ACTA PALAEONTOLOGICA POLONICA

The dinosaur *Hadrosaurus foulkii*, from the Campanian of the East Coast of North America, with a reevaluation of the genus

Albert Prieto-Márquez, David B. Weishampel, and John R. Horner
Acta Palaeontologica Polonica 51 (1), 2006: 77-98

Hadrosaurus foulkii was the first dinosaur known outside Europe from partially complete skeletal elements. It is the holotype of the family Hadrosauridae and the subfamily Hadrosaurinae. The history of its discovery and taxonomy is reviewed, and the holotype of *H. foulkii* is redescribed. The holotype of *H. foulkii* lacks distinguishing characters; therefore, this taxon is a nomen dubium. It is not synonymous with species of *Gryposaurus* and/or *Kritosaurus*. We also reevaluate the taxonomy and osteology of *H. tripos, H. minor, H. cavatus, H. breviceps, H. paucidens*, and *Ornithotarsus immanis* . In agreement with previous studies, these taxa are considered nomina dubia due to the absence of distinguishing characters and are therefore referrable only to Hadrosauridae indeterminate; *H. paucidens* is referrable to Lambeosaurinae indeterminate. Finally, our phylogenetic analysis indicates that the holotype of *H. foulkii* belongs to a member of Euhadrosauria and, tentatively, of Hadrosaurinae.

Key words: Hadrosauridae, Cretaceous, East Coast, North America, phylogeny.

Albert Prieto-Márquez amarquez@bio.fsu.edu, Department of Biological Science, Florida State University, Tallahassee, Florida, 32306-1100, U.S.A.; David B. Weishampel dweisham@mail.jhmi.edu, Center for Functional Anatomy and Evolution, Johns Hopkins University, School of Medicine, Baltimore, Maryland 21205, U.S.A.; John R. Horner jhorner@montana.edu, Museum of the Rockies, Montana State University, Bozeman, Montana 59717, U.S.A.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Full text (800.6 kB)