The endocranial cast of *Microchoerus erinaceus* (Euprimates, Tarsiiformes)

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Abstract: This contribution contains the labelled 3D model described and figured in the following publication: Ramdarshan A., Orliac M.J. 2015. Endocranial morphology of *Microchoerus erinaceus* (Euprimates, Tarsiiformes) and early evolution of the Euprimates brain. American Journal of Physical Anthropology. [http://dx.doi.org/10.1002/ajpa.22868](http://dx.doi.org/10.1002/ajpa.22868)

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TECHNICAL AND SPECIMEN-RELATED PARAMETERS

<table>
<thead>
<tr>
<th>Specimen inventory number</th>
<th>UM-PRR1771</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td><em>Microchoerus erinaceus</em></td>
</tr>
<tr>
<td>Repository institution</td>
<td>Université de Montpellier, France</td>
</tr>
<tr>
<td>3D data acquisition method</td>
<td>X-ray µCT</td>
</tr>
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<td>3D data acquisition facility model</td>
<td>Scanco UCT80</td>
</tr>
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<td>3D data acquisition operator</td>
<td>Renaud Lebrun</td>
</tr>
<tr>
<td>Voxel size of original dataset</td>
<td>0.050 mm</td>
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<tr>
<td>Author of derived 3D surface model</td>
<td>Orliac M.J., Ramdarshan A.</td>
</tr>
<tr>
<td>Model ID</td>
<td>M3#15_UM-PRR1771</td>
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<tr>
<td>Model short description</td>
<td>The 3D model corresponds to the endocranial cast and sinuses of <em>Microchoerus erinaceus</em>. Labels of the different features are available in .flg format.</td>
</tr>
</tbody>
</table>

METHODS

The three-dimensional reconstruction of the endocranial cast and sinuses of the Late Eocene tarsiiform *Microchoerus erinaceus* was obtained by computerized microtomography reconstruction. The specimen UM-PRR1771 was collected during field excavation in the locality of Perrière (MP 17b, ca. 37 Ma, BiochroM’97), a fissure filling from the Quercy region in the South of France, by the paleontological team of the Institut des Sciences de l’Évolution, Montpellier. The 3D segmentation of the endocast and sinuses was performed using the segmentation threshold selection tool of AVIZO 7.1 (Visualization Sciences Group). The different elements were separated in two labelfields. The 3D model is composed of two .vtk surface files, one .flg label file, and the whole model can be opened and visualized with ISE-MeshTools (Lebrun, 2014).

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BIBLIOGRAPHY

