

ANATOMY.

This section is intended merely as a short account of what is known of the anatomy of the group, without entering into much histological detail. It is considered useful to insert this upon two accounts, firstly, as a means of giving and explaining a complete system of the nomenclature of parts in the group, a matter which has always been involved in considerable confusion; and secondly, as a basis from which to start in the consideration of the structure of the new genera and species, so that their peculiarities may be more readily noticed and appreciated.

The minute anatomy of certain special forms (*e.g.*, *Culeolus murrayi*, see page 91) will be found in their proper places in the systematic part of the memoir.

Classification.

The following is the scheme of classification of the Tunicata which I have adopted:—

Class—TUNICATA.

Order I. ASCIDIACEA.

Sub-order I. *Ascidia Simplicis.*

- Family 1. Molgulidæ.
- „ 2. Cynthiidæ.
- „ 3. Ascidiidæ.
- „ 4. Clavelinidæ.

Sub-order II. *Ascidia Compositæ.*

- Family 1. Botryllidæ.
- „ 2. Didemnidæ.
- „ 3. Distomidæ.
- „ 4. Polyclinidæ.
- „ 5. Diplosomidæ.

Sub-order III. *Ascidia Salpiformes.*

Family Pyrosomidæ.

Order II. THALIACEA.

- Family 1. Doliolidæ.
- „ 2. Salpidæ.

Order III. LARVACEA.

Family Appendiculariidæ.