

## *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. Saglammer, 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 Alligatoroidea. 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. Bottorff. 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. Bottorff. 1993. *Thrinaxodon: Digital Atlas of the Skull*. CD-ROM (First edition, for MS-DOS platform), University of Texas Press, 623 megabytes.

### *III. Scientific Articles:*

Maisano, J. A., M. Kearney, and T. Rowe. 2006. Carnial 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).
- Kay, R. F., V. M. Campbell, J. B. Rossie, M. W. Colbert, and T. B. Rowe. 2004. The olfactory system of *Tremacebus harringtoni* (Platyrrhini, early Miocene, Sacanana, Argentina): implications for activity pattern. *Anatomical Record Part B: The New Anatomist*, 281:1157-1172. Includes Web supplement at [www.DigiMorph.org](http://www.DigiMorph.org).
- 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.
- Rowe, T., 2004. Anatomy the Old-Fashioned Way. *New York Times*, Letter to the Editor. March 30, 2004, p. D4.
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- 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.
- Stuppy, W.H., Maisano, J.A., Colbert, M.W., Rudall, P.J., and Rowe, T.B. (2003) Three-dimensional analysis of plant structure using high-resolution X-ray computed tomography. *Trends in Plant Science*, 8, 2-6.
- 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.
- Makovicky, Peter J., Norell, Mark A., Clark, James M., Rowe, Timothy. 2003. Osteology and Relationships of *Byronosaurus jaffei* (Theropoda: Troodontidae). *American Museum Novitates*: Number 3402, pp. 1-32.
- Tykoski, R. S., T. Rowe, R. Ketcham, and M. Colbert. 2002. *Calsoyasuchus valliceps*, a new crocodyliform from the Early Jurassic Kayenta Formation of Arizona. *Journal of Vertebrate Paleontology*, 22(3): 593-611, with CD-ROM & Web supplements.
- Tykoski, R. S., C. A. Forster, T. Rowe, S. D. Sampson, and D. Munyikwa. 2002. A furcula in the coelophysid theropod *Syntarsus*. *Journal of Vertebrate Paleontology*, 22(3): 728-733.

- Clark, J. M., M. A. Norell, and T. Rowe. 2002. Cranial anatomy of *Citipati osmolskae* (Theropoda, Oviraptorosauria), and a reinterpretation of the holotype of *Oviraptor philoceratops*. *American Museum Novitates* 3364: 1-24.
- Maisano, J. A., C. J. Bell, J. A. Gauthier, and T. Rowe. 2002. The osteoderms and palpebral in *Lanthanotus borneensis* (Squamata: Anguimorpha). *Journal of Herpetology* 36(4):678-682.
- Rowe, T. 2002. Dinosauria. In: *Encyclopedia of Evolution*. Oxford University Press.
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- Rowe, T., E. F. McBride, and P. C. Sereno, 2001. Dinosaur with a heart of stone. *Science* 291: 783e.
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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.
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- [Rowe, T., R. Tykoski, and J. Hutchinson, 1997. Ceratorauria. Pp. 106-110 in: K. Padian and P. E. Currie \(eds.\) Encyclopedia of Dinosaurs. New York, Academic Press.](#)
- Rowe, T. 1996. Coevolution of the Mammalian Middle Ear and Neocortex. *Science* 273: 651-654.
- Rowe, T. 1996. Brain heterochrony and evolution of the mammalian middle ear. Pp. 71-96 *In*: *New Perspectives on the History of Life*. M. Ghiselin and G. Pinna (eds.), California Academy of Sciences, Memoir 20.

- Cifelli, R. L., Rowe, T., Lockett, 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.
- Rowe, T. 1993. Phylogenetic systematics and the early history of mammals. Pp: 129-145 *In: Mammalian Phylogeny* (F. S. Szalay, M. J. Novacek, and M. C. McKenna, eds.), Springer-Verlag, New York.
- 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.
- Rowe, T., R. L. Cifelli, T. M. Lehman, and A. Weil 1992. The Campanian Terlingua local fauna, with a summary of other vertebrates from the Aguja Formation, Trans-Pecos, Texas. *Journal of Vertebrate Paleontology*, 12(4):405-427.
- Rowe, T., and J. Gauthier 1992. Ancestry, paleontology, and definition of the name Mammalia. *Systematic Biology*, 41(3): 372-378.
- [Rowe, T., and J. Gauthier 1990. Ceratosauria. Pp. 151-168, In: D. Weishampel, H. H. Osmolska, and P. Dodson \(eds.\), The Dinosauria. Los Angeles, University of California Press.](#)
- Rowe, T. 1989. A new species of the theropod dinosaur *Syntarsus* from the Early Jurassic Kayenta Formation of Arizona. *Journal of Vertebrate Paleontology*, 9(2): 125-136.
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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.
- Donoghue, M. J., J. Doyle, J. A. Gauthier, A. G. Kluge, T. Rowe 1989. Importance of fossils in phylogeny reconstruction. *Annual Review of Ecology and Systematics*, 20: 431-460.
- Rowe, T. 1988. Definition, diagnosis and origin of Mammalia. *Journal of Vertebrate Paleontology*, 8(3): 241-264.

- Gauthier, J., A. G. Kluge, and T. Rowe 1988. Amniote phylogeny and the importance of fossils. *Cladistics*, 4: 105-209.
- Gauthier, J., A. G. Kluge, and T. Rowe 1988. The early evolution of the Amniota. Pp. 103-155 *In*: M. Benton (ed.) *The Phylogeny and Classification of the Tetrapods*, Vol. 1: Amphibians, Reptiles and Birds. Systematics Association Special Volume No. 35a. Oxford, Clarendon Press.
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- Rowe, T. 1986. Homology and evolution of the deep dorsal thigh musculature in birds and other Reptilia. *Journal of Morphology*, 198: 327-346.
- Rowe, T., and J. van den Heever 1986. The hand of *Anteosaurus magnificus* (Therapsida, Dinocephalia) and Its bearing on the origin of the mammalian manual phalangeal formula. *South African Journal of Science*, 82(11): 641-645.
- Rowe, T., R. L. Cifelli, and B. Kues 1982. The instrumental role of paleontology in the funding and development of a major new natural history museum. *Journal of Paleontology*, 56(4): 839-842.
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- Rowe, T. 1980. The morphology, affinities, and age of the dicynodont reptile *Geikia elginensis*. Pp. 269-294 *In*: L. L. Jacobs (ed.), *Aspects of Vertebrate History: Essays in Honor of Dr. Edwin Harris Colbert*. Flagstaff, Museum of Northern Arizona Press.
- Rowe, T. 1979. Placerias: an unusual reptile from the Chinle Formation. *Plateau*, 51(4): 30-32.

***Scientific Articles in Press or Review:***

- Balanoff, A. M. and T. B. Rowe. (in review). Osteological Description of an Embryonic Skeleton of the Extinct Elephant bird, *Aepyornis* (Palaeognathae, Ratitae). *Memoir, Society of Vertebrate Paleontology*, 155pp.
- Macrini, T. E., C. de Muizon, R. L. Cifelli, and T. Rowe. (in press). Digital cranial endocast of *Pucadelphys andinus*, a Paleocene metatherian. *Journal of Vertebrate Paleontology*.
- Macrini, T. E., M. Novacek, and T. Rowe. (in review). New data on endocranial space of a multituberculate mammal *Kryptobaatar dashzevegi* based on a digital cranial endocast. *American Museum Novitates*.

Macrini, T. E., G. W. Rougier, and T. Rowe. (in review). Digital cranial endocast from *Vincelestes neuquenianus*, a Cretaceous theriiform mammal. *Anatomical Record*, Part A.

Macrini, T. E., T. Rowe, and J. L. VandeBerg. (in review). Cranial endocasts from a growth series of *Monodelphis domestica* (Didelphidae, Marsupialia): a study of individual and ontogenetic variation. *Journal of Morphology*.

#### **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.

Rowe, T., 1995. In the Shadow of the Dinosaurs - Early Mesozoic Tetrapods. *Journal of Vertebrate Paleontology* 15(4): 866-867.

Rowe, T., 1991. Handbuch der Palaoherpertologie (Teil17B/1/1 part 17B/1) Theriodontia. *Copeia*, 1991(2): 531-533.

Rowe, T., 1991. Homage to Rudyard Kipling: The Dicynodonts, a Study in Paleobiology. *Systematic Zoology*, 40:244-5.

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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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- Rowe, T., Gauthier, J. A., K. de Queiroz, W. G. Joyce, J. F. Parham, , J. Clarke. 2004. A Phylogenetic Nomenclature for the Major Clades of Amniota Haeckel 1866, with Emphasis Mammalia Linnaeus 1758. First International Phylogenetic Nomenclature Meeting, Paris, July 6-9, page 31.
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- Clarke, J., Gauthier, J. A., K. de Queiroz, W. G. Joyce, J. F. Parham, T. Rowe. 2004. A Phylogenetic Nomenclature for the Major Clades of Amniota Haeckel 1866, with Emphasis on Aves Linnaeus 1758. First International Phylogenetic Nomenclature Meeting, Paris, July 6-9 ;page 30.
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- Witmer, L. M., S. Chatterjee, T. Rowe, and J. Franzosa. 2002. Anatomy of the brain and vestibular apparatus in two pterosaurs: Implications for flight, head posture, and behavior. *Journal of Vertebrate Paleontology*22(suppl. To No. 3):120-121a
- Balanoff, A., and T. Rowe 2002. Osteological description of an elephant bird embryo using computed tomography and rapid prototyping, with a discussion of growth rates in *Aepyornis*. *Journal of Vertebrate Paleontology*22(suppl. To No. 3):34a
- Macrini, Thomas E., and T. Rowe. 2002. Ontogenetic variation in endocasts of *Monodelphis domestica* and implications for the fossil record. *Journal of Vertebrate Paleontology*22(suppl. To No. 3):81a
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- Anderson, J. S., R. L. Carroll, and T. B. Rowe. 2001. New information on *Lethiscus stocki* (Tetrapoda, Lepospondyli, Aïstopoda) from high resolution computerized tomography and a phylogenetic analysis of Aïstopoda. 61<sup>st</sup> Annual meeting, Society of Vertebrate Paleontology, *Journal of Vertebrate Paleontology*, 21(4), supplement to No. 3: 28a.

- Rowe, T. 2001. The *Archaeoraptor* forgery, a high-resolution X-ray CT analysis. 61<sup>st</sup> Annual meeting, Society of Vertebrate Paleontology, Journal of Vertebrate Paleontology, 21(4), supplement to No. 3: 95a.
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- Summer, Adam, R. A. Ketcham, and T. Rowe. 2001. Crushing hard prey – reconstructions of modern chondrichthyes. 61<sup>st</sup> Annual meeting, Society of Vertebrate Paleontology, Journal of Vertebrate Paleontology, 21(4), supplement to No. 3: 106a.
- Van Valkenburgh, J. Theodor, A. Friscia, and T. Rowe. 2001. Respiratory Turbinates of Carnivorans Revealed by CT Scans: a Quantitative Comparison. 61<sup>st</sup> Annual meeting, Society of Vertebrate Paleontology, Journal of Vertebrate Paleontology, 21(4), supplement to No. 3: 110a.
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- Maisey, J. G., M. Carvalho, D. Reddy, D., and T. Rowe. 1999. CT Scans of a shark braincase from the Santana Formation. International Congress of Geology, Brazil.
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- Rowe, T., 1995. Brain heterochrony and origin of the mammalian middle ear: new data from high resolution X-ray CT. Journal of Vertebrate Paleontology, supplement to volume 15(3): 50A.
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***VII. Technical Reports:***

- Rowe, T., and W. J. Breed, 1974. Preliminary Report for Paleontological Investigations on Proposed Santa Fe Railroad Corridors in Northwestern New Mexico. Prepared for Santa Fe Railroad Co., Albuquerque, 26 pp.
- Rowe, T., 1979. Report on the Paleontological Resources on Navajo Tribal Lands Leased by El Paso Coal Company, near Burnham, New Mexico. Prepared for El Paso Coal Company, El Paso, 40 pp.
- Rowe, T., 1979-1981. Fossils of New Mexico. [A major public exhibit on the diversity and significance of New Mexico's paleontological resources, commissioned by the State of New Mexico (Senate Bill 224, 1979), written by T. Rowe, and produced by the Museum of Northern Arizona, designed by Ralph Applebaum Associates.]

- Cifelli, R. L., and T. Rowe, 1979. Salt River Project Pumped Storage Project Environmental Studies: Paleontology. Prepared for Wirth Associates, Phoenix, 24 pp.
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