Dataset

3D models related to the publication: Vitaceae seed and wood fossils from the Eocene–Oligocene phosphatic fissure fillings of Quercy, southwestern France

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Abstract
The present 3D dataset contains the 3D models of two fossil seeds of Vitaceae from the Quercy fossiliferous area, southwestern France. One seed comes from the Eocene locality of Fontoffre 2, and the other from the Oligocene locality of Baraval. These seeds document new fossil species within the Vitaceae family and illustrate the morphological diversity of this family during the Palaeogene. The CT scan data were processed with ImageJ and Mimics Innovation Suite version 1.13 to reconstruct the specimens. Here we provide .stl files that can be easily opened with the software MeshLab.

Keywords: Eocene, Oligocene, Seed, Vitis

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Inv nr.	Taxon	Description
M3#1933	*Vitis quercyensis*	µCT scan of the seed UM-FTF2-167
M3#1930	*Vitis quercyensis*	surface of the seed UM-FTF2-167
M3#1931	*Vitis praerotundifolia*	µCT scan of the seed UM-BAV-660
M3#1932	*Vitis praerotundifolia*	surface of the seed UM-BAV-660

Table 1. List of 3D data. Collection: Université de Montpellier, Institut des Sciences de l'Evolution.

INTRODUCTION

In Chen et al. (2026), we identified and classified new fossil seeds from the Quercy region, France. Their morphology was studied using micro-CT scan analyses. Two new species are described: *Vitis quercyensis* (Figure 1A and table 1) and *Vitis praerotundifolia* (Figure 1B and table 1). This work highlights extinct morphological diversity within *Vitis* and contributes to a better understanding of the floristic changes that marked the Eocene–Oligocene transition in Western Europe.

METHODS

Two seeds (UM-FTF2-167 and UM-BAV-660) were CT-scanned at the Montpellier Ressources Imageries platform using an Easy-Tom 150 kV micro-CT scanner (voxel size x = y = z = 8.43 µm) with 1264 projection images. The CT scan data were processed with ImageJ and Mimics Innovation Suite version 1.13 to reconstruct the specimens. The 3D surface models are provided in .stl format and can therefore be opened with MeshLab, a free software program.

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BIBLIOGRAPHY

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Figure 1. A. Seed of *Vitis quercyensis* (UM-FTF2-167) and CT-Scan transverse section. B. Seed of *Vitis praerotundifolia* (UM-BAV-660) and Ct-Scan transverse section. Scales: 2 mm.

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