

## **Publications by Timothy Rowe**

February 25, 2008

### **Selected Internet Sites:**

Digital Morpholog, an NSF Digital Library: [www.DigiMorph.org](http://www.DigiMorph.org)

High-Resolution X-ray CT Facility: [www.ctlab.geo.utexas.edu](http://www.ctlab.geo.utexas.edu)

Vertebrate Paleontology Laboratory: [www.paleo.utexas.edu/vpl](http://www.paleo.utexas.edu/vpl)

### **Selected Publications:**

#### **I. Books:**

Dingus, L., and T. Rowe. 1998. *The Mistaken Extinction - Dinosaur Evolution and the Origin of Birds*. New York, W. H. Freeman & Co., 322 pp. ISBN 0-7167-2944-X, ISBN 0-7167-3227-0 (academic version).

#### **II. CD-ROMs:**

Rowe, T., C. A. Brochu, K. Kishi, M. Colbert, J. W. Merck, Jr., E. Saglamer, and S. Warren. 1999. *Alligator: Digital Atlas of the Skull*. Interactive Multimedia on CD-ROM for Macintosh and PC computers. *in*: T. Rowe, C. A. Brochu, and K. Kishi (eds.). Cranial morphology of *Alligator* and phylogeny of Alligatoroidae. Memoir 6, Society of Vertebrate Paleontology.

Rowe, T., K. Kishi, J. Merck, Jr., and M. Colbert. 1998. *The Age of Dinosaurs*. Educational Interactive Multimedia on CD-ROM for Macintosh and PC computers. Third Edition. W. H. Freeman & Co. ISBN 0-7167-3378-1, and packaged in ISBN 0-7167-3227-0

Rowe, T., K. Kishi, and J. Merck, Jr., 1995. *The Age of Dinosaurs*. Educational Interactive Multimedia on CD-ROM for Macintosh and PC computers. Second Edition Beta Test 2.0, September 1995.

Rowe, T., W. Carlson, and W. Bortorff. 1995. *Thrinaxodon*: Digital Atlas of the Skull. CD-ROM (Second Edition, for Windows and Macintosh platforms), University of Texas Press, 547 megabytes.

Rowe, T., K. Kishi, and J. Merck, Jr., 1994. *The Age of Dinosaurs*. Educational Interactive Multimedia on CD-ROM for Macintosh and PC computers. First Edition, Beta Test 1.0, October 1994.

Rowe, T., W. Carlson, and W. Bortorff. 1993. *Thrinaxodon*: Digital Atlas of the Skull. CD-ROM (First edition, for MS-DOS platform), University of Texas Press, 623 megabytes.

#### **III. Scientific Articles:**

Colbert, M. W. and T. Rowe. 2008. Ontogenetic Sequence Analysis: Using Parsimony to Characterize Developmental Sequences and Sequence Polymorphism. *Journal of Experimental Zoology (Mol. Dev. Evol.)* 310B:1-19.

Rowe, T., Rich, T. H., Vickers-Rich, P., Springer M., and Woodburne M. O., (2008). The Oldest Platypus, and its Bearing on Divergence

Timing of the Platypus and Echidna Clades. Proceedings National Academy of Sciences 105:1238-1242 + online supplementary information.

Sereno, P. C., J. A. Wilson, L. A. Witmer, J. A. Whitlock, A. Maga, O. Ide, and T. B. Rowe (2007). Structural Extremes in a Cretaceous Dinosaur. PLoS ONE 2(11): e1230.

Balanoff, A. M. and T. B. Rowe. 2007. Osteological Description of an Embryonic Skeleton of the Extinct Elephant Bird, *Aepyornis* (Palaeognathae, Ratitae). Memoir 9, Society of Vertebrate Paleontology; Journal of Vertebrate Paleontology, supplement to volume 27: 1-54.

Macrini, T. E., T. Rowe, and J. VandeBerg. 2007. Cranial Endocasts from a Growth Series of *Monodelphis domestica* (Didelphidae, Marsupialia): A Study of Individual and Ontogenetic Variation. Journal of Morphology, published online 11 July, 2007.

Macrini, T. E., G. Rougier, and T. Rowe. 2007. Description of a Cranial Endocast from the Fossil Mammal *Vincelestes neuquenianus* (Theriiformes) and its Relevance to the Evolution of Endocranial Characters in Therians. Anatomical Record, 290: 875-892.

Macrini, T. E., C. de Muizon, R. L. Cifelli, and T. Rowe. 2007. Digital endocast of *Pucadelphys andinus*, a Paleocene metatherian. Journal of Vertebrate Paleontology 27: 99-107.

Maisano, J. A., M. Kearney, and T. Rowe. 2006. Cranial Anatomy of the Spade-Headed Amphisbaenian *Diplometapon zarudnyi* (Squamata, Amphisbaenia) Based on High-Resolution X-ray Computed Tomography. Journal of Morphology 267(1):70-102, includes Web supplement at [www.DigiMorph.org](http://www.DigiMorph.org), posted on "early view" October 28, 2005.

Macrini, T. E., T. Rowe, and M. Archer. 2006. Description of a cranial endocast from a fossil platypus, *Obdurodon dicksoni* (Monotremata, Ornithorhynchidae), and the relevance of endocranial characters to monotreme monophyly. Journal of Morphology 267:1000-1015.

Bever, G. S., T. Rowe, E. G. Ekdale, T. E. Macrini, M. W. Colbert, A. M. Balanoff. 2005. Comment on "Independent Origins of Middle Ear bones in Monotremes and Therians." Science, 309: 1492a.

Rowe, T. B., T. P. Eiting, T. E. Macrini, R. A. Ketcham. 2005. Organization of the Olfactory and Respiratory Skeleton in the Nose of the Gray

Short-Tailed Opossum *Monodelphis domestica*. Journal of Mammalian Evolution 12:303-336.

- Franzosa, J., and T. Rowe. 2005. Cranial Endocast of the Cretaceous Theropod Dinosaur *Acrocanthosaurus atokensis*. Journal of Vertebrate Paleontology, 25(4): 859-864, plus Web supplement at [www.DigiMorph.org](http://www.DigiMorph.org).
- Colbert, M. W., R. Racicot, and T. Rowe. 2005. Anatomy of the Cranial Endocast of the bottlenose dolphin *Tursiops truncatus*, based on HRXCT. Journal of Mammalian Evolution 12: 197-209.
- Kearney, M., J. A. Maisano, and T. Rowe. 2005. Cranial Anatomy of the Extinct Worm-lizard *Rhineura hatcherii* (Squamata, Amphisbaenia) based on High-resolution X-ray Computed Tomography. Journal of Morphology, 264: 1-33, plus Web supplement at [www.DigiMorph.org](http://www.DigiMorph.org).
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- Van Valkenburgh, J. Theodor, A. Friscia, and T. Rowe. 2004. Respiratory Turbinates of Canids and Felids: A Quantitative Comparison. Journal of Zoology, London, 264: 1-13. Includes Web supplement at [www.DigiMorph.org](http://www.DigiMorph.org).
- Tykoski, R. S., and T. Rowe. 2004. Ceratosauria. Pp 47-70, *In*: The Dinosauria, D. Weishampel, P. Dodson, and H. Osmolska (eds.), 2<sup>nd</sup> edition, University of California Press.
- Rowe, T. 2004. Chordate Phylogeny and Development. Pp. 384 – 409, *In*: Assembling the Tree of Life (M. J. Donoghue and J. Cracraft, eds.), Oxford University Press, Oxford and New York.
- Dominguez-Alonso, P., A. C. Milner, M. J. Cookson, T. B. Rowe. 2004. The Avian nature of the brain and inner ear of *Archaeopteryx*. Nature 430: 666-669; with Web supplements at [www.Nature.com](http://www.Nature.com) and [www.Digimorph.org](http://www.Digimorph.org).
- See also commentary on this article: L. M. Witmer, 2004. Inside the Oldest Bird Brain. Nature 430: 619-620.
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- Witmer, Lawrence W., Sankar Chatterjee, Jonathan Franzosa, and Timothy Rowe. 2003. Neuroanatomy of flying reptiles and implications for flight, posture, and behavior. *Nature*, 425: 950-954.
- Carlson, W.D., Rowe, T., Ketcham, R.A., and Colbert, M.W. (2003) Geological applications of high-resolution X-ray computed tomography in petrology, meteoritics and palaeontology. In F. Mees, R. Swennen, M. Van Geet, and P. Jacobs, Eds. *Applications of X-ray computed tomography in the geosciences*, 215, 7-22. Geological Society, London.
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- Anderson, J. S., R. L. Carroll, and T. Rowe. 2003. New Information on *Lethiscus stocki* (Tetrapoda, Lepospondyli, Aistopoda) from High-Resolution X-ray Computed Tomography. *Canadian Journal of Earth Sciences*, 40: 1071-1083.
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- Rowe, T., C. A. Brochu, and K. Kishi (eds.). 1999. Cranial morphology of *Alligator* and phylogeny of Alligatoroidae. *Society of Vertebrate Paleontology Memoir 6, Journal of Vertebrate Paleontology 19*, supplement to number 2.
- Rowe, T., C. A. Brochu, K. Kishi, M. Colbert, and J. W. Merck. 1999 Introduction to Alligator: Digital Atlas of the Skull. Pp. 1-8 *In*: T. Rowe, C. A. Brochu, and K. Kishi (eds.). *Cranial morphology of Alligator and phylogeny of Alligatoroidae. Society of Vertebrate Paleontology Memoir 6, Journal of Vertebrate Paleontology 19*, supplement to number 2.
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- Cifelli, R. L., Rowe, T., Luckett, W. P., Banta, J., Reyes, R., and Howes, R. I. 1996. Fossil evidence for the origin of the marsupial pattern of tooth replacement. *Nature*, 379:715-718.

- Rowe, T., and E. L. Lundelius 1994. At the beginning: computer technology and the early history of mammals. *Discover*, The University of Texas at Austin, vol. 13(4): 22-28.
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- Forster, C. A., P. C. Sereno, T. W. Evans, and T. Rowe 1993. A complete skull of *Chasmosaurus mariscalensis* (Dinosauria, Ceratopsidae) from the Aguja Formation (Late Campanian) of west Texas. *Journal of Vertebrate Paleontology*, 13(2): 161-170.
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- Gauthier, J. A., D. Cannatella, K. de Queiroz, A. G. Kluge, and T. Rowe 1989. Tetrapod phylogeny. Pp. 337-353 *In: The Hierarchy of Life [Nobel Symposium]*, B. Fernholm, H. Bremer, H. Jornvall (eds.), Nobel Symposium 70, Excerpta Medica, Amsterdam.
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#### **IV. Book Reviews:**

- Rowe, T. 2005. Unearthing Mammalian Origins: review of *Mammals from the Age of Dinosaurs – Origins, Evolution, and Structure*, by Zophia Kielan Jaworowska, Richard Cifelli, and Zhexi Luo. *Nature* 438:426.
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## **V. Selected Abstracts:**

- Macrini, T. E., G. W. Rougier, and T. B. Rowe. 2005. A digital cranial endocast of *Vincelestes* and a discussion of the evolution of endocranial space in mammals. *Journal of Vertebrate Paleontology* 25(Suppl. No. 3):87A. (platform presentation)
- Macrini, T. E., C. de Muizon, R. L. Cifelli, and T. Rowe. 2006. Digital cranial endocast from *Pucadelphys andinus*, a Paleocene metatherian. *Journal of Vertebrate Paleontology* 26(Suppl. No. 3):93A. (poster presentation)
- Macrini, T. E., and T. B. Rowe. 2005. Preliminary comparison of cranial endocasts of marsupials. *Society for Integrative and Comparative Biology 2005 Annual Meeting Final Program and Abstracts*, San Diego, CA, p. 182. (platform presentation)
- Rowe, T. B., T. E. Macrini, T. P. Eiting, and R. A. Ketcham. 2005. The olfactory and respiratory skeleton in the nose of the opossum *Monodelphis domestica*. *Society for Integrative and Comparative Biology 2005 Annual Meeting Final Program and Abstracts*, San Diego, CA, p. 219.
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- Macrini, T. E., and T. B. Rowe. 2004. Cranial endocasts of monotremes. *Journal of Vertebrate Paleontology* 24(Suppl. No. 3):87A. (platform presentation)
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- Rowe, T., and T. E. Macrini. 2002. Organization and origin of the mammalian olfactory system. *Journal of Vertebrate Paleontology* 22(suppl. To No. 3):101a
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