
BIOGRAPHICAL SKETCH

NAME Holly M. Mortensen	POSITION TITLE Research Biologist
eRA COMMONS USER NAME	

EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Maryland (College Park, MD)	Ph.D.	2008	Human Genetics
University of Maryland (College Park, MD)	M.S.	2005	Biology
Stanford University (Stanford, CA)	M.S.	2001	Anthropological Genetics
University of California (Davis, CA)	B.S.	1999	Biological Anthropology

A. POSITIONS and HONORS**Research and Professional Experience:**

- 2008-Present Research Biologist, National Center for Computational Toxicology
Office of Research and Development U.S. Environmental Protection Agency,
Research Triangle Park, NC
- 2008-2001 Graduate Research Assistant, Department of Biology,
University of Maryland, College Park MD
(Advisors: Sarah A. Tishkoff)
- 2006 HHMI Teaching and Learning Fellow: Course Development in Bioinformatics
- 1999-2001 Graduate Research Assistant, Departments of Genetics and Anthropological Sciences,
Stanford University, Stanford, CA
(Advisors: Joanna Mountain, Luca Cavalli-Sforza)
- 1997-1999 Research Assistant, Department of Biological Anthropology, University of California, Davis, CA
(Advisor: David Glenn Smith)

Professional Societies and Affiliations:

- 2008-present Society of Toxicology (SOT)
- 2005-present American Association for the Advancement of Science (AAAS)
- 2004-present American Association of Anthropological Genetics (AAAG)
- 2001-present American Society of Human Genetics (ASHG)
- 1999-present American Association of Physical Anthropologists (AAPA)

Honors and Awards:

- 2006 Invited Participant, Wellcome Trust Advanced Course: Working with the HapMap
Wellcome Trust Genome Campus, Hixton, Cambridge, UK
- 2006 Howard Hughes Medical Institute Teaching and Learning Fellowship
University of Maryland, College Park, MD
- 2004 AAAG Student Prize for Paper Presentation
AAPA yearly meeting, Tampa, FL
- 2004 Invited Participant: Course on Molecular Evolution
Marine Biological Laboratory, Woods Hole, MA
- 2001-2008 NSF-IGERT Fellowship in Hominid Paleobiology
- 2001-2003 Eugenie Clark Fellowship

Mortensen, Holly M.

- 2002 University of Maryland, College Park, MD
Jacob K. Goldhaber Travel Grant
- 2001 University of Maryland, College Park, MD
Ford Foundation Graduate Research Grant for Ecological Research
Stanford University, Stanford, CA
- 2000 Mary M. Wohlford Fellowship, Morrison Institute for Population and Resource Studies
Stanford University, Stanford, CA
- 1999-2001 Foreign Language Area Studies (FLAS) Fellowship, Committee for African Studies
Stanford University, Stanford, CA
- 1994-1996 Cal Grant A, California Student Aid Commission, CA

Teaching Experience:

- 2006 Teaching Assistant, HHMI Course Development in Bioinformatics
University of Maryland, College Park, MD
- 2002-2003 Teaching Assistant, Introductory Genetics
University of Maryland, College Park, MD
- 2004 Teaching Assistant, Principles of Biology
University of Maryland, College Park, MD
- 2000 Teaching Assistant, Laboratory Research Methods in Anthropological Genetics
Stanford University, Stanford, CA
- 1997 Undergraduate Teaching Assistant, Human Evolutionary Biology
University of California, Davis, CA

B. SELECTED PUBLICATIONS

- Tishkoff, S.A. Reed, F.A., Friedlaender, F.R., Ehret, C., Ranciaro, A., Froment, A., Hirbo, J.B. Awomoyi, A.A., Bodo, J., Doumbo, O., Ibrahim, M., Juma, A.T., Kotze, M.J., Lema, G., Moore, J.H., **Mortensen H.M.**, Nyambo, T.B., Omar, S.A., Powell, K., Pretorius, G.S., Smith, M.W., Thera, M.A., Wambebe, C., Weber, J.L., Williams, S.M. May 2009, The Genetic Structure and History of Africans and African Americans, *Science* 324 (5930): 1035-1044.
- Mortensen, H.M.**, July 2008, Genetic Variation at the N-Acetyltransferase (NAT) Genes in Global Human Populations, Doctoral Dissertation, Department of Biology, University of Maryland, College Park.
- Tishkoff, S. A., Gonder, M.K., Henn, B.M., **Mortensen, H.M.**, Fernandopulle, N., Gignoux, C., Lema, G., Nyambo, T. B., Underhill, P.A., Ramakrishnan, U., Reed, F. A., Mountain, J. L., July 2007, History of click-speaking populations of Africa inferred from mtDNA and Y chromosome genetic variation, *Molecular Biology and Evolution*, 24 (10): 2180-2195.
- Gonder, M. K., **Mortensen, H.M.**, Reed, F.A., Tishkoff, S.A., 2007, Whole mtDNA Genome Sequence Analysis of Ancient African Lineages, *Molecular Biology and Evolution* 24 (3):757-768.
- Tishkoff, S. A., Reed, F. A., Ranciaro, A., Voight, B. F., Babbitt, C. C., Silverman, J. S., Powell, K., **Mortensen, H. M.**, Hirbo, J. B., Osman, M., Ibrahim, M., Omar, S. A., Lema, G., Nyambo, T. B., Ghorri, J., Bumpstead, S., Pritchard, J. K., Wray, G. A., and Deloukas, P., 2007, Convergent adaptation of human lactase persistence in Africa and Europe, *Nature Genetics* 39 (1):31-40.
- Knight, A., Underhill, P.A., **Mortensen, H.M.**, Zhivotovsky, L.A., Henn, B.M., Ruhlen, M., Mountain J.L., 2003, African Y Chromosome and mtDNA Divergence Provides Insight into the History of Click Languages. *Current Biology*, 13: 464-473.
- Malhi, R.S., **Mortensen, H.M.**, Eshleman, J.A., Kemp, B.M., Lorenz, J.G., Kaestle, F. A., Johnson, J.R., Gorodezky, C., Smith, D.G., 2003, Native American mtDNA Prehistory in the American Southwest. *American Journal of Physical Anthropology*. 120: 108-124.
- Mortensen, H.M.**, 2001, Evidence of African Prehistory: Y Chromosome and mtDNA Analysis of Four Linguistically Divergent African Groups (the Hadzabe, Datoga, Irawq, and Sukuma of North-eastern Tanzania). MS Thesis. Department of Anthropological Sciences, Stanford University.

Mortensen, Holly M.

C. SELECTED PRESENTATIONS

- Mortensen, H.M.** (May 2009) Mapping Human Toxicity and Disease Pathways in ToxCast™. ToxCast Data Analysis Summit. US EPA Research Triangle Park, NC. USA. (presentation).
- Mortensen, H.M.**, Dix, D., Houck, K., Kavlock, R., Judson, R. (May 2009) Using the ToxMiner™ Database for Identifying Disease-Gene Associations in the ToxCast™ Dataset. National Academy of Science. Symposium on Toxicity Pathway-Based Risk Assessment: Preparing for Paradigm Change. Washington, DC. USA (poster).
- Houck, K., **Mortensen, H.M.**, Witt, K.L., Menghang, X. (April 2009) Call for Nominations of Quantitative High-Throughput Screening Assays from Relevant Human Toxicity Pathways. The Society for Biomolecular Screening, Lille, France.
- Mortensen, H.M.**, Dix, D., Houck, K., Kavlock, R., Shah, I., Judson, R. (March 2009) The ToxCast™ Pathway Database: Identifying Toxicity Signatures and Potential Modes of Action from Chemical Screening Data. Society of Toxicology, Baltimore, MD, USA (poster).
- Mortensen, H.M.**, Awadalla, P., Tishkoff, S.A. (October, 2007) The Role of Natural Selection in Shaping Genetic Variation at the N-acetyltransferase (NAT) Genes in African and Global Populations. American Society of Human Genetics, San Diego, CA, USA (poster)
- Mortensen, H.M.**, Gonder, M. K., Tishkoff, S.A. (April, 2004) Ancient Migrations and Population Expansions in East Africa: Genetic Evidence for Tanzanian Prehistory. American Association of Physical Anthropology. Tampa, FL, USA (presentation)
- Mortensen, H.M.**, Gonder, K., Tarazona-Santos, E., Hirbo, J., Powell, K., Knight, A., Mountain, J., Tishkoff, S.A, 2003, Genetic History of Hunting and Gathering Populations of Tanzania. American Association of Physical Anthropology, Tempe, AZ, USA (poster)
- Powell, K.B, **Mortensen, H.M.**, Tishkoff, S.A. , 2003, The evolution of Lactase Persistence in African Populations. American Association of Physical Anthropology, Tempe, AZ, USA (poster)
- Mortensen, H.M.**, Gonder, M. K., Tarazona-Santos, E., Hirbo, J. B., Mountain, J., Tishkoff. S. A., 2002, Genetic history of linguistically diverse Tanzanian populations inferred from mtDNA. American Society of Human Genetics yearly meeting, Baltimore, MD, USA (poster)