

## EXPLANATION OF THE PLATES.

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The figures were copied from my pencil drawings with the exception of Plates II. and VII., which I drew on stone from the specimens.

Plates I., III.–VI., VIII.–XIII., XVI., XIX., XX., XXII., XXVI., XXXII.–XXXVII., XXXIX.–XLII., and XLIX. were lithographed and printed by Dobb & Co., Liverpool; while plates XIV., XV., XVII., XVIII., XXI., XXIII.–XXV., XXVII.–XXXI., XXXVIII., and XLIII.–XLVIII. were lithographed and printed by Mr. F. Huth, Edinburgh.

It should be stated that some of the anatomical figures (*e.g.*, some of those representing the structure of the Ascidiozooids, and some of the branchial sacs) are “combination figures,” formed of portions drawn from several different specimens and pieced together.

The following powers were used in drawing the figures for the plates :—

S. 1 =	Swift's 1 inch objective,	magnifying about	50 diameters.
S. $\frac{1}{4}$ =	” $\frac{1}{4}$ ”	”	230 ”
S. $\frac{1}{8}$ =	” $\frac{1}{8}$ ”	”	330 ”
Z. $\frac{1}{1\frac{1}{2}}$ =	Zeiss' $\frac{1}{1\frac{1}{2}}$ objective (oil immersion),	magnifying about	950 diameters.

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### LIST OF THE ABBREVIATIONS.

<p><i>a.</i> . . . . . Anus.</p> <p><i>ab, abd.</i> . . . . . Abdomen of Ascidiozoid.</p> <p><i>ad.</i> . . . . . Adhering appendage.</p> <p><i>ap.</i> . . . . . Appendage from body of Ascidiozoid.</p> <p><i>at.</i> . . . . . Atrial aperture.</p> <p><i>at.l.</i> . . . . . Atrial languet.</p> <p><i>at.n.</i> . . . . . Nerves arising from atrial end of ganglion.</p> <p><i>at.tn.</i> . . . . . Atrial tentacles.</p> <p><i>b.c.</i> . . . . . Blood-corpuscles.</p> <p><i>bl.</i> . . . . . Bladder cells in test.</p> <p><i>br.</i> . . . . . Branchial aperture.</p>	<p><i>br.f.</i> . . . . . Longitudinal folds in branchial sac.</p> <p><i>br.l.</i> . . . . . Branchial lobe.</p> <p><i>br.n.</i> . . . . . Nerves arising from branchial end of ganglion.</p> <p><i>br.s.</i> . . . . . Branchial sac.</p> <p><i>b.v.</i> . . . . . Blood-vessel.</p> <p><i>cæ.</i> . . . . . Cæcum of stomach.</p> <p><i>c.d.</i> . . . . . Connective duct in the branchial sac.</p> <p><i>cl.</i> . . . . . Cloacal aperture.</p> <p><i>d.l.</i> . . . . . Dorsal lamina.</p> <p><i>d.t.</i> . . . . . Dorsal tubercle.</p>
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