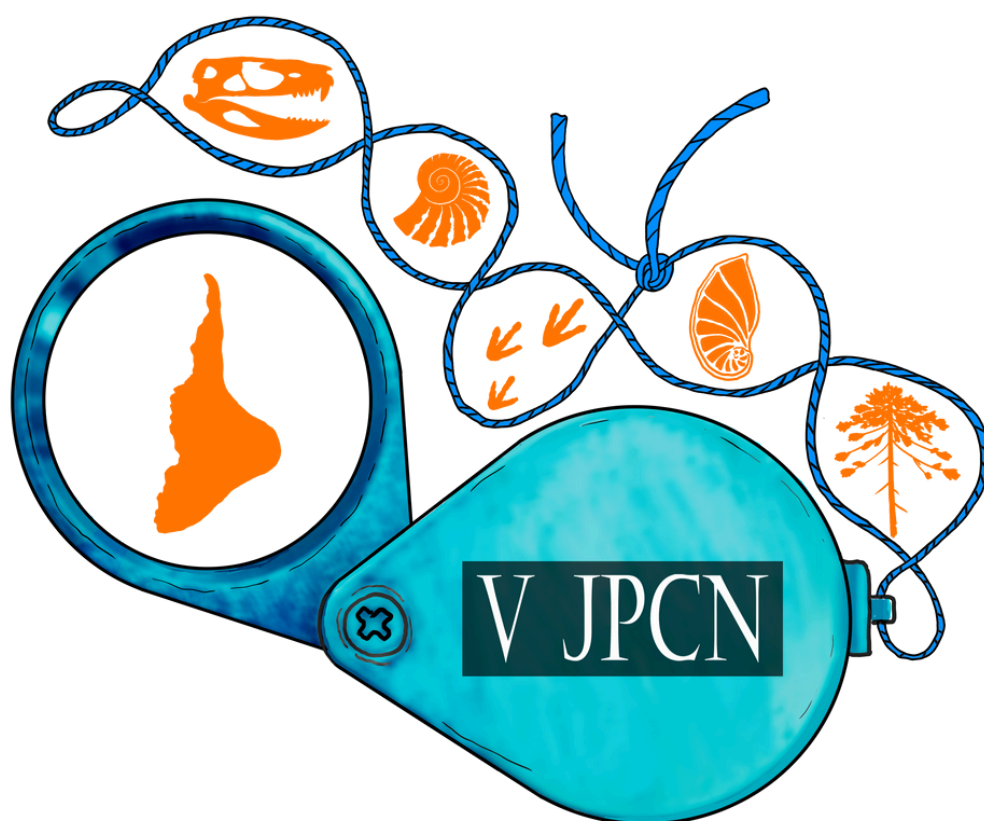


V JORNADAS DE PALEONTOLOGÍA DE LA CUENCA NEUQUINA

SENILLOSA - NEUQUÉN

9-13 DE SEPTIEMBRE DE 2025



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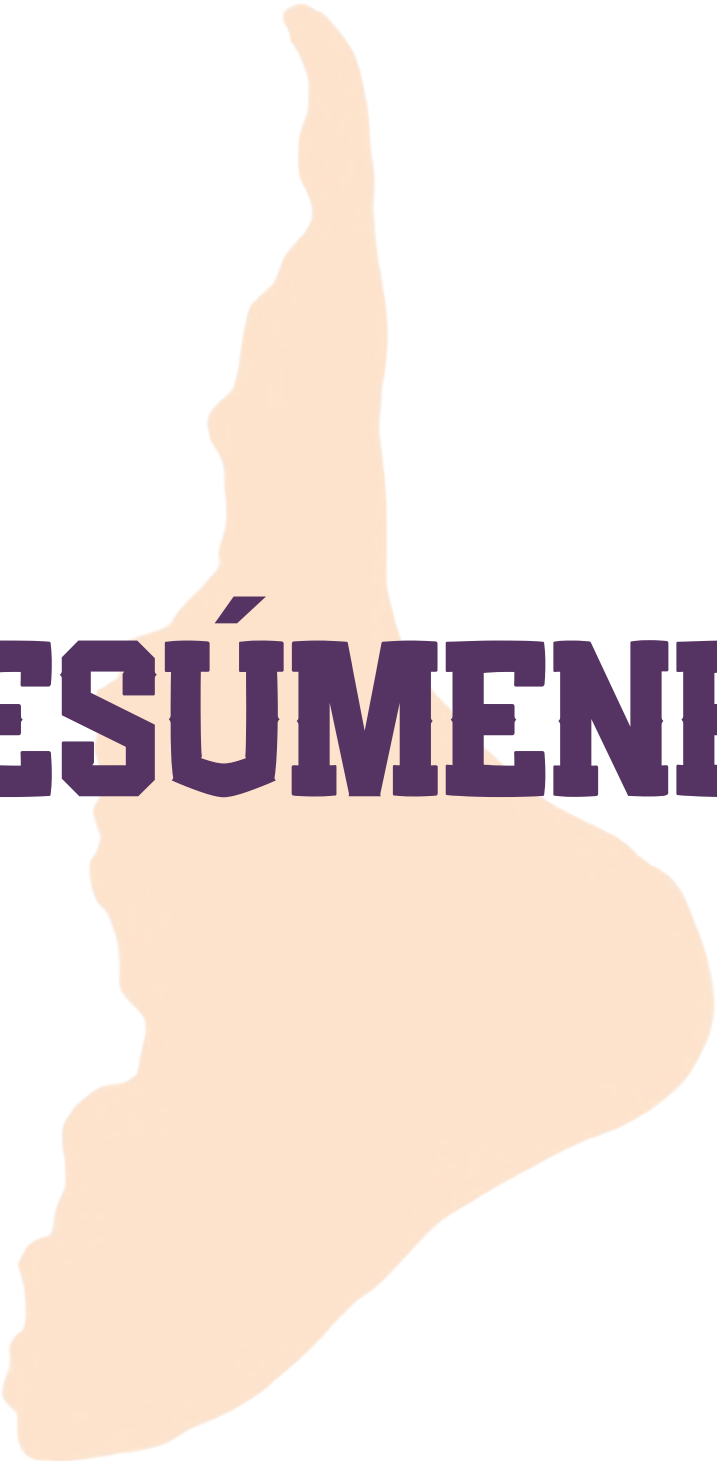
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RESÚMENES

DISASSEMBLING THE GIANTS: NEW PHYLOGENETIC ANALYSIS OF TITANOSAURIA AND THEIR BIOSTRATIGRAPHICAL AND PALEOBIOGEOGRAPHIC IMPLICATIONS

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Titanosaur dinosaurs are the sauropod lineage with the broadest temporal range, spanning the entire Cretaceous period and having an extensive geographic distribution, encompassing virtually all major landmasses that existed during that period. Specific feeding adaptations and possible biogeographic models have been proposed for some taxa. However, current phylogenetic models fall in solving lower-level relationships within Titanosauria, generating conflicting topologies respect to particular clades. Here we present a new dataset including a combination of previous iterations of several matrices, in addition to new characters and modifications of previous ones based on morphological variations within titanosaurs and their immediate stem. The novel dataset comprises of 576 characters and 160 taxa, covering the craniodental, axial, appendicular and dermic skeleton anatomy of the group. We made a heuristic, equally weighted parsimony analysis. It was carried out using TNT. Moreover, several taxa, often neglected in previous analysis, are considered as pivotal for the rearrangement of previous known clades, such as *Ampelosaurus atacis*, *Diamantinasaurus matildae*, *Gandititan cavocaudatus*, *Choconsaurus baileywillisi* or *Inawentu oslatus*. As results, we found support of Diamantinasauria as the sister group of Titanosauria, a basal Nemegtosauridae, *Argentinosaurus* and other forms are found as a basal clade among titanosaurian radiation, *Rapetosaurus krausei* is found closely related to *Ampelosaurus atacis* and other European taxa, saltasaurids are the sister clade to other South American taxa. Some inferences are made in basis to the results of the analysis, as the assignation of *Baalsaurus mansillai* as junior synonym of *Futalognkosaurus dukei*. The results are consistent with biostratigraphical and paleobiogeographical models for the Cretaceous worldwide, with an early origin of Titanosauria in the late Jurassic, dispersal events during all the Cretaceous between Gondwanan and Laurasian landmasses and vicariant events and local extinctions during the Late Cretaceous.

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