

PLATE XVIII.

Figs. 1-6. *Distaplia vallii*, n. sp.

Figs. 7-14. *Symplegma viride*, n. sp.

<i>at.</i> Atrial aperture.	<i>l.v.</i> Fine longitudinal vessels of branchial sac.	<i>sph.</i> Sphincter.
<i>br.</i> Branchial aperture.	<i>m.</i> Mantle.	<i>st.</i> Stomach.
<i>b.p.c.</i> Black pigment cell.	<i>æ.</i> Œsophagus.	<i>t.c.</i> Test cells.
<i>cæ.</i> Cæcum.	<i>p.c.</i> Mass of pigment cells.	<i>t.k.</i> Terminal bulb on vessel in test.
<i>d.l.</i> Dorsal lamina.	<i>p.p.</i> Peripharyngeal band.	<i>t.m.</i> Test matrix.
<i>d.t.</i> Dorsal tubercle.	<i>r.</i> Rectum.	<i>tr.</i> Transverse vessel of branchial sac.
<i>en.</i> Endostyle.	<i>r.p.c.</i> Red pigment cell	<i>v.</i> Vessel in test.
<i>i.</i> Intestine.	<i>sg.</i> Stigmata of branchial sac.	<i>v.ap.</i> Vascular appendage.
<i>i.l.</i> Internal longitudinal bar of branchial sac.		<i>z.</i> Prebranchial zone.

- Fig. 1. Colony of *Distaplia vallii*, from Station 212 ; natural size.
- Fig. 2. Colony of *Distaplia vallii*, from Mediterranean ; natural size.
- Fig. 3. Ascidiozoid of *Distaplia rosea*, from Naples ; magnified (S., 1 inch).
- Fig. 4. Section through test of *Distaplia vallii* ; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 5. Part of mantle of *Distaplia vallii*, from Mediterranean, showing pigmentation ; magnified (S., 1 inch).
- Fig. 6. Part of branchial sac of *Distaplia vallii* ; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 7. Colony of *Symplegma viride* ; natural size.
- Fig. 8. Part of test of *Symplegma viride*, showing vessels ; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 9. Part of outer layer of test of *Symplegma viride*, showing network of vessels ; magnified (S., 1 inch).
- Fig. 10. Part of branchial sac of *Symplegma viride* ; magnified (S., 1 inch).
- Fig. 11. Small part of another branchial sac of *Symplegma viride* ; magnified (S., 1 inch).
- Fig. 12. Part of branchial sac of young Ascidiozoid of *Symplegma viride*, showing internal longitudinal bars ; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 13. Dorsal part of anterior end of Ascidiozoid of *Symplegma viride*, showing dorsal lamina, &c.; tentacles not represented ; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 14. Alimentary canal of *Symplegma viride* ; magnified (S., 1 inch).