

## Suborder I. HOPLOPHORA.

Lithistida provided with special ectosomal spicules, and usually with some form of microsclere.

## Demus I. TRIÆNOSA.

Hoplophora in which the ectosomal spicules are some form of triæne, and in which microscleres (spirasters, amphiasters, or microrabds) are invariably present. The chamber-system is aphodal.

## Family I. T E T R A C L A D I D Æ (Zittel).

*Tetracladina*, Zittel, Abhandl. d. k. baier. Akad. d. Wiss., Bd. i. p. 100.

Triænosa in which the desma is tetracrepid.

Genus 1. *Theonella*, Gray.

*Theonella*, Gray, Proc. Zool. Soc. Lond., p. 438, 1868.

„ Zittel, Abhandl. d. k. baier. Akad. d. Wiss., Bd. i. pp. 103, 151, 1878.

Tetracladidæ with one or more simple oscules, pores in sieves generally distributed. Microsclere a microstrongyle.

Type—*Theonella swinhœi*, Gray (p. 284).

Genus 2. *Discodermia*, Bocage.

*Discodermia*, Bocage, Journ. d. sc. math. phys. et nat. Lisbonne, p. 160, pl. xi. fig. 1, 1869.

„ Zittel, Abhandl. d. k. baier. Akad. d. Wiss., Bd. i. p. 151, 1878.

Tetracladidæ with differentiated oscular and poriferous surfaces; the pores in sieves, the oscules numerous and simple. The microscleres are microxeas and microstrongyles.

Type—*Discodermia polydiscus*, Bocage (p. 330).

Genus 3. *Racodiscula*, Zittel.

*Racodiscula*, Zittel, Abhandl. d. k. baier. Akad. d. Wiss., Bd. i. p. 151, 1878.

Tetracladidæ with discotriænes; the microscleres are microrabds and spirasters; the pores and oscules are simple.

Type—*Racodiscula polydiscus* (O. Schmidt) (p. 332).