

BIOL0035: Vertebrate Life and Evolution: Josephine Orledge

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1.

Pough, F. Harvey, Janis, Christine M., Heiser, John B. Vertebrate life. 6th ed. Upper Saddle River, NJ: Prentice Hall; 2002.

2.

Kardong, Kenneth V. Vertebrates: comparative anatomy, function, evolution. 4th ed. (International ed.). New York: McGraw-Hill; 2006.

3.

Ahlberg, Per Erik, Systematics Association. Major events in early vertebrate evolution: palaeontology, phylogeny, genetics and development. London: Taylor & Francis; 2001.

4.

DONOGHUE P, PURNELL M. Genome duplication, extinction and vertebrate evolution. Trends in Ecology & Evolution. 2005 Jun;20(6):312–319.

5.

Carroll, Robert L. Chapter 1: Fossils and relationships. Vertebrate paleontology and evolution [Internet]. New York, N.Y.: Freeman; 1988. p. 1–15. Available from: <https://contentstore.cla.co.uk/secure/link?id=e82a781a-f9d4-ef11-88f9-845c5d84cf17>

6.

Gee, Henry. In search of deep time: beyond the fossil record to a new history of life.

London: Free Press; 1999.

7.

Hammer, Øyvind, Harper, D. A. T. Paleontological data analysis. Malden, MA: Blackwell; 2006.

8.

Hammer Øyvind, Harper DAT, editors. Paleontological Data Analysis [Internet]. Malden, MA, USA: Blackwell Publishing; 2005. Available from: <http://doi.wiley.com/10.1002/9780470750711>

9.

Lomolino, Mark V., Brown, James H., Brown, James H., Riddle, Brett R. Biogeography. 3rd ed. Sunderland, Mass: Sinauer Associates; 2005.

10.

Cox CB, Moore PD, Ladle RJ. Biogeography: an ecological and evolutionary approach [Internet]. Ninth edition. Chichester, West Sussex, UK: Wiley Blackwell; 2016. Available from: <https://ebookcentral.proquest.com/lib/ucl/detail.action?docID=4452969>

11.

MacDonald, Glenn M. Biogeography: space, time and life. New York: Wiley; 2003.

12.

Chatterjee HJ, Tse JSY, Turvey ST. Using Ecological Niche Modelling to Predict Spatial and Temporal Distribution Patterns in Chinese Gibbons: Lessons from the Present and the Past. *Folia Primatologica*. 2012;83(2):85–99.

13.

Chatterjee HJ. Phylogeny and Biogeography of Gibbons: A Dispersal-Vicariance Analysis.

International Journal of Primatology. 2006 Jul 6;27(3):699–712.

14.

HIJMANS RJ, GRAHAM CH. The ability of climate envelope models to predict the effect of climate change on species distributions. Global Change Biology. 2006 Dec;12(12):2272–2281.

15.

Phillips SJ, Anderson RP, Schapire RE. Maximum entropy modeling of species geographic distributions. Ecological Modelling. 2006 Jan;190(3–4):231–259.

16.

Pough, F. Harvey. Herpetology. Upper Saddle River, NJ: Prentice Hall; 1998.

17.

Adler, Kraig, Halliday, Tim. The new encyclopedia of reptiles and amphibians. Oxford: Oxford University Press; 2002.

18.

Duellman, William Edward, Trueb, Linda. Biology of amphibians. London: McGraw-Hill; 1986.

19.

Liem, Karel F. Functional anatomy of the vertebrates: an evolutionary perspective. 3rd ed. Belmont, Calif: Brooks/Cole-Thomson Learning; 2001.

20.

Biju SD, Bossuyt F. New frog family from India reveals an ancient biogeographical link with the Seychelles. Nature. 2003 Oct 16;425(6959):711–714.

21.

Bossuyt F, Milinkovitch MC. From the Cover: Convergent adaptive radiations in Madagascan and Asian ranid frogs reveal covariation between larval and adult traits. *Proceedings of the National Academy of Sciences*. 2000 Jun 6;97(12):6585–6590.

22.

Bossuyt F, Brown R, Hillis D, Cannatella D, Milinkovitch M. Phylogeny and Biogeography of a Cosmopolitan Frog Radiation: Late Cretaceous Diversification Resulted in Continent-Scale Endemism in the Family Ranidae. *Systematic Biology*. 2006 Aug 1;55(4):579–594.

23.

Evans SE, Jones MEH, Krause DW. A giant frog with South American affinities from the Late Cretaceous of Madagascar. *Proceedings of the National Academy of Sciences*. 2008 Feb 25;105(8):2951–2956.

24.

Vences M. Origin of Madagascar's extant fauna: A perspective from amphibians, reptiles and other non-flying vertebrates. *Italian Journal of Zoology*. 2004 Jan;71(sup2):217–228.

25.

Anne D. Yoder and Michael D. Nowak. Has Vicariance or Dispersal Been the Predominant Biogeographic Force in Madagascar? Only Time Will Tell. *Annual Review of Ecology, Evolution, and Systematics* [Internet]. Annual Reviews; 2006;37. Available from: <https://www.jstor.org/stable/30033838>

26.

Roelants K, Gower DJ, Wilkinson M, Loader SP, Biju SD, Guillaume K, Moriau L, Bossuyt F. Global patterns of diversification in the history of modern amphibians. *Proceedings of the National Academy of Sciences*. 2007 Jan 10;104(3):887–892.

27.

David Marjanović and Michel Laurin. Fossils, Molecules, Divergence Times, and the Origin of Lissamphibians. *Systematic Biology* [Internet]. Oxford University Press; 2007;56(3). Available from:
https://www.jstor.org/stable/20143044?seq=1#metadata_info_tab_contents

28.

Apesteguía S, Jones MEH. A Late Cretaceous "tuatara" (Lepidosauria: Sphenodontinae) from South America. *Cretaceous Research*. 2012 Apr;34:154–160.

29.

EVANS SE. At the feet of the dinosaurs: the early history and radiation of lizards. *Biological Reviews*. 2003 Nov;78(4):513–551.

30.

Evans SE, Jones MEH. The Origin, Early History and Diversification of Lepidosauromorph Reptiles. *New Aspects of Mesozoic Biodiversity*. Berlin, Heidelberg: Springer Berlin Heidelberg; 2010. p. 27–44.

31.

KEQIN G, NORELL MA. Taxonomic composition and systematics of late cretaceous lizard assemblages from Ukhaa Tolgod and adjacent localities, Mongolian Gobi desert. *Bulletin of the American Museum of Natural History*. 2000 Mar;249:1–118.

32.

Adler, Kraig, Halliday, Tim. *The new encyclopedia of reptiles and amphibians*. Oxford: Oxford University Press; 2002.

33.

Jones MEH, Tennyson AJD, Worthy JP, Evans SE, Worthy TH. A sphenodontine (Rhynchocephalia) from the Miocene of New Zealand and palaeobiogeography of the tuatara (Sphenodon). *Proceedings of the Royal Society B: Biological Sciences*. 2009 Jan

6;276(1660):1385–1390.

34.

J. Robert Macey, James A. Schulte, II, Allan Larson, Natalia B. Ananjeva, Yuezhaio Wang, Rohan Pethiyagoda, Nasrullah Rastegar-Pouyani and Theodore J. Papenfuss. Evaluating Trans-Tethys Migration: An Example Using Acrodont Lizard Phylogenetics. *Systematic Biology* [Internet]. Oxford University Press; 2000;49(2). Available from: <https://www.jstor.org/stable/2585219>

35.

Zug, George R. *Herpetology: an introductory biology of amphibians and reptiles* [Internet]. San Diego: Academic Press; 1993. Available from: <https://www.sciencedirect.com/book/9780127826202/herpetology>

36.

Kupfer A, Müller H, Antoniazzi MM, Jared C, Greven H, Nussbaum RA, Wilkinson M. Parental investment by skin feeding in a caecilian amphibian. *Nature*. 2006 Apr 13;440(7086):926–929.

37.

Roelants K, Gower DJ, Wilkinson M, Loader SP, Biju SD, Guillaume K, Moriau L, Bossuyt F. Global patterns of diversification in the history of modern amphibians. *Proceedings of the National Academy of Sciences*. 2007 Jan 10;104(3):887–892.

38.

GOWER DJ, GIRI V, DHARNE MS, SHOUCHE YS. Frequency of independent origins of viviparity among caecilians (Gymnophiona): evidence from the first 'live-bearing' Asian amphibian. *Journal of Evolutionary Biology*. 2008 Sep;21(5):1220–1226.

39.

GOWER DJ, WILKINSON M. Conservation Biology of Caecilian Amphibians. *Conservation Biology*. 2005 Feb;19(1):45–55.

40.

WILKINSON M, SAN MAURO D, SHERRATT E, GOWER DJ. A nine-family classification of caecilians (Amphibia: Gymnophiona). Zootaxa. 2011 May 11;2874(1).

41.

WILKINSON M. Comparative morphology and evolution of the lungless caecilian *Atretochoana eiselti* (Taylor) (Amphibia: Gymnophiona: Typhlonectidae). Biological Journal of the Linnean Society. 1997 Sep;62(1):39–109.

42.

Ole Seehausen. African Cichlid Fish: A Model System in Adaptive Radiation Research. Proceedings: Biological Sciences [Internet]. Royal Society; 2006;273(1597). Available from: <https://www.jstor.org/stable/25223557>

43.

Kocher TD. Adaptive evolution and explosive speciation: the cichlid fish model. Nature Reviews Genetics. 2004 Apr;5(4):288–298.

44.

Schluter, Dolph. The ecology of adaptive radiation. Oxford: Oxford University Press; 2000.

45.

Schliewen UK, Tautz D, Pääbo S. Sympatric speciation suggested by monophyly of crater lake cichlids. Nature. 1994 Apr 14;368(6472):629–632.

46.

Joyce DA, Lunt DH, Bills R, Turner GF, Katongo C, Duftner N, Sturmbauer C, Seehausen O. An extant cichlid fish radiation emerged in an extinct Pleistocene lake. Nature. 2005 May 5;435(7038):90–95.

47.

Day JJ, Cotton JA, Barraclough TG. Tempo and Mode of Diversification of Lake Tanganyika Cichlid Fishes. PLoS ONE. 2008 Mar 5;3(3).

48.

Joyce DA, Lunt DH, Genner MJ, Turner GF, Bills R, Seehausen O. Repeated colonization and hybridization in Lake Malawi cichlids. Current Biology. 2011 Feb;21(3):R108–R109.

49.

Verheyen E. Origin of the Superflock of Cichlid Fishes from Lake Victoria, East Africa. Science. 2003 Mar 20;300(5617):325–329.

50.

Albertson RC, Markert JA, Danley PD, Kocher TD. Phylogeny of a rapidly evolving clade: The cichlid fishes of Lake Malawi, East Africa. Proceedings of the National Academy of Sciences. 1999 Apr 27;96(9):5107–5110.

51.

Genner MJ, Seehausen O, Lunt DH, Joyce DA, Shaw PW, Carvalho GR, Turner GF. Age of Cichlids: New Dates for Ancient Lake Fish Radiations. Molecular Biology and Evolution. 2007 Feb 13;24(5):1269–1282.

52.

Harshman J, Braun EL, Braun MJ, Huddleston CJ, Bowie RCK, Chojnowski JL, Hackett SJ, Han KL, Kimball RT, Marks BD, Miglia KJ, Moore WS, Reddy S, Sheldon FH, Steadman DW, Steppan SJ, Witt CC, Yuri T. Phylogenomic evidence for multiple losses of flight in ratite birds. Proceedings of the National Academy of Sciences. 2008 Sep 9;105(36):13462–13467.

53.

Feduccia A. 'Big bang' for tertiary birds? Trends in Ecology & Evolution. 2003 Apr;18(4):172–176.

54.

Cooper A. Mass Survival of Birds Across the Cretaceous- Tertiary Boundary: Molecular Evidence. Science. 1997 Feb 21;275(5303):1109–1113.

55.

Longrich NR, Tokaryk T, Field DJ. Mass extinction of birds at the Cretaceous-Paleogene (K-Pg) boundary. Proceedings of the National Academy of Sciences. 2011 Sep 13;108(37):15253–15257.

56.

Roelants K, Gower DJ, Wilkinson M, Loader SP, Biju SD, Guillaume K, Moriau L, Bossuyt F. Global patterns of diversification in the history of modern amphibians. Proceedings of the National Academy of Sciences. 2007 Jan 10;104(3):887–892.

57.

Lerner HRL, Meyer M, James HF, Hofreiter M, Fleischer RC. Multilocus Resolution of Phylogeny and Timescale in the Extant Adaptive Radiation of Hawaiian Honeycreepers. Current Biology. 2011 Nov;21(21):1838–1844.

58.

Ericson PGP, Anderson CL, Britton T, Elzanowski A, Johansson US, Kallersjo M, Ohlson JL, Parsons TJ, Zuccon D, Mayr G. Diversification of Neoaves: integration of molecular sequence data and fossils. Biology Letters. 2006 Dec 22;2(4):543–547.

59.

Bininda-Emonds ORP, Cardillo M, Jones KE, MacPhee RDE, Beck RMD, Grenyer R, Price SA, Vos RA, Gittleman JL, Purvis A. The delayed rise of present-day mammals. Nature. 2007 Mar 29;446(7135):507–512.

60.

Roos J, Aggarwal RK, Janke A. Extended mitogenomic phylogenetic analyses yield new insight into crocodylian evolution and their survival of the Cretaceous–Tertiary boundary. *Molecular Phylogenetics and Evolution*. 2007 Nov;45(2):663–673.

61.

Peter R. Grant and B. Rosemary Grant. Adaptive Radiation of Darwin's Finches: Recent data help explain how this famous group of Galápagos birds evolved, although gaps in our understanding remain. *American Scientist* [Internet]. Sigma Xi, The Scientific Research Honor Society; 2002;90(2). Available from: <https://www.jstor.org/stable/27857627>

62.

Lerner HRL, Meyer M, James HF, Hofreiter M, Fleischer RC. Multilocus Resolution of Phylogeny and Timescale in the Extant Adaptive Radiation of Hawaiian Honeycreepers. *Current Biology*. 2011 Nov;21(21):1838–1844.

63.

Adkins RM, Honeycutt RL. Molecular phylogeny of the superorder Archonta. *Proceedings of the National Academy of Sciences*. 1991 Nov 15;88(22):10317–10321.

64.

Allard M. Support for Interordinal Eutherian Relationships with an Emphasis on Primates and Their Archontan Relatives. *Molecular Phylogenetics and Evolution*. 1996 Feb;5(1):78–88.

65.

Loren K. Ammerman and David M. Hillis. A Molecular Test of Bat Relationships: Monophyly or Diphyly? *Systematic Biology*. Oxford University Press; Vol. 41(No. 2):222–232.

66.

Robert J. Asher, Jonathan H. Geisler and Marcelo R. Sánchez-Villagra. Morphology, Paleontology, and Placental Mammal Phylogeny. *Systematic Biology*. Oxford University

Press; Vol. 57(No. 2):311–317.

67.

General Anthropology. General Anthropology Bulletin of the General Anthropology Division. 2002 Mar;8(2):1–16.

68.

Kay RF, Thewissen JGM, Yoder AD. Cranial anatomy of *Ignacius graybullianus* and the affinities of the Plesiadapiformes. American Journal of Physical Anthropology. 1992 Dec;89(4):477–498.

69.

Kriegs JO, Churakov G, Kieffmann M, Jordan U, Brosius J, Schmitz J. Retroposed Elements as Archives for the Evolutionary History of Placental Mammals. PLoS Biology. 2006;4(4).

70.

Lin YH, Penny D. Implications for Bat Evolution from Two New Complete Mitochondrial Genomes. Molecular Biology and Evolution. 2001 Apr 1;18(4):684–688.

71.

Madsen O, Scally M, Douady CJ, Kao DJ, DeBry RW, Adkins R, Amrine HM, Stanhope MJ, de Jong WW, Springer MS. Parallel adaptive radiations in two major clades of placental mammals : Article : Nature. Nature. 2001 Feb 1;409(6820):610–614.

72.

Miyamoto M. A Congruence Study of Molecular and Morphological Data for Eutherian Mammals. Molecular Phylogenetics and Evolution. 1996 Dec;6(3):373–390.

73.

M. Miyamoto, Calvin A. Porter, Morr M. c- Myc Gene Sequences and the Phylogeny of Bats

and Other Eutherian Mammals. *Systematic Biology*. 2000 Sep 1;49(3):501–514.

74.

Murphy WJ. Resolution of the Early Placental Mammal Radiation Using Bayesian Phylogenetics. *Science*. 2001 Dec 14;294(5550):2348–2351.

75.

NOVACEK MJ, WYSS AR. HIGHER-LEVEL RELATIONSHIPS OF THE RECENT EUTHERIAN ORDERS: MORPHOLOGICAL EVIDENCE. *Cladistics*. 1986 Sep;2(4):257–287.

76.

J. D. Pettigrew, B. G. M. Jamieson, S. K. Robson, L. S. Hall, K. I. McAnally and H. M. Cooper. Phylogenetic Relations Between Microbats, Megabats and Primates (Mammalia: Chiroptera and Primates). *Philosophical Transactions of the Royal Society of London Series B, Biological Sciences*. The Royal Society; Vol. 325(No. 1229):489–559.

77.

SPRINGER M. Molecules consolidate the placental mammal tree. *Trends in Ecology & Evolution*. 2004 Aug;19(8):430–438.

78.

Springer MS, Murphy WJ. Mammalian evolution and biomedicine: new views from phylogeny. *Biological Reviews*. 2007 Aug;82(3):375–392.

79.

Springer M, Meredith R, Eizirik E, Teeling E, Murphy W. Morphology and Placental Mammal Phylogeny. *Systematic Biology*. 2008 Jun;57(3):499–503.

80.

Emma C. Teeling, Ole Madsen, Ronald A. Van Den Bussche, Wilfried W. de Jong, Michael J.

Stanhope and Mark S. Springer. Microbat Paraphyly and the Convergent Evolution of a Key Innovation in Old World Rhinolophoid Microbats. *Proceedings of the National Academy of Sciences of the United States of America*. National Academy of Sciences; Vol. 99(No. 3):1431–1436.

81.

Teeling EC. A Molecular Phylogeny for Bats Illuminates Biogeography and the Fossil Record. *Science*. 2005 Jan 28;307(5709):580–584.

82.

Van Den Bussche R. Characterization and Phylogenetic Utility of the Mammalian Protamine P1 Gene. *Molecular Phylogenetics and Evolution*. 2002 Mar;22(3):333–341.

83.

Ronald A. van Den Bussche and Steven R. Hoofer. Phylogenetic Relationships among Recent Chiropteran Families and the Importance of Choosing Appropriate Out-Group Taxa. *Journal of Mammalogy* [Internet]. American Society of Mammalogists; 2004;85(2). Available from: <https://www.jstor.org/stable/1383763?>

84.

Karen E. Sears. Constraints on the Morphological Evolution of Marsupial Shoulder Girdles. *Evolution*. Society for the Study of Evolution; Vol. 58(No. 10):2353–2370.

85.

Jason A. Lillegraven. Biological Considerations of the Marsupial-Placental Dichotomy. *Evolution*. Society for the Study of Evolution; Vol. 29(No. 4):707–722.

86.

Szalay FS. Paleobiogeography and metatherian evolution. *Evolutionary history of the marsupials and an analysis of osteological characters* [Internet]. Cambridge: Cambridge University Press; 1995. p. 407–428. Available from: https://www.cambridge.org/core/product/identifier/CBO9780511565571A074/type/book_part

87.

Nilsson MA, Arnason U, Spencer PBS, Janke A. Marsupial relationships and a timeline for marsupial radiation in South Gondwana. *Gene*. 2004 Oct;340(2):189–196.

88.

Nunn CL, Smith KK. Statistical Analyses of Developmental Sequences: The Craniofacial Region in Marsupial and Placental Mammals. *The American Naturalist*. 1998 Jul;152(1):82–101.

89.

Vera Weisbecker, Anjali Goswami, Stephen Wroe and Marcelo R. Sánchez-Villagra. Ossification Heterochrony in the Therian Postcranial Skeleton and the Marsupial-Placental Dichotomy. *Evolution. Society for the Study of Evolution*; Vol. 62(No. 8):2027–2041.

90.

Van Valkenburgh B. Deja vu: the evolution of feeding morphologies in the Carnivora. *Integrative and Comparative Biology*. 2007 May 10;47(1):147–163.

91.

Blaire van Valkenburgh. Major patterns in the history of carnivorous mammals. *Annual Review of Earth and Planetary Sciences* [Internet]. 1999;27:51–63. Available from: <https://search.proquest.com/docview/220785610?OpenUrlRefId=info:xri/sid:primo&acountid=14511>

92.

Ricklefs, Robert E., Schluter, Dolph. Historical Diversity Patterns in North American Large Herbivores and Carnivores. *Species diversity in ecological communities: historical and geographical perspectives*. Chicago: University of Chicago Press; 1993. p. 330–340.

93.

Goswami A, Friscia A, editors. Carnivoran Evolution: new views on phylogeny, form and function [Internet]. Cambridge: Cambridge University Press; 2010. Available from: <http://ebooks.cambridge.org/ref/id/CBO9781139193436>

94.

Goswami, Anjali, Friscia, Anthony. Carnivoran evolution: new views on phylogeny, form, and function. Cambridge: Cambridge University Press; 2010.

95.

Gina D. Wesley-Hunt. The Morphological Diversification of Carnivores in North America. Paleobiology. Paleontological Society; Vol. 31(No. 1):35–55.

96.

Rose, Kenneth David, Archibald, J. David. The rise of placental mammals: origins and relationships of the Major Extant Clades. Baltimore, Md: Johns Hopkins University Press; 2005. p. 175–198.

97.

Scott, Kathleen M., Jacobs, Louis L., Janis, Christine M., Gunnell, Gregg F., Uhen, Mark D. Evolution of tertiary mammals of North America. Cambridge: Cambridge University Press; 1998.

98.

Pasquale Raia and Shai Meiri. The Island Rule in Large Mammals: Paleontology Meets Ecology. Evolution. Society for the Study of Evolution; Vol. 60(No. 8):1731–1742.

99.

Lister AM. Rapid dwarfing of red deer on Jersey in the Last Interglacial. Nature. 1989 Nov 30;342(6249):539–542.

100.

Stephen Jay Gould and Niles Eldredge. Punctuated Equilibria: The Tempo and Mode of Evolution Reconsidered. *Paleobiology* [Internet]. Paleontological Society; 1977;3(2). Available from: <https://www.jstor.org/stable/2400177>

101.

Lister AM. The Origin and Evolution of the Woolly Mammoth. *Science*. 2001 Nov 2;294(5544):1094–1097.

102.

Lister, Adrian, Bahn, Paul G. *Mammoths: giants of the ice age*. Rev. ed. Berkeley: University of California Press; 2007.

103.

Fleagle JG. *Primate adaptation and evolution* [Internet]. 3rd ed. Amsterdam: Elsevier/Academic Press; 2013. Available from: <https://www.sciencedirect.com/book/9780123786326/primates-adaptation-and-evolution>

104.

Aiello, Leslie, Dean, Christopher. *An introduction to human evolutionary anatomy*. London: Academic Press; 1990.

105.

An Introduction to Human Evolutionary Anatomy [Internet]. Elsevier; 2002. Available from: <https://www.sciencedirect.com/book/9780120455911/an-introduction-to-human-evolutionary-anatomy>

106.

Dunbar, R. I. M., Barrett, Louise, British Broadcasting Corporation. *Cousins: our primate relatives*. London: BBC Worldwide; 2000.

107.

Franzen JL, Gingerich PD, Habersetzer J, Hurum JH, von Koenigswald W, Smith BH. Complete Primate Skeleton from the Middle Eocene of Messel in Germany: Morphology and Paleobiology. PLoS ONE. 2009 May 19;4(5).

108.

Groves, Colin P. Primate taxonomy. Washington, DC: Smithsonian Institution Press; 2001.

109.

Mittermeier RA, Wallis J, Rylands AB, Ganzhorn JU, Oates JF, Williamson EA, Palacios E, Heymann EW, Kierulff MCM, Yongcheng L, Supriatna J, Roos C, Walker S, Cortés-Ortiz L, Schwitzer C. Primates in Peril: The World's 25 Most Endangered Primates 2008–2010. Primate Conservation [Internet]. 2009 Nov;24(1):1–57. Available from: <https://doi.org/10.1896/052.024.0101>

110.

Chatterjee HJ, Ho SY, Barnes I, Groves C. Estimating the phylogeny and divergence times of primates using a supermatrix approach. BMC Evolutionary Biology. 2009;9(1).