The taxonomy of species assigned to *Camptosaurus* (Dinosauria: Ornithopoda)

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**Abstract**

The taxonomic affinities of species assigned to *Camptosaurus* are reassessed in light of firsthand examination of the relevant specimens and a new phylogenetic analysis, the first to incorporate all putative species of *Camptosaurus*. “*Camptosaurus*” *valdensis* is found to be an indeterminate dryosaurid. The species *C. pre*stwichii*, C. aphanoecestes*, and *C. depressus* differ in several important details from the type species, *C. dispar*, and are assigned to different genera as *Cumnoria prestwichii*, *Uteodon aphanoecestes gen. et comb. nov.*, and *Osmakasaurus depressus gen. et comb. nov*. The recent assignment of *O. depressus* to the genus *Planicoxa* is considered unjustified.

**Key words:** *Camptosaurus* *disp*ar, *Cumnoria prestwichii*, *Uteodon aphanoecestes gen. et comb. nov.*, *Osmakasaurus depressus gen. et comb. nov.*, “*Camptosaurus*” *valdensis*, *Planicoxa venenica*

**Introduction**

The type species of the genus *Camptosaurus*, *C. dispar*, was established by Marsh (1879) based upon material from Como Bluff Quarry 13 in the Upper Jurassic Salt Wash Member of the Morrison Formation (Foster 2003; Carpenter & Wilson 2008). Since then, numerous iguanodontian species and specimens from the Callovian to the Aptian, a span of approximately 40 million years, of the United States and England have been placed in *Camptosaurus*. Some, such as *Callovosaurus leedsi* (Lydekker 1889; Galton 1980; Ruiz-Omeñaca et al. 2007), *Owenodon hoggii* (Owen 1874; Norman & Barrett 2002; Galton 2009), and the holotype skull of *Theiophytalia kerri* (Brill & Carpenter 2007) have already been reassigned to other genera. *C. depressus* (Gilmore 1909) has also been reassigned, to the genus *Planicoxa* as *P. depressa* (Carpenter & Wilson 2008), though this assignment is not upheld herein. In contrast, *C. prestwichii* (Hulke 1880) is almost universally regarded by recent authors as referable to *Camptosaurus* (Galton & Powell 1980; Norman 2004; Carpenter & Wilson 2008; but see Naish & Martill 2008). The recently named species *C. aphanoecestes* (Carpenter & Wilson 2008) has not been extensively discussed elsewhere and its placement in *Camptosaurus* has not been tested.

To elucidate the relationships of the various species assigned to *Camptosaurus*, they were incorporated into a new phylogenetic analysis of basal iguanodont relationships. Apart from *C. dispar*, none of these species had ever been included in such an analysis. Determining the interrelationships of the putative species of *Camptosaurus* to each other and to other basal iguanodonts has implications for the taxonomy and the spatial and temporal distributions of the genus.

**Note on Stratigraphy**