

Genus 1. *Corticium*, O. Schmidt.

The mesoderm of the ectosome and hypomere consists of chondrenchyma, which also forms the walls of the larger water-canals. The spicules are tetractinose asters and heterolophose candelabra.

Corticium candelabrum, O. Schmidt.

Corticium candelabrum, O. Schmidt, Spong. Adriat. Meeres, p. 42, pl. iii. fig. 25, 1862.

” ” Kölliker, Icones Histiologicæ, p. 67, 1864.

” ” O. Schmidt, Spong. Adriat. Meeres, Suppl., ii. p. 2, pl. i. fig. 2, 1866.

” ” F. E. Schulze, Zeitschr. f. wiss. Zool., Bd. xxxv. p. 410, pl. xxii., 1881.

Sponge.—Massive, irregularly rounded or nodular, with a smooth surface; or plate-like, flat, thin, incrusting, irregularly lobate, with a more or less smooth or tubercular surface; when very young, up to 1 mm. in diameter, rounded knob-like, attached by the flat lower surface of the hypomere. Pores, the simple circular openings of the incurrent canals, of various size, up to 0.3 mm. in diameter. Oscule, a slit-like opening in the hypomere. Canal-system diplodal, flagellated chambers pear-shaped, 0.045 mm. in diameter. The pinnacocytes of the outer surface and the adjacent chondrocytes contain pigment granules.

Spicules.—1. *Microcalthrops*, uniformly strewn through the mesoderm; actines usually curved sigmately, 0.036 to 0.04 mm. in length. 2. *Candelabra*, the cladi of the ecactine spined on the outer convex side, those of the esactines fewer in number and smooth, not spined. The candelabra form a single layer beneath the epithelium of the exterior and of the larger water-canals.

Colour.—Light yellow, brown, black, probably dependent on locality. Size, up to 60 mm. in diameter.

Habitat.—The Adriatic (O. Schmidt) and Zebu (F. E. Schulze).

Corticium versatile, O. Schmidt.

Corticium versatile, O. Schmidt, Spong. Meerb. Mexico, p. 69, pl. ix. fig. 5, 1880.

Sponge.—Forming crusts.

Spicules.—*Candelabra*, actines variously cladose, one frequently acladose. The number of cladi borne by each actine varies from two to five.

Habitat.—St. Vincent; depth, 95 fathoms.

Genus 2. *Calcabrina*,¹ n. gen.

Corticidæ containing spinose microrabds, in addition to tetractinose asters or candelabra.

¹ A proper name, *vide* Dante, Inferno, canto xxi. line 118.