

# CURRICULUM VITAE

Jeffrey C. Long

Professor of Anthropology  
University of New Mexico  
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**Date:** March 31, 2013

## EDUCATION:

University of California at Santa Barbara	BA	1976	Physical Anthropology
Arizona State University, Tempe	MA	1978	Anthropology
University of Michigan, Ann Arbor	MS	1982	Human Genetics
University of Michigan, Ann Arbor	PhD	1984	Human Genetics
Medical College of Virginia	Post- doc	1985	Human Genetics
University of Pittsburgh	Post- doc	1986	Biostatistics

## MENTORS:

Doctoral Committee: Peter E. Smouse (Chair), Frank B. Livingstone, James V. Neel, George Estabrook.

Post Doctoral: Nicholas G. Martin (Medical College of Virginia) and Aravinda Chakravarti (University of Pittsburgh)

**RESEARCH INTERESTS:** Molecular population genetics and evolution, complex traits, statistical genetics, human evolution.

## ACADEMIC APPOINTMENTS:

1986-1987	Assistant Professor, Department of Anthropology, Hunter College and Ph.D. Program in Anthropology, City University of New York.
1987-1992	Assistant Professor, Department of Anthropology, University of New Mexico, Albuquerque, New Mexico, 87131.
1992-1995	Associate Professor (with tenure), Department of Anthropology, University of New Mexico, Albuquerque, New Mexico, 87131. (On leave 1992 - 1995)
1992-1995	Special Expert, Laboratory of Neurogenetics, National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD, 20892.
1995-2001	Senior Investigator (with tenure), National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism, Laboratory of Neurogenetics, Bethesda, MD, 20892.
1996-2001	Chief, Section on Population Genetics and Linkage, Laboratory of

- Neurogenetics, National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism, Laboratory of Neurogenetics, Bethesda, MD, 20892.
- 1996, 1998 Part-time Instructor, Department of Biological Sciences, George Washington (Biology 238 Population Genetics)
- 2001-2009 Professor (with tenure), Department of Human Genetics, University of Michigan Medical School, Ann Arbor, MI 48109-0618
- 2001-2009 Member, Center for Statistical Genetics, University of Michigan, Ann Arbor, MI 48109
- 2003-2009 Adjunct Professor, Department of Anthropology, University of Michigan, Ann Arbor, MI 48109
- 2009-Present Professor (with tenure), Department of Anthropology, University of New Mexico, Albuquerque, NM 81731
- 2013-Present Professor, Department of Biology, University of New Mexico, Albuquerque, NM 81731

#### CONSULTING POSITIONS:

- 1997 Consultant in Research, Department of Biological Sciences, George Washington University (Dissertation Advisement).

#### SCIENTIFIC ACTIVITIES:

##### *Editorial Boards*

- 1999-2002 Associate Editor, *Molecular Biology and Evolution*
- 2012- Editorial Board, *Journal of Anthropological Research*
- 2012- Associate Editor *Yearbook of Physical Anthropology*

##### *Study Sections (Including NSF Advisory Panels)*

- 1993 – 1996 National Science Foundation Physical Anthropology Advisory Panel.
- 1996 National Science Foundation Human Genome Diversity Advisory Panel.
- 1999 – 2003 NHGRI Center for Inherited Disease Access Committee (Regular Member)
- 2001 – 2004 NIH Mammalian Genetics Study Section (Regular Member)
- 2004 – 2005 NIH Genetic Variation and Evolution Study Section (Regular Member)
- 2004 – 2005 National Science Foundation Human Origins Advisory Panel
- 2006 NIDA initiative in Epigenetics, Special Emphasis Panel. RFA DA06-007, Epigenetics of Neurobiology of Addiction.
- 2008 NIH/CSR Special Emphasis Panel. Genes, Genomes, Genetics - J (Mar)
- 2009 NIH/CSR Special Emphasis Panel. Genes, Genomes, Genetics - J (Mar & Nov)
- 2010 NIH/CSR Special Emphasis Panel. Genes, Genomes, Genetics - J (July)
- 2010 ZRG1 GGG-N (02) M Gene Discovery and Gene Function (Oct)
- 2011 NIH/CSR Genetic, Variation and Evolution Review Panel (Jun)

- 2011 NIH/CSR Special Emphasis Panel. Genes, Genomes, Genetics - J (Oct)
- 2011 NHGRI Review Panel - The Electronic Medical Records and Genomics (eMERGE) Network, Phase II – Pediatric Study Investigators. (Nov)
- 2012 NHGRI Special Emphasis Panel. H3Africa Initiative – (Mar)
- 2012 NIH/CSR Genomics, Computational Biology, and Technology Study Section (Oct)
- 2013 NHGRI Special Emphasis Panel. H3Africa Initiative – (Feb)

**COMMITTEE AND ADMINISTRATIVE SERVICE (PAST 10 YEARS)**

*National*

- 2002-2007 NSF/Yale University Allele Frequency Database (ALFRED) Advisory Board
- 2003 - 2006 Program Committee Member, The American Society of Human Genetics
- 2004 - 2007 Advisory Board Member of the American Anthropological Association Understanding Human Variation project
- 2004 - 2007 Member Working Group of the NIGMS Human Genetic Cell Repository
- 2005 - 2008 Member Federal Advisory Committee for National Children’s Study.
- 2008 -2010 Member External Advisory Committee for NIAAA Collaborative Studies on Genetics of Alcoholism (COGA)
  
- 2012-2016 Member Working Group of Federal Advisory Committee on Genomics and Society (NHGRI)

*Institutional Committee Assignments*

- 2004 - present Executive Committee, University of Michigan Substance Abuse Research Center
- 2005 - 2006 Human Genetics Department Faculty Search Committee (University of Michigan)
- 2007- 2009 Human Genetics Department Seminar Committee (University of Michigan)
- 2012- Salary Review Committee (University of New Mexico)
- 2013- Faculty Senate (University of New Mexico)
- 2010- Advisory Committee, Program in Interdisciplinary Biological and Biomedical Sciences (University of New Mexico)
- 2011- Advisory Committee, Ortiz Center (University of New Mexico)
- 2012- Athletic Council (Univeristy of New Mexico)

**GRANT SUPPORT AND FUNDED RESEARCH**

- 1987 Conference Grant from the Wenner-Gren Foundation for Anthropological Research. Conference title "Uses of molecular biology: the basis of genetic disease and determining pathways". Dr. W.S. Pollitzer, University of North Carolina, Co-organizer.

- 1987 Biomedical Research Support Grant, office of the Vice President of Research, UNM. for "The estimation of genetic contributions from ancestral populations to hybrid individuals and populations".
- 1990 Biomedical Research Support Grant, office of the Vice President of Research, UNM. for "Demographic and molecular population genetic studies of Southwestern Indian Tribes".
- 1991 National Science Foundation, BNS-9108422, for "Molecular and demographic population genetic studies of Southwestern Indian Tribes". JC Long (Principal Investigator), Co-Investigators David Goldman, MD (National Institutes of Health), and Charles North, MD (Indian Health Services). Total Award \$66,000.

*National Institutes of Health Intramural Research Program (Funded Research Projects 1992-2001)*

1. Gene Mapping and Linkage Studies with Short Tandem Repeat (STR) Markers (Principal Investigator).
2. Statistical Genetics of Linked Multi-allelic Loci. (Principal Investigator).
3. Population Genetics of Native American Tribes (Principal Investigator). The data collection phases of this project were funded by a grant from the National Science Foundation.
4. Molecular Genetics Studies on Alcoholism in American Indians (Associate Investigator).
5. Genetic Studies of the Electroencephalogram and Event-Related Potentials (Associate Investigator).
6. Molecular Genetic Studies of Disturbed Serotonin Function (Associate Investigator).
7. An American Indian Tribe with Low Alcoholism Prevalence: Transmission Analysis, Linkage Analysis and Gene/Environment Interactions. (Principal Investigator)

Completed (Boehnke, PI)

07/01/2001-06/31/2005

T32-HG-00040

Genome Sciences Training Program

Role: Associate director. Recruitment and retention of underrepresented minority students, 10% salary support.

Completed (Long, PI)

09/01/2003-08/31/2006

NSF 0321610

Allelic Variability and Tests for Signatures of Natural Selection at the Human ALDH2 Locus

The goal of this project is to test for natural selection at the ALDH2 locus by analyzing nucleotide sequence variation within and between genomic regions, within and between populations, and between species (Total Award \$330,000).

Role: Principal Investigator

Completed (PI, Jeffrey Long)

2/01/2007 – 2009

UM Endowment for Biological Sciences

Two Projects: Developmental genetics of alcoholism. 2. Population structure and tests for natural selection. (Total Award \$85,000)

Completed (Co-PIs Jeffrey Long and Sonia Duffy) 8/01/2006-6/30/2007  
UM Head and Neck SPORE

Project Title: Role of Alcohol Metabolizing Genes in Head and Neck Squamous Cell Carcinoma Recurrence and Survival. (Total Award, \$45,000)

(PI, Jeffrey Long) 9/01/2009-8/31/2012  
NSF 0850997  
Project Title: Pattern and Process in Human DNA Sequence Variation  
(Total Award, \$264,000)

Current (PI, Jeffrey Long) 9/01/2012-8/31/2013  
NSF 0850997  
Project Title: Pattern and Process in Human DNA Sequence Variation  
(Total Award, \$264,000)  
One-year no-cost extension.

PI (Jeffrey Long)  
Wiley-Blackwell Sponsorship for Symposium at 2010 AAPA meeting.

The American Association of Physical Anthropologists awarded \$6,500 to the symposium "New Developments in the Origins and Evolution of Native American Populations" organized by me and Maria Catira Bortolini (Department of Genetics, UFRDS, Brazil).

#### **FIELD AND DATA COLLECTION EXPERIENCE:**

1983 Six months collection of blood, anthropometric, and demographic data, highland New Guinea, Institute of Medical Research, Papua New Guinea.  
1991-1993 Principal Investigator, Collection of blood samples and demographic data on numerous Southwestern Indian tribes, USA.  
1996-1997 Principal Investigator and Project officer for An American Indian Tribe with Low Alcoholism Prevalence: Transmission Analysis, Linkage Analysis and Gene/Environment Interactions, oversaw collection of psychiatric interviews, demographic data, and blood samples from Choctaw Indians.

#### **HONORS AND AWARDS**

1976 BA with honors, University of California at Santa Barbara  
1977 Tuition Fellowship, Arizona State University.  
1980 NIH Predoctoral Trainee, Genetics (4 yrs.)

- 1983 Rackham Dissertation Grant, University of Michigan
- 1986 Travel Award to attend the VII International Congress of Human Genetics, held in Berlin September 1986, Awarded by the American Society of Human Genetics.
- 1999 NIAAA Equal Employment Opportunity Special Achievement Award.
- 2007 Gabriel Lasker Award for the best paper published in the journal *Human Biology* in the year 2003.

## MEMBERSHIPS IN PROFESIONAL SOCIETIES

American Society of Human Genetics

## TEACHING ACTIVITIES

### *NIH K-Award Mentor*

Jaakko Lappalainen, MD, PhD, Department of Psychiatry, Yale University School of Medicine.  
 Lynda Lisabeth, PhD, Department of Epidemiology, School of Public Health University of Michigan, Ann Arbor  
 Li Luo, PhD, Biostatistics, University of New Mexico Medical School, Proposal in preparation.

### *Post-Doctoral advisement/direction (Major Advisor):*

[Co-authored Journal Publications, see Bibliography for Complete References]

Margrit Urbanek, Ph.D. (NIAAA post doctoral IRTA), 1993-1996, Currently Assistant Professor of Human Genetics, Northwestern University School of Medicine, [21,22,26,31,33,34,40]  
 Jaakko Lappalainen, M.D.,Ph.D. (Fogarty Fellow), 1996-1997, Currently Research Assistant Professor of Psychiatry, Yale University School of Medicine, [28,29,30,41]  
 Joe Lorenz, Ph.D. (NIAAA post doctoral IRTA), 1997-2000, Currently Assistant Professor, Central Washington University [44,46,47,60]  
 Connie Mulligan, Ph.D. (Senior National Research Council Fellow), 1998-2000, Currently, Professor of Anthropology, University of Florida [49,55]  
 Roger Vallejo, Ph.D. (Senior Research Fellow), 1997-2000, Currently, Computational Biologist, US Department of Agriculture. [56]  
 Carrie Pfaff, Ph.D. (post doctoral fellow) 2001-2003, Currently in private law practice. [53,58]  
 Ripan Malhi Ph.D. (post doctoral fellow) 2001-2002, Currently, Associate Professor of Anthropology, University of Illinois [Submitted]  
 Keith Hunley Ph.D. (post doctoral fellow) 2002-2004, Currently, Associate Professor of Anthropology, University of New Mexico [55,57,61, Submitted]  
 Suzanne Cole Ph.D. (post doctoral fellow) 2002-2005, Currently Lecturer III in Public Health, University of Michigan [55,59,65]  
 Cecil Lewis Ph.D. (post doctoral fellow) 2005-2007, Currently, Associate Professor of Anthropology, University of Oklahoma [66, Submitted]

*Ph.D. advisement/direction (Major Advisor)*

[Co-authored Journal Publications, see Bibliography for Citation]

Ricky A Kittles, PhD Awarded January 1998, Biology, George Washington University, Currently, Associate Professor of Human Genetics, University of Chicago. [32,38,40,48,49]

Raymond Peterson, PhD Awarded July 1998 Biological Anthropology and Genetics, Penn State University, Currently, Chairman & Chief Scientific Officer, Celadon Laboratories. [20,24,39,42]

Francine Romero, PhD Awarded December 1998, Biosocial Anthropology, University of New Mexico, Currently Director, Assistant Professor of Epidemiology, University of Arizona. [25, 33]

Nicole Scott, PhD Awarded 2011, Human Genetics, University of Michigan, Currently, Post-doc Human Genetics, University of Chicago.

Tony Koehl, Anthropology, University of New Mexico, PhD in progress.

Madison Schaeffer, University of New Mexico, PhD in progress.

Sara Niedbalski, University of New Mexico, PhD in progress.

*Ph.D. advisement/direction (Committee Member Current and Past)*

Jatna Supriata, Biological Anthropology, University of New Mexico, Ph.D, 1988

Robert Tompkins, Biological Anthropology, University of New Mexico, Ph.D. 1991

Samerchai Poolsuwan, Biological Anthropology, University of Michigan, Ph.D, 1991

Steve Byers, Biological Anthropology, University of New Mexico, Ph.D. 1992

Michael Alvard, Biosocial Anthropology, University of New Mexico, Ph.D. 1992

Derrick Suggs, Biology, University of New Mexico, Ph.D. 1992

Charles Hilton, Biological Anthropology, University of New Mexico, Ph.D. 1994

Trenton Holliday, Biological Anthropology, University of New Mexico, Ph.D. 1995

Elizabeth Hare, Genetics, George Washington University, Ph.D. 1998

Bethany Neill, Epidemiology, University of Michigan, Ph.D. 2003

Srijan Sen, Neuroscience, University of Michigan, Ph.D. 2003

Tasha Fingerlin, Epidemiology, University of Michigan, Ph.D. 2003

Steve Albee-Scott, Ecology and Evolutionary Biology, University of Michigan, Ph.D. 2005

Kate Teeter, Ecology and Evolutionary Biology, University of Michigan, Ph.D. 2005

Xiaoxia Wang, Ecology and Evolutionary Biology, University of Michigan, Ph.D 2006

Matt Chatterfield, Ecology and Evolutionary Biology, University of Michigan, Ph.D. 2008

Tim Connalon, Ecology and Evolutionary Biology, University of Michigan, Ph.D. 2009

Kari Britt Schroeder, Anthropology, UC Davis, Ph.D. 2009

Meg Bakewell, Ecology and Evolutionary Biology, University of Michigan, Ph.D. 2010

Cris Van Hout, Human Genetics, University of Michigan, Ph.D. 2011

Bonnie Young, Anthropology, University of New Mexico, Ph.D. 2012

Sumaiya Olatunde, Anthropology, University of Michigan

Huateng Huang, Ecology and Evolutionary Biology, University of Michigan,

Jenna Van Liere, Bioinformatics, University of Michigan, Medical Student, U. Michigan

Libby Beckman, Biology, University of New Mexico, Current

Natalie Wright, Biology, University of New Mexico, Current

Lijing Bu, Biology, University of New Mexico, Current  
Jieyang Li, Biology, University of New Mexico, Current  
Sara Joyce, Anthropology, University of New Mexico, Current  
Meghan Healy, Anthropology, University of New Mexico, Current

*Graduate Program in Biomedical Sciences Laboratory Rotation Students:*

Jen Wagner	Population Genetics	2002
Nicole Scott	Population Genetics	2004
Michele Gornick	Psychiatric Genetics	2006
Valerie Schaibley	Population Genetics	2007
Kaanan Shah	Population Genetics	2008

*Undergraduate Summer Research Opportunity Students (University of Michigan):*

Briana Hair	Brown University	2004
Kyle Monk	Howard University	2006
Nouar Qutob	Brigham Young University	2006
Neiunna Jones	Howard University	2007
Brett Blohm	Grand Valley State University	2007
Lee Caldwell	Kalamazoo College	2008

*Courses Taught (University of New Mexico):*

Advanced Analytical Methods  
Darwinism and Modern Genetics  
Evolution and Human Emergence  
Evolutionary Genetics  
Human Biology  
Human Demography  
Human Development  
Human Genetics  
Molecular Evolution  
Population Genetics  
Quantitative Methods  
Research Computation in Evolutionary Anthropology  
Statistical Concepts and Data Analysis

*Courses Taught (George Washington University):*

Population Genetics

*Courses Taught (University of Michigan):*

Statistical Models and Numerical Methods in Human Genetics (Biostatistics 666)  
Basic Concepts in Population and Statistical Genetics (Human Genetics 544)

General Genetics (Biology 305)

*Guest Faculty*

Course/workshop DIVERSIDAD GENÓMICA EN HUMANOS Y PATÓGENOS, sponsored by Universidad Nacional San Antonio Abad del Cusco and Universidad de San Martín de Porres de Lima October 9, 2003.

Mathematical and Theoretical Biology Institute (ASU/Los Alamos Laboratories), 2003, 2004, 2005, 2006, 2007, 2008. One week each year, I deliver lectures on population genetics, genomics, and evolution. MTBI is targeted for underrepresented minority college students majoring in mathematics and biology.

Course/workshop Population Genetics and Genetic Epidemiology, Federal University Rio Grande do Sol, Brazil July 24 – Aug 4, 2006.

*Associate Director*

2001-2009 University of Michigan Genome Sciences Training Program

**INVITED PRESENTATIONS (LAST 10 YEARS)**

Genetics to Genomics: Advances into Complexity in Biology and Medicine. Delivered to Xavier University September 18, 2003.

Genetic Admixture: Delivered in Cusco, Peru at the course/workshop DIVERSIDAD GENÓMICA EN HUMANOS Y PATÓGENOS, sponsored by Universidad Nacional San Antonio Abad del Cusco and Universidad de San Martín de Porres de Lima October 9, 2003.

The Mechanisms and Results of Human Microevolution. Delivered November 21, 2003 at the AAA annual meeting in Chicago as part of a session entitled Exploring the nature of human biological diversity: Myth v. Reality, organized by the AAA Public Education Initiative on Race and Human Variation.

Genetic Ancestry, Models, Information and Estimation: Potential for Gene Mapping Delivered to Coriell Biomedical Research Institute, March 17, 2004.

Race in Genetics and Medicine. Delivered at Genetics and Health Disparities Conference held at the Institute for Social Research, University of Michigan on March 20-21, 2004.

Human Genetic Variation Within and Among Populations: Gene flow or Long-range Migration? Delivered to Dept. of Anthropology, UC Davis, January 2005.

Human Genetic Variation Within and Among Populations: Gene flow or Long-range Migration? Delivered to Dept. of Anthropology, Arizona State University, January 2005.

Human Genetic Variation Within and Among Populations: Gene flow or Long-range Migration? Delivered to Dept. of Anthropology, Pennsylvania State University, January 2005.

Research on a complex trait: Can the task be accomplished? Delivered at conference on Identifying Genes for Smoking and Nicotine Dependence: Is it feasible and worthwhile? Sponsored by the University of Michigan Tobacco Research Network and American Legacy Foundation. Held June 9, 2005.

Genetics to Genomics: Advances into Complexity in Biology and Medicine, Department of Biology, Lehman College, CUNY, September 19, 2005.

Generalized Hierarchical Modeling of Population Structure, Department of Mathematics, Howard University, November 4, 2005.

The Correlation Between Genes and Language: How Much Have We Learned? How Much Can We Learn. Delivered to Dept. of Anthropology, UC Davis, November 21, 2005.

Phenotype Constellations and Developmental Change in the Genetics of Addiction, University of Michigan, November 13, 2006 3-5pm Rackham Graduate School.

The Correlation Between Genes and Language: How much have we learned? How much can we learn? Delivered to University of Michigan Computational Linguistics Group (November, 17, 2006).

Race in Genetics and Medicine. Delivered in the symposium Advancing understanding of 'Race' to Sustain the Well-Being of Humanity, held at the AAAS Annual Meeting February 15-19, 2007 in San Francisco.

Generalized Hierarchical Modeling of Population Genetic Structure. Delivered to the Center for Global Health & Diseases, Case Western Reserve University, April 20, 2007.

Human population genetic structure and human race. Delivered at the symposium Race Reconciled, held at the Maxwell Museum of Anthropology, Albuquerque, NM, May 24-25, 2007

Interactions between biological and cultural evolution. First Biological Evolution Workshop, Porto Alegre, Rio Grande do Sul, Brazil, November 5 – 7, 2007

Race in Genetics and Medicine. **Keynote Address** at Indiana University Symposium Rethinking Race in the Americas: Anthropology, Politics, and Policy, Bloomington, IN, April 18, 2008.

Race in Genetics and Medicine. Delivered to Science and Justice Working Group at University of California Santa Cruz, May 12, 2008.

Natural Selection for an Allele that Blocks Ethanol Metabolism. Delivered to the Department of Genome Sciences at University of Washington, Seattle, October 22, 2008.

Race in Genetics and Medicine. Delivered to the XXI Congress of Medical Genetics, Belo Horizonte, Minas Gerais, Brazil, June 6, 2009.

Natural Selection for an Allele that Blocks Ethanol Metabolism. Delivered to the Department of Genetics, Federal University Rio Grande do Sol, Porto Alegre, Brazil, June 9, 2009.

200<sup>th</sup> Anniversary Celebration of Charles Darwin: Race in Genetics and Medicine. Delivered to Clinical Hospital of Porto Alegre, Brazil June 10, 2009.

**Key Note Speaker:** Faces of America Teacher Training Institute. Talk Title – Genetic Markers and Ancestry. Delivered Feb 19 & Feb 20, 2010 at the New Mexico Museum of Natural History, Albuquerque.

Participant in Advanced Seminar – Rethinking Race and Science: Biology, Genes, and Culture. Held at School for Advanced Research, Santa Fe, NM, May 2 – May 6, 2010. I submitted a paper titled, ‘The Aimless Genome’.

**Key Note Speaker:** Genetics & Ethics in the 21st Century - 14th Conference, Stanley Park Hotel, Estes Park, Colorado, sponsored by University of Colorado Denver: Center for Bioethics and Humanities Human Medical Genetics Program, University of California Los Angeles: Center for Society and Genetics Case Western Reserve University: Center for Genetic Research Ethics and Law. Talk Title: Genetic Ancestry and Race and Their Implications for Health Disparities Thursday, July 22, 2010

Speaker Faculty Seminar, Department of Anthropology, University of Illinois, Urbana-Champaign, Talk Title: Archaic admixture in contemporary non-African human populations, September 17, 2010.

Speaker Faculty Seminar, Department of Human Genetics, University of California at Los Angeles, Talk Title: Archaic admixture in contemporary non-African human populations, October 18, 2010.

Speaker Faculty Seminar, Department of Human Genetics, University of Miami Medical School, Talk Title: The Aimless Genome, December 8, 2010.

Southwest Seminars, Santa Fe New Mexico, March 16, 2012, Talk Title: Our Genetic Stratigraphy.

Discussant, American Museum of Natural History Margaret Mead Ethnographic Film Festival, November 30, 2012.

**Plenary Speaker** Human Biology Association annual meetings, April 10, 2013.

## BIBLIOGRAPHY

### *Publications in Peer-Reviewed Scientific Journals*

1. Walker PL, Long JC: Experimental analysis of butcher marks on archaeologically derived bone. *American Antiquity*, 34: 110 – 126, 1977.
2. Long JC, Smouse PE: Intertribal gene flow between the Ye'Cuana and Yanomama: Genetic analysis of an admixed village. *Am J Phys Anthropol*, 61: 410-422, 1983.
3. Wood JW, Smouse PE, Long JC: Sex specific dispersal patterns in two human populations of highland New Guinea. *Am Nat*, 125: 747-768, 1985.
4. Eaves LJ, Long J, Heath AC: A theory of developmental change in quantitative phenotypes applied to cognitive development. *Behav Genet*, 16: 143 – 162, 1986.
5. Long JC, Naidu KM, Gershowitz H, Johnson P, Mohrenwieser H, Smouse PE, Wood JW: Population structure and genetic characteristics of Gainj and Kalam speakers of the New Guinea highlands. *Am J Phys Anthropol*, 70: 75-96, 1986.
6. Smouse, PE, Long JC, Sokal RR: Multiple regression and correlation extensions of the Mantel test of matrix correspondence. *Syst Zool*, 35: 627-632, 1986.
7. Long JC: The structure of allelic correlations in Gainj and Kalam speakers of highland New Guinea. I. Estimation and interpretations of Wright's F-statistics. *Genetics*, 112: 629-647, 1986.
8. Long, JC, Smouse PE, Wood JW: The structure of allelic correlations in Gainj and Kalam speakers of highland New Guinea. II. Genetic distances between population subdivisions. *Genetics*, 117: 273 – 283, 1987.
9. Long JC, Nance WE, Waring P, Burmeister JA, Ranney RR: Early Onset Periodontitis: A comparison and evaluation of two proposed modes of inheritance. *Genetic Epidemiology*, 4: 13-24, 1987.
10. Long JC: The uses of molecular biology: Understanding the basis of disease, determining evolutionary pathways, and other applications. *Am J Hum Biol* 1: 505-507, 1989.
11. Trinkaus E, Long JC: Species attribution of the Swartkrans member 1 first metacarpals: SK 84 and SKX 5020. *Am J Phys Anthropol* 83: 419-424, 1990.
12. Long JC, Chakravarti A, Boehm CD, Antonarakis S, Kazazian HH: Phylogeny of human  $\beta$ -globin haplotypes and its implications for recent human evolution. *Am J Phys Anthropol* 81: 113-130, 1990.

13. Long JC: The genetic structure of admixed populations. *Genetics*, 127: 417-428, 1991.
14. Long JC, Williams RC, McAuley JE, Medis R, Partel R, Tregellas WM, South S, Rea AE, McCormick SB, Iwaniec U: Genetic variation in Arizona Mexican Americans: Estimation and interpretation of admixture proportions. *Am J Phys Anthropol* 84: 141-157, 1991.
15. Franciscus RG, Long JC: Variation in human nasal height and breadth. *Am J Phys Anthropol* 85: 419-428, 1991.
16. Smouse PE, Long JC: Matrix correlation analysis in anthropological/genetic context: An expository review. *Yearbook of Physical Anthropology* , 35:187-213, 1992.
17. Williams RC, Knowler WC, Pettitt DJ, Long JC, Rokala DA, Polesky HF, Hackenberg RA, Steinberg AG, Bennett PH: Tracing the origin of european admixture in the Gila River Indian Community of Arizona: A union of genetics and demography. *Am J Hum Genet*, 51: 101-110, 1992.
18. Long JC: Human molecular phylogenetics. *Annu Rev Anthropol* 22: 251-272, 1993.
19. Goldman, D. Brown, GL, Albaugh, B, Robin, R, Goodson, S, Trunzo, M, Akhtar, L, Lucas-Derse, S, Long, J, Linnoila, M, Dean, M: DRD2 dopamine receptor genotype, linkage disequilibrium and alcoholism in American Indian and other populations. *Alcohol Clin Exp Res*, 17: 199-204, 1993.
20. Novoradovsky A, Tsai S-J L, Goldfarb L, Peterson R, Long JC, Goldman D: Mitochondrial aldehyde dehydrogenase polymorphism in Asian and American Indian populations: detection of new ALDH2 alleles. *Alcohol Clin and Exp Res* 19: 1105-1110, 1995.
21. Long JC, Williams RC, Urbanek M An E-M algorithm and testing strategy for multiple locus haplotypes. *Am J Hum Genet.* 56: 799-810, 1995.
22. Urbanek M, Goldman D, Long JC The apportionment of dinucleotide repeat diversity in Native Americans and Europeans: a new approach to measuring gene identity reveals asymmetric patterns of divergence. *Mol Biol Evol* 13: 943-953, 1996.
23. Ricketts MH, Goldman D, Long JC, Manowitz P: Arylsulfatasae A pseudodeficiency-associated mutations: Population studies and identification of a novel haplotype. *Am. J. Med. Genet. (Neuropsychiatric Genetics)* 67: 387-392, 1996.
24. Bergen AW, Kokoszka J, Peterson RJ, Long JC, Linnoila M, Goldman D: Ala6Val and Asn40Asp variants of the human  $\mu$ -opioid receptor gene: lack of association with alcohol and drug dependence. *Molecular Psychiatry*, 2: 490-449, 1997.

25. Karafet, T, Zegura, S, Vuturo-Brady, J, Posukh, O, Osipova, L, Wiebe, V, Romero, F, Long, JC, Harihara, S, Feng, J, Bumbein, D, Gerelsaikhan, T, Omoto, K, Hammer, MF: Male-mediated migrations across the Bering Strait *Am J Phys Anthropol* 102: 301-314, 1997.
26. Goldman, D, Urbanek, M, Guenther, D, Robin, R, Long, JC: The dopamine D2 receptor: linkage and association of a functional allele [Ser311Cys] and other D2DR markers to alcoholism, substance abuse, and schizophrenia in Southwestern American Indians. *Am J Med Genet. (Neuropsychiatric Genetics)* 74:386-394, 1997.
27. Sugg D, Chesser, RK Long JC: Assessment of genetic information in morphometric traits: geographic patterns and evolutionary interpretations. *Journal of Mammalogy*, 78(2) 405-416, 1997.
28. Lappalainen J, Long JC, Eggert M, Ozaki N, Robin RW, Brown GL, Naukkarinen H, Virkkunen M, Linnoila M, Goldman D: Linkage of antisocial alcoholism to the serotonin 5-HT1B receptor gene in two populations. *Arch Gen Psychiatry*, 55(11):989-94, 1998.
29. Mazzanti CM, Lappalainen J, Long JC, Naukkarinen H, Eggert M, Virkkunen M, Linnoila M, Goldman D: Role of the serotonin transporter promoter polymorphism in anxiety-related traits. *Arch Gen Psychiatry*, 55:936-940, 1998.
30. Nielsen DA, Virkkunen M, Lappalainen J, Eggert M, Brown GL, Long JC, Goldman D, Linnoila M: A tryptophan hydroxylase gene marker for suicidality and alcoholism. *Arch Gen Psych* 55: 593-602, 1998.
31. Goldman D, Urbanek M, Guenther D, Robin R, Long JC: A functionally deficient DRD2 variant [Ser311Cys] is not linked to alcoholism and substance abuse. *Alcohol* 15: 1-6, 1998.
32. Kittles RA, Perola M, Peltonen L, Bergen AW, Aragon RA, Virkkunen M, Linnoila M, Goldman D, Long JC: Dual origins of Finns revealed by Y chromosome haplotype variation. *Am J Hum Genet.* 62: 1171-1179, 1998.
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