3D models related to the publication: Re-description of the braincase of the rebbachisaurid sauropod *Limaysaurus tessonei* and novel endocranial information based on CT scans

Ariana Paulina-Carabajal¹*, Jorge Calvo²

¹Instituto de Investigaciones en Biodiversidad y Medioambiente (INIBIOMA), CONICET-Universidad Nacional del Comahue, Quintral 1250, 8400, San Carlos de Bariloche, Argentina
²Grupo de transferencia Proyecto Dino- Fac. Ingeniería-Museo Geología y Paleontología, Universidad Nacional del Comahue. Ruta prov. 51, km 65, Neuquén, Argentina.

*Corresponding author: a.paulinacarabajal@conicet.gov.ar

Abstract
This contribution contains the 3D models described and figured in the following publication: Paulina-Carabajal A and Calvo JO 2021. Re-description of the braincase of the rebbachisaurid sauropod *Limaysaurus tessonei* and novel endocranial information based on CT scans. Anais da Academia Brasileira de Ciências 93(Suppl. 2): e20200762 https://doi.org/10.1590/0001-3765202120200762

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Table 1. Related model. MUCP: Museo de la Universidad Nacional del Comahue, Argentina.

<table>
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<tr>
<th>Inv nr.</th>
<th>Taxon</th>
<th>Description</th>
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<tr>
<td>MUCPv-205</td>
<td><em>Limaysaurus tessonei</em></td>
<td>Renderings of the virtually isolate braincase, brain, and right inner ear.</td>
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INTRODUCTION

Rebbachisaurids are sauropod dinosaurs that lived from the lower to the upper Cretaceous of South America, Europe and Africa (Bonaparte 1997; Upchurch et al. 2004; Apesteguia et al. 2010; Whitlok 2011, Mannion & Barret 2013). However, braincase remains of these sauropods are scarce, being known only for *Nigersaurus taqueti* from Africa (Sereno et al. 1999, 2007), and *Limaysaurus tessonei* (=Rebbachisaurus in Calvo & Salgado 1995) and an unnamed rebbachisaurid (Paulina-Carabajal et al. 2016) from Argentina. The cranial endocast and inner ear of *L. tessonei* is the most complete paleoneurological data for a rebbachisaurid sauropod so far (Table 1 and Fig. 1).

METHODS

The 3D surfaces were extracted semi-automatically within MIMICS 18.0 using the segmentation threshold selection tool. The 3D surface models are provided in .ply format, and can therefore be opened with a wide range of freeware.

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BIBLIOGRAPHY


Figure 1. Renderings of the braincase and other articulated bones of Limaysaurus tessonei MUCPv-205 in right lateral (slightly anterior) view (A); braincase (lateral margins of the orbit and other articulated skull bones were removed to allow observation of the complete lateral wall) in left lateroventral view; cranial endocast in right lateral (slightly anterior) view (C). In the right image, the bones are semitransparent to allow observation of the brain and inner ear. Scale bar in A and B equals 10 mm.
