

Human Evolution Education Resources - Unannotated

May 4, 2011

Please Note:

- Most of these resources are free, but some are not (books, "apps," etc.).
- I have no highly vested interest in promoting any of these sources, except for my desire to see quality educational materials utilized for the benefit of science education in America and around the globe. Please consider supporting one of the not-for-profit organizations to which I link and/or your local PBS television station or, what the heck, National Public Radio.
- A number of these resources cover multiple subtopics, but I tried to avoid redundant listings, so be sure to look through all the sections for what you need.
- Click on the [hyperlinks](#) to open websites *or* copy and paste the static URLs into your browser's address bar (all websites accessed May 1-4, 2011, unless otherwise indicated).
- I've included a lot of Twitter handles (e.g., @paleophile) - to learn more about Twitter, scroll down to the "Human Evolution in the News" section. To read the Tweets of individuals/organizations on Twitter, go to <http://twitter.com/handle> (e.g., <http://twitter.com/paleophile>) or "follow" them on Twitter if you are a registered Twitter user. (*FYI, The Twitter name, logo, Twitter T, Tweet, and Twitter bird are trademarks of Twitter, Inc. in the United States and other countries.)

GENERAL SCIENCE/HUMAN EVOLUTION RESOURCES

[The David H. Koch Hall of Human Origins](#) Smithsonian Institution, National Museum of Natural History (NMNH) @HumanOrigins

[Anne and Bernard Spitzer Hall of Human Origins](#) American Museum of Natural History (AMNH) @AMNH

[PBS NATURE](#) @PBSNature

[PBS NOVA](#) and now there is also [PBS NOVA Evolution \(beta stage\)](#) @novapbs

[PBS Evolution](#)

[BBC - Science and Nature](#) @BBCNature

[ARKive](#) @arkive

[TED- Ideas Worth Spreading](#) @TEDNews or @TEDtalks]

[California Academy of Sciences](#) (CAS) and [CAS Discover Science](#) [@calacademy]

[University of California Museum of Paleontology](#) (UCMP) ["Like" them on Facebook.]

[Howard Hughes Medical Institute BioInteractive](#) (HHMI) [@HHMINews]

[SERC Portal for K-12 Educators](#) The Science Education Resource Center (SERC) is an office of Carleton College.

[National Center for Case Study Teaching in Science](#)

PHYSICAL ANTHROPOLOGY LABORATORY RESOURCES

[Virtual Laboratories for Physical Anthropology 4.0](#) Kappelman, J. Online or CD-Rom-based learning environment.

[France Casting](#) Museum Quality Replicas

[3D Collections](#) Smithsonian's National Museum of Natural History Human Origins Program, 3D Fossil Collection.

HUMAN GENETICS

Books:

Alexander, D. R. [The Language of Genetics: An Introduction](#). Templeton Press, 2011.

Ridley, M. [Genome: The Autobiography of a Species in 23 chapters](#). Harper Collins, 1999.

Web materials:

[Cold Spring Harbor Laboratory's Dolan DNA Learning Center](#)
[Scitable Genetics Topic Room](#) Nature Education
[Scitable Essentials of Genetics eBook](#) Nature Education
[Human Genome Resources](#) National Center for Biotechnology Information (NCBI)
["Making sense of ancient hominin DNA"](#) UCMP, on the Understanding Evolution website.
[Ancient DNA and Neandertals](#) NMNH
[Human Skin Color Variation](#) NMNH
[National Center for Case Study Teaching in Science](#) National Science Foundation.

FORM AND FUNCTION OF THE HUMAN BODY

Web materials:

[eSkeletons](#) The University of Texas at Austin
[AnatomyLab.com](#)
[The Body Interactives](#) BBC Science
[Genes to Cognition Online 3D Brain Anatomy](#)
[The Zoo of You](#) PBS NOVA Evolution
[Darwin's Birthday Suit: The Evolution of Human Skin and Skin Color](#) Lecture, Jablonski, N. (Feb. 10, 2009) Audio podcast (.mp3 stream/download) and written transcript.
[McGraw Hill's Anatomy & Physiology Revealed](#) in partnership with the University of Toledo. Online or CD-Rom-based learning environment.

NON-HUMAN PRIMATES

Web resources:

[Arkive.org](#)
[Animal Diversity Web](#) University of Michigan Museum of Zoology
[Primate Info Net](#) Library and Information Service of the National Primate Research Center, University of Wisconsin-Madison
[African Primates](#) Online journal.
Various organizations dedicated to ape conservation: [Center for Great Apes](#), [the Jane Goodall Institute](#), [The Orangutan Land Trust](#), [Bonobo Conservation Initiative](#), [International Gorilla Conservation Programme](#), [The Dian Fossey Gorilla Fund International](#)

GEOLOGY/PALEONTOLOGY

Web resources:

[USGS Education](#)
[Teach the Earth](#) SERC
[Earth: A dynamic structure Short Course](#) UCMP
[Understanding Geologic Time](#) UCMP
[Deep time in perspective: An animated fossil hominin timeline](#) Dunsworth, H. M. *PaleoAnthropology* 2011: 13-17. [This link actually takes you to a post (April 8, 2011) on the blog, "The Mermaid's Tale," where the author of the deep time movie discusses the content of and background for this online, animated demonstration of deep time.]
[The Paleontology Portal](#) UCMP
[Dating](#) NMNH
[Adventures in the Rift Valley: Interactive](#) NMNH

SYSTEMATICS/CLASSIFICATION

Web resources:

[The history of life: Looking at the patterns](#) UCMP

[A name by any other tree](#) Thanukos, A. *Evolution: Education and Outreach* (April 18, 2009) [Available *free* as a .pdf at <http://www.springerlink.com/content/k176638503p63017/fulltext.pdf>]

[Travels in the Great Tree of Life](#) Yale University Peabody Museum of Natural History

[Time Tree](#) ASU Biodesign Institute/Penn State

[Taxonomy Browser](#) NCBI

EVOLUTION

Book:

Zimmer, C. [The Tangled Bank: An Introduction to Evolution](#) Roberts & Company Publishers, 2010

Web resources:

[Understanding Evolution](#) UCMP

[PBS Evolution](#)

[National Center for Science Education](#)

[The National Evolutionary Synthesis Center Education Resources](#) NESCent is jointly operated by Duke University, UNC at Chapel Hill, and North Carolina State University

[Evolution 3rd Ed.](#) Ridley, M., Blackwell Publishing, 2003

THE HOMININ FOSSIL RECORD

Books:

Johanson, D. C. & Wong, K. [Lucy's Legacy: The Quest for Human Origins](#). Harmony Books, 2009

Johanson, D. C. & Edgar, B. with David Brill photography. [From Lucy to Language](#). Simon & Schuster, updated 2006.

Potts, R. & Sloan, C. [What Does It Mean To Be Human?](#) National Geographic, 2010.

[Physical Anthropology Booklist.pdf](#) [Here is a list of other books.]

Web resources:

[Human Evolution Timeline Interactive](#) NMNH

[The Human Lineage Through Time](#) *Becoming Human*, Institute of Human Origins (IHO), Arizona State University

[Human Family Tree](#) NMNH

[Hominin Fossil, Primate and Artifact Collections \(2D and 3D\)](#) NMNH

[Human Evolution: The fossil evidence in 3D](#) Walker, P. L. & Hagen, E. H. UC Santa Barbara.

[eLucy](#) The University of Texas at Austin

[Becoming Human](#) Institute of Human Origins, Arizona State University

[Discovering Ardi](#) Discovery Channel

HUMAN EVOLUTION IN THE NEWS

[[Cambridge Science Festival](#) Not familiar with web blogs or Tweets? Watch this Cambridge Science Festival video podcast (May 3, 2011) to hear some of the bloggers listed below talk about how blogs, tweets, and social media are changing science writing.]

ScienceBlogs

[The Loom](#) (a Discover blog) Carl Zimmer [@carlzimmer]

[Not Exactly Rocket Science](#) (a Discover blog) Ed Yong [@edyong209]

[Tooth and Claw](#) (a PLoS blog) Hillary Rosner [@hillaryrosner]

[John Hawks Weblog](#) (blog) Dr. John Hawks [@johnhawks]

[Lawn Chair Anthropology](#) (blog) Graduate students at the University of Michigan in biological anthropology

[Afarensis: Anthropology, Evolution and Science](#) (blog) Timothy S. McDougald

[A Very Remote Period Indeed](#) (blog) Dr. Julien Riel-Salvatore

[Anthropology in Practice](#) (blog) Krystal D'Costa [[@anthinpractice](#)]
[Kathryn B. H. Clancy, PhD](#) [[@KateClancy](#)]
[Kate Wong](#) [[@katewong](#)]
[Ann Gibbons](#)
[KQED Science](#) [[@KQEDscience](#)]
[ScienceDaily](#) [[@sciencedaily](#)]
[LiveScience](#) [[@LiveScience](#)]
[American Scientist Magazine](#) [[@AmSciMag](#)]
[Scientific American Newsletters](#) [[@sciam](#)]
[Human Origins Program Events](#) NMNH [[@HumanOrigins](#)]

PROFESSIONAL SOCIETIES/ASSOCIATIONS/FOUNDATIONS

[Paleoanthropology Society](#)
[American Anthropological Association](#) [[@AmerAnthroAssoc](#) and [@AAAPubs](#)]
[The Leakey Foundation](#) [[@TheLeakeyFndtn](#)]
[American Association for the Advancement of Science](#) [[@AAAS_News](#)]
[National Science Foundation](#) [[@NSF](#)]
[Society of Vertebrate Paleontology](#) [[@SVP_vertpaleo](#)]
[National Center for Science Education](#) [[@NCSE](#)]
[The Society for Integrative & Comparative Biology](#)
[The Society for the Study of Evolution](#)
[American Institute of Biological Sciences](#) [[@AIBSbiology](#)]
[National Geographic](#) [[@NatGeoScience](#), [@NatGeoNewsWatch](#), [@NatGeoEducation](#)]

SCIENTIFIC JOURNALS

Open Access Web Journals:

[Directory of Open Access Journals](#)
[BMC Genomics](#)
[BMC Evolutionary Biology](#)
[PLoS Genetics](#)
[PLoS Biology](#)
[Trends in Evolutionary Biology](#)
[Genome Biology and Evolution](#)
[Ideas in Ecology and Evolution](#)
[Journal of STEM Education: Innovations and Research](#)

Restricted Access Journals:

[Scientific Journals List.pdf](#)

PALEOANTHROPOLOGY/ARCHAEOLOGY FIELD SCHOOLS

The Smithsonian National Museum of Natural History (NMNH) has compiled a list [here](#).