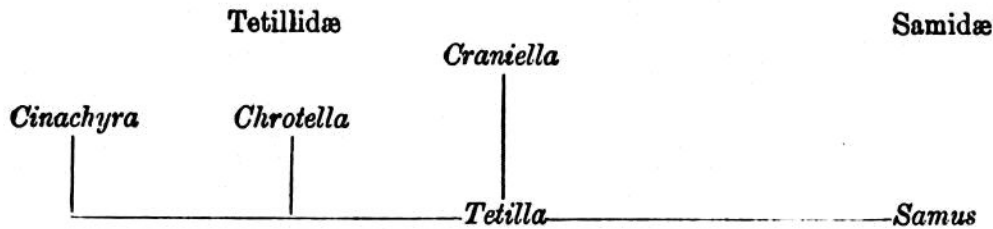


## PHYLOGENY OF THE SIGMATOPHORA.



## Suborder II. ASTROPHORA, Sollas.

*Asterophora*, Sollas, Encyclopædia Britannica, vol. xxii. p. 423, 1887.

Choristida in which one or more of the microscleres is an aster.

## Demus I. STREPTASTROSA, n. n.

*Spirastrosa*, Sollas, Encyclopædia Britannica, vol. xxii. p. 423, 1887.

Astrophora in which one of the microscleres is a spiraster, or when this is not the case one of the megascleres is a calthrope.

The name originally given to this group, *Spirastrosa*, is too similar to that adopted by Ridley and Dendy for a Monaxon family, *Spirastrellidæ*, and for the sake of distinction *Streptastrosa* is now substituted.

## Family I. THENEIDÆ, Sollas.

Group *Theneanina*, Carter, Ann. and Mag. Nat. Hist., ser. 5, vol. xi. p. 354, 1883.

*Theneidæ*, Sollas, Sci. Proc. Roy. Dubl. Soc., vol. v. p. 178, 1886.

*History*.—This family is founded on the genus *Thenea*, Gray, who evidently had some notion of the value of the spiraster in classification; a point that was subsequently insisted on by myself both as distinguishing *Thenea* from *Stelletta* and as allying it with *Pæcillastra*.<sup>1</sup> It was next made use of by Carter, who chose it as the distinctive character of a subfamily, which he named *Theneanina*, including in it the genera *Thenea* and *Pæcillastra*. The group is here regarded as of family rank.

*Definition*.—*Streptastrosa* in which the microscleres are spirasters or amphisters, and oxyasters or microxeas.

The ectosome never forms a cortex. The mesoderm is a collenchyma. The chamber-system is eurypylous.

The family cannot be defined by the spiraster alone, as this is also present in the *Pachastrellidæ*, which no doubt are very closely allied to the *Theneidæ*, bearing somewhat the same relation to them that the simpler genera of *Tetillidæ* do to the more complex.

<sup>1</sup> Sollas, *Ann. and Mag. Nat. Hist.*, ser. 5, vol. ix, pp. 434, 443,