

PLATE XXXIX.

Figs. 1-7. *Leptoclinum japonicum*, n. sp.

Figs. 8-11. *Leptoclinum tenue*, n. sp.

Figs. 12-15. *Leptoclinum edwardsi*, n. sp.

Figs. 16-20. *Leptoclinum propinquum*, n. sp.

bl. Bladder cell.  
br. Branchial aperture.  
en. Endostyle.

sg. Stigmata of branchial sac.  
sg.c. Ciliated cells bounding stigmata.  
t.c. Test cells.

tr. Transverse vessel of branchial sac.  
v.d. Vas deferens.

- Fig. 1. Colony of *Leptoclinum japonicum*; natural size.
- Fig. 2. Colony of *Leptoclinum japonicum*, showing base; natural size.
- Fig. 3. Section through test of *Leptoclinum japonicum*, stained in aniline blue; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 4. Branchial sac of *Leptoclinum japonicum*; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 5. Branchial aperture of *Leptoclinum japonicum*, showing arrangement of spicules; magnified (S., 1 inch, enlarged).
- Fig. 6. Spicules from test of *Leptoclinum japonicum*; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 7. Part of testis and vas deferens of *Leptoclinum japonicum*; highly magnified (S.,  $\frac{1}{8}$  inch).
- Fig. 8. Colony of *Leptoclinum tenue*; natural size.
- Fig. 9. Part of colony of *Leptoclinum tenue*; slightly enlarged.
- Fig. 10. Part of surface of *Leptoclinum tenue*, showing arrangement of Ascidiozooids and spicules; magnified (S., 1 inch).
- Fig. 11. Spicules from test of *Leptoclinum tenue*; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 12. Colony of *Leptoclinum edwardsi*; natural size.
- Fig. 13. Another colony of *Leptoclinum edwardsi*; natural size.
- Fig. 14. Branchial sac of *Leptoclinum edwardsi*; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 15. Spicules from test of *Leptoclinum edwardsi*; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 16. Colony of *Leptoclinum propinquum*; natural size.
- Fig. 17. Part of surface of *Leptoclinum propinquum*; magnified (S., 1 inch).
- Fig. 18. Ascidiozooid of *Leptoclinum propinquum*, seen from left side; magnified (S., 1 inch).
- Fig. 19. Part of branchial sac of *Leptoclinum propinquum*; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 20. Spicules from test of *Leptoclinum propinquum*; highly magnified (S.,  $\frac{1}{4}$  inch).