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# ANAIS

A PALEONTOLOGIA CELEBRANDO A VIDA



**CRANIAL FEATURES OF *BAURUSUCHUS SALGADOENSIS*  
CARVALHO, CAMPOS & NOBRE 2005, A BAURUSUCHIDAE  
(MESOEUCROCODYLIA) FROM THE ADAMANTINA FORMATION,  
BAURU BASIN, BRAZIL: PALEOICHOLOGICAL, TAXONOMIC  
AND SYSTEMATIC IMPLICATIONS**

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Some features of the skull of ***Baurusuchus salgadoensis*** Carvalho, Campos & Nobre 2005, a baurusuchid Mesoeucrocodylia from the Adamantina Formation of Bauru Basin, are described, discussed and reinterpreted. The punctures and perforations of the skull of ***B. salgadoensis***, one of them previously described as the antorbital fenestrae, were interpreted as tooth-marks. The probable producer is a medium or large ziphodont terrestrial archosaur, possibly a baurusuchid or Abelisauridae. The choanae of ***B. salgadoensis*** bears some similarities with ***Stratiotosuchus***. The choanae and the palatal surfaces seem to be similar among baurusuchids, notosuchids and sphagesaurids with minor differences. This similarity is congruent with recent phylogenetic hypotheses, supporting a closer relationship among these Cretaceous Mesoeucrocodylia taxa.