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

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TECHNICAL AND SPECIMEN-RELATED PARAMETERS

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

METHODS

The three-dimensional reconstruction of the endocranial cast and sinuses of the Late Eocene tarsiiforme *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'Evolution, 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

BiochroM'97 (collectif). 1997. Synthèses et Tableaux de corrélations. In: Aguilar, J.-P., Legendre, S., Michaux, J. (Eds.), Actes du Congrès BiochroM'97. Mémoires et Travaux de l'École Pratique des Hautes Études, Institut de Montpellier, Montpellier, pp. 769-805.

Lebrun, R., 2014. ISE-MeshTools, a 3D interactive fossil reconstruction freeware. 12th Annual Meeting of EAVP, Torino, Italy.

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