

PLATE XXXI.

Figs. 1-3. *Ascidia placenta*, Herdman.

Figs. 4-8. *Ascidia meridionalis*, Herdman.

- Fig. 1. *Ascidia placenta*, seen from the right side ; natural size.
- Fig. 2. Part of the branchial sac of *Ascidia placenta*, seen from the inside ; magnified (Hartn., obj. 4).
- Fig. 3. Part of the dorsal lamina of the same species ; magnified (Hartn., obj. 4).
- Fig. 4. *Ascidia meridionalis*, seen from the right side ; natural size.
- Fig. 5. Part of the branchial sac of *Ascidia meridionalis*, seen from the outside, and showing the attachment of one of the "connectives" (*s.*) to a transverse vessel ; magnified (Hartn., obj. 4).
- Fig. 6. Part of the same branchial sac, seen from the inside ; magnified (Hartn., obj. 4).
- Fig. 7. Part of the dorsal lamina of *Ascidia meridionalis* ; magnified (Hartn., obj. 4).
- Fig. 8. The dorsal part of the anterior end of the same branchial sac, showing the dorsal tubercle (*d.t.*), the præbranchial zone with muscle bands showing through, and three of the tentacles, one long (*tn.*) and two short (*tn.'*) ; magnified (Hartn., obj. 4).