(2): 518-22, Aug 2000.
 12. Tishkoff SA, Pakstis AJ, Stoneking M, Kidd JR, Destro-Bisol G, Sanjantila A, Lu R, Deinard AS, Sirugo G, Jenkins T, Kidd KK, and Clark AG. Short Tandem-Repeat Polymorphism/Alu Haplotype Variation at the PLAT Locus: Implications for Modern Human Origins. American

Journal of Human Genetics 67(4): 901-925, Oct 2000.

13. Tishkoff, S. A., Pakstis, A. J., Ruano, G., Kidd, K. K.. The accuracy of statistical methods for estimation of haplotype frequencies: an example from the CD4 locus. American Journal of Human Genetics 67(2): 518-22, 2000.
14. Tishkoff, S. A., Varkonyi, R., Cahinhinan, N., Abbes, S., Argyropoulos, G., Destro-Bisol, G., Drousiotou, A., Dangerfield, B., Lefranc, G., Loiselet, J., Piro, A., Stoneking, M., Tagarelli, A., Tagarelli, G., Touma, E. H., Williams, S. M., Clark, A. G.. Haplotype diversity and linkage disequilibrium at human G6PD: recent origin of alleles that confer malarial resistance. Science 293(5529): 455-62, 2001.
15. Verrelli, B. C., McDonald, J. H., Argyropoulos, G., Destro-Bisol, G., Froment, A., Drousiotou, A., Lefranc, G., Helal, A. N., Loiselet, J., Tishkoff, S. A.. Evidence for balancing selection from nucleotide sequence analyses of human G6PD. American Journal of Human Genetics 71(5): 1112-28, 2002.
16. Drousiotou, Anthi, Elias Touma, Nicoletta Andreou, Jacques Loiselet, Michalis Angastiniotis, Brian Verrelli, Sarah Tishkoff. Molecular characterization of G6PD deficiency in Cyprus. Blood Cells Molecular Disease 33: 25-30, 2004.
17. Smith MW, NJ Patterson, JA Lautenberger, AL Truelove, GJ McDonald, BD Kessing, Z Yi, G deThe, M. Essex, P. J. Kanki, JP Phair, JJ Goedert, D Vlahov, RE Ferrell, SM Williams, SA Tishkoff, CA Winkler, FM DeLaVega, T Woodage, D Altshuler, JJ Sninsky, DA Gilbert, DA Hafler, SJ O'Brien, and DE Reich. A high density ancestry map for disease gene discovery in African Americans. American Journal of Human Genetics 74(5): 1001-13, 2004.
18. Tishkoff, S. A., Kidd, K. K.. Implications of biogeography of human populations for "race" and medicine. Nature Genetics 36(11 Suppl): S21-7, 2004.
19. Verrelli, B.J. and S.A. Tishkoff. Signatures of selection and gene conversion associated with human color vision variation. American Journal of Human Genetics 75(3): 363-75, 2004.
20. Evans PD, Gilbert SL, Mekel-Bobrov N, Vallender EJ, Anderson JR, Vaez-Azizi LM, Tishkoff SA, Hudson RR, Lahn BT.. Microcephalin, a gene regulating brain size, continues to evolve adaptively in humans. Science 309: 1717-20, 2005.
21. Mekel-Bobrov N, Gilbert SL, Evans PD, Vallender EJ, Anderson JR, Hudson RR, Tishkoff SA, and Lahn BT.. Ongoing adaptive evolution of ASPM, a brain size determinant in Homo sapiens. Science 309: 1720-2, 2005.
22. Shriver MD, Rui Mei, Esteban J. Parra, Vibhor Sonpar, Indrani Halder, Sarah A. Tishkoff, Theodore G. Schurr, Sergev I. Zhadanov, Ludmilla P. Osipova, Tom Brutsaert, Jonathan Friedlaender, Lynn B. Jorde, W. Scott Watkins, Michael J. Bamshad, Gerardo Gutierrez, Halina Loi, Hajime Matsuzaki, George Argyropoulos, Jose Fernandez, Rick A. Kittles, Joshua M. Akey, and Keith Jones. Large-scale SNP analysis reveals clustered and continuous patterns of human genetic variation. Human Genomics 2(81): 81-89, 2005.

23. Tarazona-Santos, E., Tishkoff, S. A.. Divergent patterns of linkage disequilibrium and haplotype structure across global populations at the interleukin-13 (IL13) locus. Genes and Immunity 6(1): 53-65, 2005.
24. Awomoyi A, G. Sirugo, M.J. Newport, and S.A. Tishkoff . Global distribution of a novel trinucleotide microsatellite polymorphism (ATA)_n in intron 8 of the SLC11A1 gene and susceptibility to pulmonary Tuberculosis. European Journal of Immunogenetics 33(1): 11-5, 2006.
25. Reed FA, Tishkoff SA.: Positive selection can create false hotspots of recombination. Genetics 172(3): 2011-4, 2006.
26. Verrelli, B. C., Tishkoff, S. A., Stone, A. C., Touchman, J. W.. Contrasting histories of G6PD molecular evolution and malarial resistance in humans and chimpanzees. Molecular Biology and Evolution 23(8): 1592-601, 2006.
27. Wang, J., Song, L., Gonder, M. K., Azrak, S., Ray, D. A., Batzer, M. A., Tishkoff, S. A., Liang, P.. Whole genome computational comparative genomics: A fruitful approach for ascertaining Alu insertion polymorphisms. Gene 365: 11-20, 2006.
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 32. Kaercher, K and S.A. Tishkoff. Nucleotide sequence variation in Glycophorin A, B, & E receptor genes in ethnically diverse West African populations. Society of Molecular Biology and Evolution meeting, Halifax, Nova Scotia June 2007 Notes: Poster.
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43. Gomez, F., Tomas, G., Rocha, J., Tishkoff, S.. Patterns of Nucleotide Variation at ICAM-1 in Diverse African Populations. American Society for Human Genetics Annual Meeting, Philadelphia, PA, 2008 Notes: Poster.
44. Gomez, F., Tomas, G., Rocha, J., Tishkoff, S.. Patterns of genetic variation and signatures of natural selection at ICAM-1 in diverse African populations. [poster presentation] Human Genome Variation Conference, Toronto, Canada, 2008 Notes: Poster.
45. Hirbo, J.B., Omar, S.A., Ibrahim, M. and Tishkoff, S.A.. Genetic History of Human Populations of East Africa. 58th Conference of the American Society of Human Genetics, Philadelphia, PA 2008 Notes: Poster.
46. Ko, W.-Y., Kaercher, K., Tishkoff, S.A.. Natural selection on the erythrocyte surface glycoproteins in malaria-endemic human populations of Africa. 58th Meeting of the American Society of Human Genetics, Philadelphia, PA 2008 Notes: Poster.
47. Ranciaro, A., Reed, F., Hirbo, J., Powell, K., Osman, M., Muntaser, H., Sabah, O., Fremont, A., Tishkoff, S.A.. The evolutionary history of lactase persistence in Africa. American Society of Human Genetics, Philadelphia, PA 2008 Notes: Poster.
48. Tishkoff, S.A., Ko, W.-Y., Gomez, F., Reed, F.A.. Genetic Variation in Africa: Implications for evolution of infectious disease resistance. Society of Molecular Biology Mtg, Barcelona, Spain, 2008 Notes: Oral presentation.
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51. Hirbo, J.B., Ranciaro, A., Omar, S.A., Ibrahim, M., Tishkoff, S.A.. Complex genetic history of human populations in East Africa. 59th Conference of the American Society of Human Genetics, Honolulu, Hawaii 2009 Notes: Oral presentation.
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- Polymorphisms in Human Populations, Rome. 2009 Notes: Oral presentation.
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 54. Tishkoff, S.A., Gomez, F., Froment, A., Ibrahim, M., Nyambo, T., Omar, S., Wambebe, C., Ko, W.-Y.. An evolutionary and population genetics approach for identifying malaria susceptibility loci in Africa. Meeting on Host Genetics Control of Infectious Diseases, Pasteur Institute, Paris, France 2009 Notes: Oral presentation.
 55. Ko, W.-Y., Kaercher, K., Tishkoff, S.A.. Balancing and positive selection on different parts of the extracellular domain of erythrocyte surface receptors. Ecology and Evolution of Infectious Disease Meeting, Atlantic City, NJ March 2010 Notes: Poster.
 56. Ko, W.-Y., Gomez, F., Tishkoff, S.A.. An evolutionary and population genetic approach to malaria susceptibility in Africa. American Society of Physical Anthropology Meeting, Albuquerque, NM. 141(146), April 2010 Notes: Oral presentation.
 57. Ko, W.-Y., Kaercher, K., Tishkoff, S.A.: Adaptive evolution of human glycoporphin loci in malaria endemic African populations. Society for Molecular Biology and Evolution (SMBE) Annual Meeting, Lyon, France July 2010 Notes: Oral presentation.
 58. Joseph P. Jarvis, Jibril Hirbo, Charla Lambert, Alessia Ranciaro, Laura Scheinfeldt, Sameer Soi, Simon Thompson, Sarah A. Tishkoff. Integrative genomic and phenotypic studies of variation in Africa. NIH Director's Pioneer Award Meeting, Bethesda, MD, Sept, 2010. Notes: Poster.
 59. Campbell, M.C., Ranciaro, A., Froment, A., Zinshteyn, D., Bodo, J.-M., Drayna, D., Breslin, P., Tishkoff, S.A.. The Genetic Basis and Evolutionary History of PTC Bitter Taste Perception in Africa. American Society of Human Genetics Meeting, Washington, D.C. November 2010 Notes: Poster.
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 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.
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 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.
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 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
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)

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/
 - 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>

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

I have been quoted in 33 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

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 WHYI 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*, among others.