

PLATE XLIX.

Figs. 1-3. *Polycarpa bassi*, n. sp.

Figs. 4-6. *Polycarpa longisiphonica* (?), Herdman.

Figs. 7, 8. *Styela pusilla*, n. sp.

Figs. 9, 10. *Styela radicata* (?), Herdman.

Figs. 11-13. *Ciona aspera*, n. sp.

<i>br.f.</i> Longitudinal fold in branchial sac. <i>il.</i> Internal longitudinal bars of branchial sac.	<i>p.</i> Papillæ on the internal longitudinal bars.	<i>sg.</i> Stigmata. <i>tr, tr'.</i> Large and small transverse vessels.
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Fig. 1. *Polycarpa bassi*; natural size.

Fig. 2. Part of branchial sac of *Polycarpa bassi*, seen from the inside; magnified (S., 1 inch).

Fig. 3. Dissection of *Polycarpa bassi*, showing branchial sac and course of alimentary canal; natural size.

Fig. 4. *Polycarpa longisiphonica* (?); natural size.

Fig. 5. Part of the branchial sac of *Polycarpa longisiphonica* (?), seen from the inside; magnified (S., 1 inch).

Fig. 6. Part of the ectoderm of *Polycarpa longisiphonica* (?); highly magnified (S.,  $\frac{1}{4}$  inch).

Fig. 7. *Styela pusilla*; natural size.

Fig. 8. Part of the branchial sac of *Styela pusilla*, seen from the inside; magnified (S., 1 inch).

Fig. 9. *Styela radicata* (?), from right side; natural size.

Fig. 10. Part of the branchial sac of *Styela radicata* (?), seen from inside; magnified (S., 1 inch).

Fig. 11. *Ciona aspera*; natural size.

Fig. 12. *Ciona aspera*, with test removed; slightly enlarged.

Fig. 13. Part of the branchial sac of *Ciona aspera*, seen from the inside; magnified (S., 1 inch).