

PLATE III.

Figs. 1-7.—*Monocaulus imperator* (p. 5).

Fig. 1.—The hydranth and gonophores, with the distal portion of the stem; natural size.

Fig. 2.—The proximal end of the stem; natural size.

Fig. 3.—One of the branching peduncles of the gonosome with its clusters of gonophores; magnified about 15 diameters.

Fig. 4.—A portion of a transverse section of the wall of the stem; magnified about 12 diameters, and slightly diagrammatic.

a. Ectoderm.

b. Elastic tissue of the stem.

c. Endoderm.

d. Longitudinal canals of the endoderm.

Fig. 5.—Portion of stem seen from the outer surface after maceration; magnified 50 diameters.

a. Elastic tissue partly denuded of the ectoderm.

b. Some of the ectoderm cells still adhering to the outer surface of the elastic tissue.

Fig. 6.—Some of the fibres of the elastic coat breaking up into finer fibrillæ; magnified 100 diameters.

Fig. 7.—Outline of a transverse section of the stem, showing the manner in which the walls are thrown into folds by the action of the elastic coat; slightly enlarged.