

Ross Douglas Earle MacPhee

Don't bring extinct creatures back to life (iq2.debate, 01/2019)

<https://www.intelligencesquare.us.org/debates/dont-bring-extinct-creatures-back-life>

End of the Megafauna (AMNH SciCafe lecture, 12/2018): <https://www.youtube.com/watch?v=CGYJgYZrMcE>

Proceed As If This Had Not Happened (lecture on Scott/Amundsen race to the South Pole, NSF headquarters, 2011):

http://www.nsf.gov/news/special_reports/livingsouthpole/allvideos.jsp

Reviving the Mammoth? Science, Ethics, and the Conflicted Promise of De-extinction (2012)

<http://www.youtube.com/watch?v=udOWjgMDqhs>

For kids: <http://www.amnh.org/ology/features/ologist/macphee/>

Division of Vertebrate Zoology/Mammalogy
request

American Museum of Natural History

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BIOGRAPHICAL SKETCH

Prior to joining the American Museum of Natural History in as Curator, Division of Vertebrate Zoology/Mammalogy in 1988, MacPhee was an Associate Professor of Anatomy in the Duke University Medical Center. He has also taught at Columbia, New York University, and several universities in Canada. MacPhee's research interests span the evolutionary history of mammals, island biogeography, and the biology and causation of extinction. He has led or participated in more than 50 scientific expeditions in 15 countries, including both polar regions. Recent fieldwork venues include Yukon, James Ross Group (West Antarctica), and Argentina. He lives in Manhattan with wife, professional archivist Clare Flemming.

SUMMARY OF ACADEMIC CAREER

Education—B.A. (Honours with 1st-Class Honours) University of British Columbia, Vancouver, Canada, 1969; Ph.D. (Biological Anthropology) University of Alberta, Edmonton, Canada, 1977

Academic Positions—Assistant Professor of Anatomy (1979-1985) and subsequently Associate Professor of Anatomy with tenure (1985-1988), Duke University Medical Center; Curator of Vertebrate Zoology (Mammalogy), American Museum of Natural History since 1988, with tenure; Chairman, Department of Mammalogy, 1993-1999. Adjunct Associate Professor of Anthropology, Stony Brook (University 1989—); Adjunct Professor of Anthropology, City University of New York (1991—); Adjunct Senior Research Scientist, CERC, Columbia University (1995-2012); Adjunct Professor of Ecology, Evolution, and Environmental Biology, Columbia University (Spring, 2004); Visiting Instructor of Cell Biology,

New York University Medical Center (2005-2011); **Fellow**, American Association for the Advancement of Science (1991–)

Major Editorships—**Series Editor**, *Advances in Primatology*, Plenum (1990-1997); **Series Editor**, *Advances in Vertebrate Paleobiology*, Plenum/Kluwer (1997-2000); **Series Editor**, *Vertebrate Paleobiology and Paleoanthropology*, Springer (2003-2008); **Editorial Advisory Board**, *Vertebrate Paleobiology and Paleoanthropology*, Springer (2008-date); **Associate Editor**, *Journal of Human Evolution* (1990-1993)

Curated Temporary Exhibitions—*Cuba: Nature of an Island/Cuba: Naturaleza de una Isla* (April 1993–March 1994); *Endangered! Exploring a World at Risk* (8 March–1 September, 1996); *The Endurance: Shackleton's Legendary Antarctic Expedition* (10 April–11 October, 1999); *The Horse* (17 May 2008–4 January 2009) <http://www.amnh.org/exhibitions/horse/?section=multimedia#>; *Race to the End of the Earth* (29 May 2010–3 January 2011) <http://www.amnh.org/exhibitions/race>

Curated Permanent Exhibitions—**AMNH Hall of North American Mammals** (2011-2012 renovation, reopened 27 October 2012); **AMNH Hall of Asia (former Halls of Asian Mammals and of Asian Peoples)** (2011-2013, renovation pre-planning)

RESEARCH & TEACHING INTERESTS

Mammalian systematics; endangerment and extinction; island biogeography; mammalian paleontology; comparative morphology; theory and practice of systematic biology

JOB HISTORY

Visiting Assistant Professor, University of Winnipeg, Department of Anthropology (1977-78); physical anthropology

Visiting Assistant Professor, University of Manitoba, Department of Anthropology (1978-79); physical anthropology and archeology

Assistant Professor, Duke University, Department of Anatomy (1979-1985); human gross anatomy, primate evolution

Associate Professor, Duke University, Department of Anatomy (1985-1988); human gross anatomy, primate evolution (tenured, 1985)

Curator, American Museum of Natural History, Department of Mammalogy (1988–); mammalian evolution and systematics (tenured, 1989)

Chairman, Department of Mammalogy, American Museum of Natural History (1993-2000)

OTHER ACADEMIC POSITIONS AND ELECTIONS

Fellow, American Association for the Advancement of Science (1991–)

Adjunct Professor, Columbia University, Fall 2004, Department of Ecology, Evolution, and Environmental Biology, EEEB G4205 “Extinction Science”

Adjunct Senior Research Scientist, Columbia University, CERC, (1995–)

Adjunct Associate Professor, Stony Brook University, Department of Anthropology and Doctoral Program in Anthropological Sciences (1989–)

Adjunct Professor, CUNY Doctoral Program in Anthropology, Graduate Center, (1991–)

Visiting Instructor, New York University School of Medicine, Department of Cell Biology (2005-2010)

Research Associate, Carnegie Museum of Natural History, Pittsburgh (1994-2005)

Associate, Consortium for Conservation Medicine (Wildlife Trust) (2002-2010)

Steering Committee Member, Committee on Recently Extinct Species (CREO) (1998-2008);

Member, IUCN/WCU Advisory Committee on Historical Extinctions (2006-2010)

HONORS

Plenary Speaker, International Congress of Antarctic Earth Science XI, Edinburgh, Scotland, UK (July 2011); **CINE**

Golden Eagle award, 2010, for “Return from the Pole” video in AMNH *The Race to the Ends of the Earth* exhibition;

President, American Friends of the Hakluyt Society (2006-2008). Funds scholarly publication of early works relevant to the history of exploration; **Distinguished Lecturer**, UMEB (Environmental Biology) Program, Florida International University (Sept. 14, 2002); **Keynote Speaker**, Annual Meeting of the Pennsylvania Academy of Science (Wyomissing, PA, April 14, 2000); **Cutting Edge Speaker**, Wildlife Disease Association of the American Association of Wildlife Veterinarians (Athens, Georgia, August 9, 1999); **CINE Golden Eagle award**, 1999, for videos in AMNH *Endurance*

exhibition: **Society for Environmental Design**, Honor Award (highest merit) (2000), for category “Exhibition Design/Museum Environments” (member of design team); **American Institute of Graphic Arts** “Communication Graphics 21” competition jury award (2000) for “Waves, sextant, and the *James Caird* from *Shackleton's Legendary Antarctic Expedition* interactive exhibition”; **Laureate** (with Manuel A. Iturralde-Vinent), 1997 Premio Anual, Academia de Ciencias

de Cuba [Cuban national award for outstanding scientific research]; 2005 Agencia de Medio Ambiente, for “Origen y evolución del Caribe y sus biotas marinas y terrestres”

FIELDWORK VENUES

West Indies: Anguilla 1988, 1989, 1991, 1995; Cuba 1990-2000 (quasiannually); Dominican Republic 1989, 1996; Jamaica 1981, 1993, 1995, 1996, 1999, 2000; Navassa 1999; Puerto Rico 1987, 1988, 1990, 1994; **Madagascar:** 1983-1985, 1987, 1989; **Europe:** Messel (Germany) 1986; Mallorca 1995; Crete 2012, 2013; **Asia:** Borneo (Indonesia) 1989, 1992; Shanghuang (China) 1994; Gujarat (India), 2015; **South America:** Trinidad 1982; Patagonia (Chile & Argentina) 2001; Mendoza (Argentina) 2015, 2017, 2019; **Arctic North America:** Banks I., NWT (Canada) 2004; Yukon 2008, 2014, 2015; Alaska, 2018; Ellesmere I., Nunavut (Canada) 2019; **Russia:** Wrangel I. 1998; Sakhalin I. 2002; Taimyr, 2000, 2001, 2005, 2006; **Antarctica:** South Shetland Is. (Livingstone I.) 2007, 2009; James Ross Group (James Ross, Seymour & Vega Is.) 2008, 2009, 2010, 2011, 2016

US FEDERAL GRANTS IN REVIEW – PRINCIPAL OR CO-PRINCIPAL INVESTIGATOR

NSF ICBR 2015389, ICBR: Establishment of an ancient DNA and paleoproteomics laboratory at the American Museum of Natural History (\$469,277 requested; 6/15/20/xx-xx-xx; Cheryl Hayashi PI (co-PIs Ross MacPhee & Anthony Caragiulo)

CURRENT US FEDERAL GRANTS – PRINCIPAL OR CO-PRINCIPAL INVESTIGATOR

NSF DEB 1547414, EAGER: Paleontological Proteomics Initiative: Developing theory and applications in molecular paleontology (\$284,000; 07/2015-06/2021; now in no-cost extension), PI (M Collins, K Penkman, co-PIs)

CURRENT NONFEDERAL GRANTS – PRINCIPAL OR CO-PRINCIPAL INVESTIGATOR

Explore21 (AMNH), Seeing the future from the past: High Arctic biota and environment in the “warm” Pliocene, 3.5 million years ago (field support for molecular and paleontological investigations on Ellesmere Island, Nunavut, Canada) (\$85,500; 2019-2021, co-PI with Meng Jin)

The Back Home Project, anonymously funded (\$235,000; 2020-2021) for molecular paleontological investigation of the lineage of *Equus caballus*, in collaboration with Beth Shapiro (University of California, Santa Cruz)

PREVIOUSLY AWARDED GRANTS – US FEDERAL; PRINCIPAL OR CO-PRINCIPAL INVESTIGATOR

NSF OPP ANT 1142052, Collaborative Research: Late Cretaceous-Paleogene vertebrates from Antarctica: implications for paleobiogeography, paleoenvironment, and extinction in Polar Gondwana, Co-PI (M Lamanna, PI) (\$51,000 of \$314,000 total for collaboration)

NSF OPP ANT 1026397, Vertebrate paleontology of Livingston Island, South Shetlands, Antarctica (supplemental award to NSF OPP ANT 0636639; \$17,000; 2010), PI

NSF OPP ANT 0925367 Collaborative Research: Austral Portals: Tectonics, Paleogeography and Biogeography (\$30,600; 09/01/2009-09/01/2012), PI (D Barbeau, co-PI)

NSF OPP ANT 0636639, Vertebrate paleontology of Livingston Island, South Shetlands, Antarctica (\$79,033; 2007-2009), PI

NSF OPP ANS 0117400, Megafaunal mammal genetics and extinction dynamics in the late Pleistocene: testing the hyperdisease hypothesis (\$473,067; 2001-2007), PI (AD Greenwood & R DeSalle, co-PIs)

NSF OPP 9807670, SUGR: Mammalian extinction dynamics in the late Quaternary of Siberia and the hyperdisease hypothesis (\$50,000; 1998-1999), PI

NSF BSR 902002, Cenozoic vertebrate paleontology and biogeography of Cuba and Hispaniola (\$107,000; 1991-1996), PI (ML Smith, co-PI)

NSF BSR 902002, supplemental Research Opportunity Award (1996), to support H Whidden’s investigations of Antillean insectivores

NSF BSR 8708250, Human settlement, environmental change, and megafaunal extinctions in Madagascar (\$320,000; 1987-1990), PI (RE Dewar, DA Burney, & NA Wells, co-PIs)

NSF BSR 8501079, Extinction, causation, and explicit tests: the Holocene megafaunal extinctions in Madagascar (\$160,000; 1985-1987), PI (RE Dewar & NA Wells, co-PIs)

NSF DEB 8208797, Comparative embryology of the basicranium and primate relationships (\$195,000; 1982-1985), PI (M Cartmill, co-PI)

NSF DEB 8021735, Biogeographic and systematic studies of extinct Antillean land mammals (\$18,338; 1981-1982), PI

PREVIOUSLY AWARDED GRANTS – NONFEDERAL

- National Geographic Society 2633-83**, Pre-Holocene mammalian paleontology of Madagascar: the absent record (\$21,190; 1983-1984), PI
- National Geographic Society 2826-84**, Extinct mammals of Madagascar: extending the record (\$25,072; 1984-1985), PI
- Philip M. McKenna Foundation**, Early land mammals of Puerto Rico (\$3,400; 1987-1988), PI
- Duke University Research Council**, Quaternary extinctions and environmental change in Puerto Rico (\$4,934; 1987-1988), co-PI (with DA Burney)
- Philip M. McKenna Foundation**, Origin of the vertebrate fauna of Hispaniola (\$1,980; 1990), co-PI (with ML Smith)
- Percy Sladen Memorial Fund**, Paleontological investigations in Anguilla, BWI (£500; 1990), co-PI (with DA McFarlane)
- Leakey Foundation**, The extinct platyrrhines of Cuba and Hispaniola (\$2500; 1990), PI
- Center for Biodiversity and Conservation** (American Museum of Natural History), Investigations of rare and extinct mammals of Hispaniola (\$24,000; 1996), PI
- Center for Biodiversity and Conservation (American Museum of Natural History)**, for “Short Course in Advanced Methods of Systematics,” conducted in La Habana, Cuba, January 1998 (\$27,000; 1998), PI
- Center for Biodiversity and Conservation (American Museum of Natural History)** (\$180,000; 1998-1999), for organizing CREO (Committee on Recently Extinct Organisms) and implementing research program on modern-era extinctions (with MJL Stiassny, R Tedford, & P Mikkelsen)
- Center for Environmental Research and Conservation (Columbia University)**, The determination of extinction across major taxonomic groups: convening a research team to evaluate criteria for consistent assessment of extinction evidence (\$12,000; 1999), co-PI (with W Hahn)
- Adler Fund**, Investigation of causes of megafaunal extinction (\$75,000; 1998-2000), PI
- Irene Diamond Fund**, Investigation of causes of megafaunal extinction (\$90,000; 1998-2001), PI
- National Geographic Society 6603-99**, Dawn of land mammals in West Indies: Seven Rivers, Jamaica (\$10,000; 2000-2001), PI
- Niarchos Foundation**, Support of Holarctic paleontological investigations (\$20,000; 2004-2005), PI
- Evelyn Stefansson Nef Foundation**, At the limit: woolly mammoth and other Pleistocene megafauna of the Canadian Arctic Archipelago (\$25,000; 2004-2005), PI
- Niarchos Foundation**, Support of paleontological investigations in Taimyr, Siberia (\$12,000; 2006-2007), PI
- Janet Asimov**, Support of extinction research (\$10,000; 2007)
- ARC-DP 0878604 (Australian Research Council Discovery Project)**, Pleistocene evolutionary dynamics and past environments of Siberia: Reconstructions using luminescence dating of ancient DNA sedimentary archives (requested \$A471,794; 2008-2011), Participating Investigator (Lee Arnold, Chief Investigator; H Poinar, Participating Investigator)
- The Andrew W. Mellon Foundation 41100635**, Re-imagining Asia: toward a 21st century presentation of culture, nature, and art (\$500,000, 1/1/2012-1/6/14); co-curators Laurel Kendall and Ross MacPhee (awarded “to the American Museum of Natural History, and the personnel...identified in this Proposal”)
- Niarchos Foundation**, "Exploring the Tertiary Biogeography of the Indian Subcontinent", support of paleontological investigations of Early Eocene amber- and vertebrate-bearing lignite localities in Gujarat, India \$17,320; 2014-2015), co-PI (with David Grimaldi)
- Anonymous**, Support of “Original Horse Project”, aDNA study of evolution of late Pleistocene horses in North America and eastern Asia, with a view to establishing lineage relationships of the domestic horse, *Equus caballus* (\$275,000; 2016-2018), co-PI with Beth Shapiro (University of California Santa Cruz)
- Neda De Mayo, in honor of William De Mayo** Support to sample horse fossils in Russia and China with a bearing on the process of evolution and domestication of *Equus caballus* (\$25,000; 2017)
- Explore21 (AMNH)**, Seeing the future from the past: High Arctic biota and environment in the “warm” Pliocene, 3.5 million years ago (field support for molecular and paleontological investigations on Ellesmere Island, Nunavut, Canada) (\$85,500; 2019-2021, co-PI with Meng Jin)
- The Back Home Project**, anonymously funded (\$235,000; 2020-2021) for molecular paleontological investigation of the lineage of *Equus caballus*, in collaboration with Beth Shapiro (University of California, Santa Cruz)

GRADUATE STUDENT COMMITTEES/PhD DEFENSES & POSTDOCTORAL ASSOCIATES

Grad Students: Jennifer White (PhD ‘93, SUNY Stony Brook, Department of Anatomical Sciences); Ines Horovitz (PhD ‘97, Stony Brook Univ., Department of Anatomical Sciences); Robert Asher (PhD ‘00, Stony Brook Univ., Department of Anatomical Sciences); Siobhan Cooke (PhD ‘11, Doctoral Program in Anthropology, Graduate Center, City University of New York); Anna Holden (PhD ‘18; RGGS); Julia Tejada Lara (PhD advisory committee, 2017-date; Columbia); Ben Sulser (PhD co-supervisor, 2017-date; RGGS)

Postdocs: Dr. Manuel Iturralde-Vinent (1997-1998), Dr. Alex Greenwood (1999-2001), Dr. Pere Bover (2006-2008), Dr. Faysal Bibi (2012-2013), Dr. Laureano Gonzalez Ruiz (2013-2014); Dr. Analia M. Forasiepi (2016 [Fulbright]); Dr. Lu Yao (2016-2018)

EXTERNAL EXAMINER, DOCTORAL DISSERTATIONS

Patricia Sutherland (PhD defense April 15, 2004; University of Alberta); Eske Willerslev (PhD defense October 23, 2004; University of Copenhagen)

ACADEMIC OUTREACH & SERVICE

AMNH ACADEMIC SENATE—POSITIONS

Member, Senate Exhibitions Policy Committee (2015-2019). Formerly **Chair, Senate Exhibition, Digital Media, and Shop Policy Committee** (2010-2014; responsibilities include curatorial input regarding proposed exhibitions, digital content on AMNH websites, and retail store operations (with special regard to scientific accuracy where appropriate, Native American materials, and fossils) Current **Chair, Senate Education Policy Committee** (2014-2016; responsibilities include curatorial input regarding ongoing and proposed education programs, including those sponsored by the Department of Education; creating new curator-led education and outreach initiatives; liaison with Department of Education. **Chair, Senate A & P Committee** (2015-2016; responsibilities include reviewing all candidates for tenure and making recommendations regarding tenurability to the provost; assessing staff members subject to post-tenure review and reporting assessments to provost. **Member, Senate Finance and Compensation Committee** (2010-2016)

PROFESSIONAL ACTIVITIES (PAST AND PRESENT)

Editor, *Canadian Review of Physical Anthropology/Revue Canadienne d'Anthropologie Physique* (1978-79) ; **Associate Editor**, *Journal of Human Evolution* (1990-1993); **Guest Editor**, *Discovering Archaeology* (October-November, 1999 issue on causes of Pleistocene extinctions); **Series Editor**, *Advances in Primatology* (Plenum) (1990-1997); **Series Editor**, *Advances in Vertebrate Paleobiology* (Plenum/Kluwer) (1995-2000); **Series Editor**, *Vertebrate Paleobiology and Paleoanthropology* (Springer) (2003-2010); **Review Editor**, *Frontiers in Ecology and Evolution* (2015-date); **Member**, Intl. Honorary Board of Trustees, Mammoth Site of South Dakota (2002); **Member**, Chancellor's Advisory Council, Caribbean Primate Research Center, Univ. Puerto Rico (1990-2000); **Member**, Organizing Committee, 2005 World of Elephants Conference; **Member**, International Scientific Committee of the 4th International Mammoth Conference, Yakutsk, 2007; **AMQUA "Ask an Expert"** (Quaternary Paleontology) (2000-2004); **Consultant**, *What Killed the Megabeasts* (Discovery Channel, 2002); **Consultant**, *Ice Age 2* (Blue Sky Productions, 2004); **Consultant**, *The Baby Mammoth* and Quest program, Discovery Communications (2006-2007); **Consultant**, *Ice Age* (ACW [Germany], 2017)

PROFESSIONAL SOCIETIES (PAST AND PRESENT)

American Association for the Advancement of Science, American Association of Physical Anthropologists, American Society of Mammalogists, Society of Vertebrate Paleontology, American Quaternary Association, International Quaternary Association, Arctic Institute of North America, International Paleontological Congress 2014, International Society of Antarctic Earth Sciences 2011

OTHER SOCIETIES (PAST AND PRESENT)

Hakluyt Society, Explorers Club, Society for the History of Discoveries, Polar Libraries Colloquy, Grolier Club

CURATED EXHIBITIONS

- Cuba: Nature of an Island/Cuba: Naturaleza de una Isla** (October 1993-March 1994) Photographic exhibition featuring the work of Alfonso Silva Lee (Akeley Gallery, AMNH)
- Endangered! Exploring a World at Risk** (March-September 1996) Examination of leading causes of endangerment and extinction of species in the modern world (Gallery 3, AMNH)
- The Endurance: Shackleton's Legendary Antarctic Expedition** (April-October 1999) Photographs and artifacts relating to Sir Ernest Shackleton's ill-fated 1914-1916 expedition to Antarctica (co-curated with Caroline Alexander; Gallery 77, AMNH) <http://www.amnh.org/exhibitions/shackleton/home.html>
- The Horse** (May 2008-January 2009) How humans changed horses and vice versa, from earliest interactions to the present (Gallery 4, AMNH) <http://www.amnh.org/exhibitions/horse/?section=multimedia#>
- Race to the End of the Earth** (May 2010-January 2011) Discovery and science at the southern end of the world (Gallery 4, AMNH) <http://www.amnh.org/exhibitions/race/>
- Hall of North American Mammals**, curator and science advisor, renovation (2011-2012)
- Hall of Asian Mammals & Hall of Asian Peoples**, co-curator, renovation pre-planning (2012-2014)

WEB-RELATED

- Bio/profile for popular audience: www.amnh.org/learn/musings/FA00/pfl.htm,
http://www.conservationmedicine.org/ross_macphee.htm,
<http://www.amnh.org/science/divisions/vertzoo/bio.php?scientist=macphee>
- Vertebrate Paleobiology and Paleoanthropology** (Springer book series):
<http://www.springer.com/sgw/cda/frontpage/0,11855,4-0-69-107887971-0,00.html?referer=www.wkap.nl>
- Wrangel Island Expedition: www.amnh.org/exhibitions/expeditions/siberia/
- Scientific American interview: www.scientificamerican.com/article.cfm?chanID=sa004&articleID=0006FB14-0FB0-1C75-9B81809EC588EF21; http://scientificamerican.com/article.cfm?chanID=sa027&article_ID=0004839D-C6AC-1CDA-B4A8809EC588EEDF
- AMNH extinction symposium: www.amnh.org/science/biodiversity/extinction/ResourcesCreditsFS.html
- Committee on Recently Extinct Organisms: creo.amnh.org/
- Cloning the mammoth: <http://www.msnbc.msn.com/id/21134540/vp/41178335#41178335>

SELECTED PRESS NOTICES SINCE 2000 (my research and commentaries on others' work)

- Stokstad E (2000) Hunting a mammoth killer. *Science* **289**: 531
- Miller M (2001) Mammoth mystery. *New Scientist* No **2289** (5 May): 32-35
- Stone R (2001) *Raising the Mammoth: The resurrection of an ice age giant* (Perseus, Cambridge MA) (vide pp 138-143)
- Calamai P (2004) Beyond "dreadful syncopation". *Toronto Star* (7 November 7): p A14
- Hecht J (2004) [Genetic evidence for Late Quaternary muskoxen collapse]. *New Scientist* No **2473** (13 November):
- Perkins S (2005) Caribbean extinctions: climate change probably wasn't the culprit. *Science News* **168** (18): 275-276.
- Hecht J (2005) Humans inflicted slow death on sloth. *New Scientist* No **2523** (29 October): 15
- Hecht J (2006) Ice-age genome project faces cold storage. *New Scientist* (11 November):
- Penny D, Phillips M (2007) Mass survivals. *Nature* **446** (29 March): 501-502
- Ritter M (2007) Study: dinosaur demise didn't spur species. *Washington Post* (28 March)
- Kanpp S (2007) [Review of Publication 116: Bininda-Emonds et al., *Nature* (2007)] *Faculty of 1000 Biology* 13 Apr 2007 (<http://www.f1000biology.com/article/id/1076757/evaluation>)
- Choi, C (2008) [Research on megafauna in central Yukon] *Scientific American*, September 2008: <http://www.sciam.com/article.cfm?id=hunting-for-a-mammoth-in-yukon>
- Lite J (2008) "Russia border dispute: Woolly mammoth is American, not Siberian" ["Out of America" hypothesis of mammoth population history in Holarctica"] <http://www.sciam.com/blog/60-second-science/post.cfm?id=woolly-mammoth-xxxx-2008-09-04>
- Nickerson C (2008) Mammoths came, saw, returned to Old World *Boston Globe*, 15 September 2008: "North America was thought to be sideshow," said Ross D. E. MacPhee, curator of vertebrate zoology at New York's American Museum of Natural History and one of ...
- Viegas J (2008) How disease can wipe out an entire species. *MSNBC Technology & Science*, 5 November 2008: <http://www.msnbc.msn.com/id/27556747/>
- Coelho S (2008)^[1]_[SEP] Island invaders: infect and conquer. *ScienceNOW Daily News*^[1]_[SEP] 5 November 2008 <http://sciencenow.sciencemag.org/cgi/content/full/2008/1105/22eaf>
- Ahmad N (2008) Editor's choice: Extinction - competition or infection? [Review of Publication 125: Wyatt et al., Historical extinction on Christmas Island (Indian Ocean) correlates with introduced infectious disease. *PLoS One* (2008)]

Faculty of 1000 Biology 25 November 2008

(<http://www.f1000biology.com/article/auce83nq012lfo92/id/1127780/evaluation/sections>)

Floyd Largent (2009) Decoding the Woolly Mammoth. *Mammoth Trumpet* 24(3): 14-15; 25(1): 9-11, 20

Race to The End (book) and *Race to the End of the Earth* (exhibition, AMNH 28 May 2010-3 January 2011:

[http://www.amazon.com/Race-End-Amundsen-Scott-](http://www.amazon.com/Race-End-Amundsen-Scott-Attainment/dp/1402770294/ref=sr_1_1?ie=UTF8&s=books&qid=1277816917&sr=1-1)

[Attainment/dp/1402770294/ref=sr_1_1?ie=UTF8&s=books&qid=1277816917&sr=1-1](http://www.amnh.org/exhibitions/race/index.php)

<http://www.amnh.org/exhibitions/race/index.php>

http://www.nytimes.com/2010/05/29/arts/design/29race.html?_r=1&ref=edward_rothstein

Angier, Natalie (2010) Musk Oxen Live to Tell a Survivors' Tale *NY Times*

<http://www.nytimes.com/2010/12/14/science/14angier.html>

Rejcek, Peter (2010) Race to the end: AMNH showcases famous competition between Scott and Amundsen:

<http://antarcticsun.usap.gov/science/contenthandler.cfm?id=2289>

Rejcek, Peter (2010) Bridge to the past: Researcher looks for evidence mammals traversed Antarctica to other continents 100 million years ago: <http://antarcticsun.usap.gov/science/contenthandler.cfm?id=1570>

Rejcek, Peter (2011) Big haul: Paleontologists return from Antarctic expedition with about 200 fossils

<http://antarcticsun.usap.gov/science/contenthandler.cfm?id=2509>

Mustain, Andrea (2011) For sale: piece of polar explorers' dramatic past. <http://livescience.com/auction-scott-photographs.html>

Milius, Susan (2011) DNA: mammoths may have mixed: supposedly separate types may really have been one. *Science News* 180(12): 13

http://www.sciencenews.org/view/generic/id/335922/title/DNA_suggests_North_American_mammoth_species_interbred

Switek, Brian (2011) Inside the Columbian mammoth, signs of a Woolly cousin. *Wired Science*.

<http://www.wired.com/wiredscience/2011/11/inside-the-columbian-mammoth-signs-of-a-woolly-cousin/>

CBS Early Show (3/23/2013) [De-extinction interview]

An Apology to Elephants (2013) HBO documentary [interview], aired 22 April 2013 (Earth Day)

WSJ Digital Network Lunch Break with Wendy Bounds (2013) [Interview regarding

report on significance of recovery of full genome of 700k yr old horse (27 June 2013)]

<http://live.wsj.com/video/700000-year-old-horse-dna-found/B586C23C-8C99-48EB-954D-1E8910B91D54.html#!B586C23C-8C99-48EB-954D-1E8910B91D54>

Poppick, Laura (2013) "Woolly mammoth comeback? 5 ethical challenges" LiveScience [Discussion of my presentation on de-extinction at AMNH SciCafe, 2 October 2013] <http://www.livescience.com/40263-ethics-of-bringing-mammoth-back.html> (October 8, 2013)

Kolata, Gina (2013) So You're Extinct? Scientists Have Glean in Eye [de-extinction] *NY Times*

http://www.nytimes.com/2013/03/19/science/earth/research-to-bring-back-extinct-frog-points-to-new-path-and-quandaries.html?_r=0

Newbern, Liz (2013) Night at the museum Scienceline Though there is no agreement among experts about whether de-extinction is advisable or even possible, Ross D. E. MacPhee, curator at the American Museum ...

Poppick, Laura (22 May 2014) [Ethical and logistical questions of de-extinction with a focus on the woolly mammoth]

<http://www.csmonitor.com/Science/2014/0522/Mummified-mammoth-Can-we-clone-this-critter>

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