

**HONR 259C: “Fearfully Great Lizards”: Topics in Dinosaur Research**  
Spring Semester 2007

Preliminary List for Critical Readings and Small-Group Projects  
(Subject to revision with publication of new relevant papers)

TOPIC 1: Eaters and Eatees

- Buffetaut, E., D. Martill & F. Escullié. 2004. Pterosaurs as part of a spinosaur diet. *Nature* **430**:33.
- Molnar, R.E. & H.T. Clifford. 2000. Gut contents of a small ankylosaur. *Journal of Vertebrate Paleontology* **20**:194-196.
- Nesbitt, S.J., A.H. Turner, G.M. Erickson & M.A. Norell. 2006. Prey choice and cannibalistic behaviour in the theropod *Coelophysis*. *Biology Letters* **XX**:xxx-xxx.
- Prasad, V., C.A.E. Strömberg, H. Alimohammadian & A. Sahni. 2005. Dinosaur coprolites and the early evolution of grasses and grazers. *Science* **310**:1177-1180.
- Rogers, R.R., D.W. Krause & K. Curry-Rogers. 2003. Cannibalism in the Madagascan dinosaur *Majungatholus atopus*. *Nature* **422**:515-518.

TOPIC 2: Trace Fossil Analysis

- Carpenter, K., F. Sanders, L.A. McWhinney & L. Wood. 2005. Evidence for predator-prey relationships: examples for *Allosaurus* and *Stegosaurus*. Pp. 325-350 in Carpenter, K. (ed.), *The Carnivorous Dinosaurs*. Indiana Univ. Press.
- Jennings, D.S. & S.T. Hasiotis. 2006. Taphonomic analysis of a dinosaur feeding site using geographic information systems (GIS), Morrison Formation, southern Bighorn Basin, Wyoming, USA. *Palaios* **21**:480-492.
- Lingham-Soliar, T., T. Broderick & A. Ait Kaci Ahmed. 2003. Closely associated theropod trackways from the Jurassic of Zimbabwe. *Naturwissenschaften* **90**:572-576.
- Marsicano, C.A., N.S. Domnavovich & A.C. Mancuso. 2006. Dinosaur origins: evidence from the footprint record. *Historical Biology* **XX**:xx-xx.
- Varricchio, D.J. & F.D. Jackson. 2004. Two eggs sunny-side up: reproductive physiology in the dinosaur *Troodon formosus*. Pp. 215-233 in Currie, P.J., E.B. Koppelhus, M.A. Shugar & J.L. Wright (eds.), *Feathered Dragons: Studies on the Transition from Dinosaurs to Birds*. Indiana Univ. Press.

TOPIC 3: Functional Anatomy and Biomechanics

- Henderson, D.M. 2006. Burly gaits: centers of mass, stability, and the trackways of sauropod dinosaurs. *Journal of Vertebrate Paleontology* **26**:907-921.
- Paul, G.S. & P. Christiansen. 2000. Forelimb posture in neoceratopsian dinosaurs: implications for gait and locomotion. *Paleobiology* **26**:450-465.
- Senter, P. 2006. Comparison of forelimb function between *Deinonychus* and *Bambiraptor* (Theropoda: Dromaeosauridae). *Journal of Vertebrate Paleontology* **26**:897-906.

- Snively, E., D.M. Henderson & D.S. Phillips. 2006. Fused and vaulted nasals of tyrannosauroid dinosaurs: implications for cranial strength and feeding mechanics. *Acta Palaeontologica Polonica* **51**:435-454.
- Stevens, K.A. 2006. Binocular vision in theropod dinosaurs. *Journal of Vertebrate Paleontology* **26**:321-330.

#### TOPIC 4: Dinosaur Growth and Behavior

- Erickson, G.M., P.J. Currie, B.D. Inouye & A.A. Winn. 2006. Tyrannosaur life tables: an example of nonavian dinosaur population biology. *Science* **313**:213-217.
- Erickson, G.M., K. Curry-Rogers & S.A. Yerby. 2001. Dinosaurian growth patterns and rapid avian growth rates. *Nature* **412**:429-433.
- Horner, J.R. & M.B. Goodwin. 2006. Major cranial changes during *Triceratops* ontogeny. *Proceedings of the Royal Society B* **273**:2757-2761.
- Main, R.P., A. de Ricqlès, J.R. Horner & K. Padian. 2005. The evolution and function of thyreophoran dinosaur scutes: implications for plate function in stegosaurs. *Paleobiology* **31**:291-314.
- Sander, P.M. 2000. Longbone histology of the Tendaguru sauropods: implications for growth and biology. *Paleobiology* **26**:466-488.

#### TOPIC 5: The Cretaceous/Paleogene Extinction and Recovery

- Buffetaut, E. 2004. Polar dinosaurs and the question of dinosaur extinctions: a brief review. *Palaeogeography, Palaeoclimatology, Palaeoecology* **214**:225-231.
- Coxall, H.K., S. D'Hondt & J.C. Zachos. 2006. Pelagic evolution and environmental recovery after the Cretaceous-Paleogene mass extinction. *Geology* **34**:297-300.
- Robertson, D.S., M.C. McKenna, O.B. Toon, S. Hope, and J.A. Lillegraven. 2004. Survival in the first hours of the Cenozoic. *GSA Bulletin* **116**:760-768.
- Wilf, P., K.R. Johnson & B.T. Huber. 2003. Correlated terrestrial and marine evidence for global climate changes before mass extinction at the Cretaceous-Paleogene boundary. *Proceedings of the National Academy of Sciences* **100**:599-604.
- Wilf, P., C. Labandeira, K.R. Johnson & B. Ellis. 2006. Decoupled plant and insect diversity after the end Cretaceous extinction. *Science* **313**:1112-1115.