

In the fossil state it occurs in the Septaria-clays of North Germany (Reuss), in the Schlier of Lower Austria (Karrer), in the Subapennine Tertiaries of Italy, and in clays of similar age near Malaga (Soldani, Parker and Jones, &c.).

Cristellaria orbicularis, d'Orbigny, sp. (Pl. LXIX. fig. 17).

'Nuclei conico rotundati,' Soldani, 1798, Testaceographia, vol. ii. App. p. 138, pl. i. fig. 12, p. P.
Robulina orbicularis, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 288, pl. xv. figs. 8, 9.
 ,, *imperatoria*, Id. 1846, For. Foss. Vien., p. 104, pl. v. figs. 5, 6.

The chambers of *Cristellaria orbicularis* present the same general form and disposition as those of *Cristellaria vortex*, but the periphery of the test is extended so as to form a well-defined wing or keel. The two species in fact bear just the same relation to each other as *Cristellaria rotulata* and *Cristellaria cultrata*.

The carinate form has been found at one Station in the North Atlantic, off Sombrero Island, West Indies, 450 fathoms; and at five in the South Pacific, namely—off Kandavu, 210 fathoms; off Tahiti, 420 fathoms; off the west coast of New Zealand, 150 fathoms; off Sydney, New South Wales, 410 fathoms; and off East Moncœur Island, Bass Strait, 38 fathoms.

As a fossil it occurs in the Subapennine formations of Central Italy, and in the Miocene of the Vienna Basin.

Cristellaria crassa, d'Orbigny (Pl. LXX. fig. 1, a.b).

Cristellaria crassa, d'Orbigny, 1846, For. Foss. Vien., p. 90, pl. iv. figs. 1-3.
Robulina deformis, Reuss, 1851, Zeitschr. d. deutsch. geol. Gesell., vol. iii. p. 70, pl. iv. fig. 30.

This is a biconvex variety, very thick in proportion to its diameter, having only about three chambers visible externally, and furnished with a narrow marginal keel.

Cristellaria crassa has been found living amongst allied forms, off Kandavu, 210 fathoms, but not elsewhere.

The locality given by d'Orbigny for his fossil specimens is the Miocene of Baden near Vienna; that given by Reuss, the Septaria-clay of Hermsdorf near Berlin.

Cristellaria nitida, d'Orbigny (Pl. LXX. fig. 2, a.b).

'Nautili *Lituitati*,' Soldani, 1798, Testaceographia, vol. i. pt. 1, p. 64, pl. lvi. figs. O. P.
Cristellaria nitida, d'Orbigny, 1826, Ann. Sci. Nat., vol. vii. p. 291, No. 5.
Cristellaria cassis (pars), Parker, Jones, and Brady, 1871, Ann. and Mag. Nat. Hist., ser. 4, vol. viii. p. 244, pl. x. fig. 88.

A feeble modification belonging to the "*cassis*" and "*mamilligera*" group. The shell is compressed and carinate and the earlier sutures limbate. It is a doubtful and unsatisfactory species.

The recent specimens are from off the Philippines, 95 fathoms.