



Revised diagnoses of *Hadrosaurus foulkii* Leidy, 1858 (the type genus and species of Hadrosauridae Cope, 1869) and *Claosaurus agilis* Marsh, 1872 (Dinosauria: Ornithopoda) from the Late Cretaceous of North America

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Hadrosauridae constitutes a very diverse clade of herbivorous dinosaurs that were extremely abundant during the Campanian–Maastrichtian (Late Cretaceous) of Europe, Asia, both Americas, and probably also Antarctica (Horner *et al.* 2004). The fact that hadrosaurids are one of the best-known clades of dinosaurs, represented by arguably the richest dinosaurian fossil record, contrasts with the scarcity of material and apparently undiagnostic nature of their type genus and species, *Hadrosaurus foulkii*. The holotype and only known specimen of *H. foulkii* is also historically significant for being the first skeletal remains of a dinosaur described outside Europe (Leidy 1858).

Recently, Prieto-Márquez *et al.* (2006) redescribed in detail the osteology of *H. foulkii* and revised the taxonomy of the genus *Hadrosaurus*. These authors concluded that *H. foulkii* is a nomen dubium because they found no autapomorphic or distinguishable characters in the type and only known materials of this taxon.

Here, I show that *Hadrosaurus foulkii* is actually diagnosable based on a combination of plesiomorphic and derived appendicular characters. An ancillary outcome of this study is the recognition of a diagnostic combination of iliac characters (in the context of the phylogenetic framework of Prieto-Márquez 2010) in *Claosaurus agilis*, a poorly known hadrosauroid outgroup to Hadrosauridae (Fig. 1) from the middle of the North American continent.

Institutional abbreviations

AMNH	American Museum of Natural History, New York, USA
ANSP	Academy of Natural Sciences of Philadelphia, Philadelphia, USA
FMNH	The Field Museum, Chicago, USA
IRSNB	Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium
IVPP	Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China
MOR	Museum of the Rockies, Bozeman, USA
MPC	Mongolian Paleontological Center, Academy of Sciences, Ulan Bataar, Mongolia
NHMUK	Natural History Museum, London, UK
PMU	Museum of Evolution, Uppsala University, Uppsala, Sweden
ROM	Royal Ontario Museum, Toronto, Canada
SM	Senckenberg Museum, Frankfurt, Germany
YPM	Yale Peabody Museum of Paleontology, Connecticut, USA
ZPAL	Institute of Paleobiology, Polish Academy of Sciences, Warsaw, Poland

Systematic Paleontology

Dinosauria Owen, 1842

Ornithischia Seeley, 1887

Ornithopoda Marsh, 1881