

***Galveosaurus herreroi*, a new sauropod dinosaur from Villar del Arzobispo Formation (Tithonian-Berriasiian) of Spain**

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Abstract

The Galve fossil sites (province of Teruel, Spain) have provided many Mesozoic vertebrate remains. Among these are isolated sauropod dinosaur bones, including one taxon reported only from this locality, *Aragosaurus ischiaticus*. Here, a new species is named from the Tithonian deposits of the Villar del Arzobispo Formation, of Galve (Teruel province, Spain), *Galveosaurus herreroi* gen. et sp. nov. It is represented by two humeri, one sternal plate, one ischium, one scapula, one cervical vertebra, one caudal dorsal vertebra, five caudal vertebrae, one Y-shaped chevron and some fragments of ribs. This new species is an eusauropod dinosaur that shows primitive features such as a slightly curved ischium with an unexpanded distal end, amphicoelous vertebrae, neural spine not bifid and an unforked chevron. It appears to be closer to cetiosaurid genera such as *Barapasaurus* or *Cetiosaurus*. This new basal sauropod lived at the same time as the eusauropod *Lourinhasaurus alenquerensis* from Portugal. These are both relict genera that survived in the Iberian Peninsula when more derived neosauropods, such as *Losillasaurus* or *Dinheirosaurus*, had taken over other parts of Iberia.

Key words: Upper Jurassic, Spain, Dinosauria, Eusauropoda, Cetiosauridae, *Galveosaurus herreroi*

Introduction

The Galve fossil sites have provided the remains of more than fifty Mesozoic vertebrate taxa, including some new genera (Sánchez 2002). Among these new taxa is the sauropod *Aragosaurus ischiaticus* (Sanz *et al.* 1987), traditionally considered a camarasaurid dinosaur, but actually ranked as Eusauropoda incertae sedis (Upchurch *et al.* 2004). Here a new sauropod is described, discovered by the amateur palaeontologist J. M. Herrero Marzo in beds of Upper Jurassic (Kimmeridgian-Portlandian according to Díaz &