

DESCRIPTION OF GENERA AND SPECIES.

TRIBE TETRACTINELLIDA, Marshall.

Demospongiæ with triæne or tetractine spicules or "Lithistid" desmas.

Order I. CHORISTIDA, Sollas.

Tetractinellida with triæne or tetractine spicules, but without "Lithistid" desmas.

Suborder I. SIGMATOPHORA.

Choristida in which the characteristic microscleres are sigmaspires.

Family I. TETILLIDÆ, Sollas.

Sigmatophora in which the characteristic megascleres are slender protriænes.

Tetilla, O. Schmidt.

The ectosome is never a cortex; the mesoderm is a collenchyma; and the chamber system eurypylous.

Tetilla sandalina, Sollas (Pl. I. figs. 16-27).

Tetilla sandalina, Sollas, Prelim. Account, Sci. Proc. Roy. Dubl. Soc., vol. v. p. 179, 1886.

Sponge (Pl. I. fig. 16) more or less fusiform or ellipsoidal; with a single oscule at one end, and papillose at the other; ectosome not developed. Mesoderm very small in quantity, collenchymatous; flagellated chambers large, round or elliptical, eurypylous.

Spicules.—I. Megascleres. 1. *Oxea* (Pl. I. fig. 20), fusiform, anisoactinate, tapering