

III

ELEUTHEROBLASTEÆ.

No hydrothecæ or gonangia.
Nutritive zooids not forming permanent colonies. No differentiated gonophores.

HYDRINÆ, . . .

{ Hydrosome represented by a free hydranth. No perisarc.

{ Hydridæ, . . . *Hydra*.
Protohydridæ, . . . *Protohydra*.

IV.

HYDROCORALLIA.

A skeleton formed by a calcareous corallum (cœnosteum) permeated by a system of ramified and inosculating cœnosarcal tubes from which the hydranths (gasterozooids) are developed

MILLEPORINÆ, . . .

{ Hydranths lodged in receptacles of the corallum which are divided by transverse septa into a series of superimposed chambers.

Milleporidæ, . . . *Millepora*.

STYLASTERINÆ, . . .

{ Hydranths lodged in receptacles of the corallum which are destitute of transverse septa.

Stylasteridæ, . . . *Sporadopora, Stylaster, Distichopora, &c.*

V.

MONOPSEA.

Free Hydromedusæ which are developed directly from the egg without the intervention of a polypoid trophosome. Carrying on the umbrella margin auditory clubs with endodermal otolites.

TRACHOMEDUSÆ, . . .

{ Gonads in the course of the radial canals.

{ Petasidæ, . . . *Petapus, Aglauropsis, Olindias, &c.*
Trachynemidæ, . . . *Trachynema, Rhopalonema, Pectis, &c.*
Aglauridæ, . . . *Aglaura, Aglantha, Persa, &c.*
Geryonidæ, . . . *Liriope, Glossocodon, Geryonia, &c.*

NARCOMEDUSÆ, . . .

{ Gonads in the walls of the stomach.

{ Cunanthidæ, . . . *Cunantha, Cunoctona, Cunina, &c.*
Peganthidæ, . . . *Polyzenia, Pegasia, Pegantha, &c.*
Æginidæ, . . . *Ægina, Æginopsis, Æginodorus, &c.*
Solmaridæ, . . . *Solmissus, Solmundus, Solmaris, &c.*

VI.

RHABDOPHORA.

Hydranths replaced by sarco-styles. Hydrocaulus traversed by a chitinous longitudinal rod.

GRAPTOLOIDEA, . . .

{ Hydrosome developed from a persistent basal segment (sicula). Cœnosarcal canals giving origin each to a single series of sarco-styles.

Monoprionidæ, . . . *Monograptus, Rastritas, Didymograptus, &c.*
Diprionidæ, . . . *Diplograptus, Climacograptus, &c.*

RETIOLOIDEA, . . .

{ Sicula not present. Cœnosarcal canal giving origin to two series of sarco-styles.

Glossograptidæ, . . . *Glossograptus, Lasiograptus, &c.*
Gladiograptidæ, . . . *Retiolites, Trigonograptus, &c.*