

PLATE IX.

Culeolus murrayi, Herdman.

- Fig. 1. A transverse section through the peduncle of *Culeolus murrayi*; magnified (Hartn., obj. 4).
- Fig. 2. Part of a longitudinal section through the same peduncle; magnified (Hartn., obj. 4).
- Fig. 3. One of the hollow papillæ from the outer surface of the test; magnified (Hartn., obj. 4).
- Fig. 4. Blood corpuscles from the interior of a papilla; much magnified (Hartn., obj. 7).
- Fig. 5. Part of an internal longitudinal bar from the branchial sac; much magnified (Hartn., obj. 5).
- Fig. 6. A small portion of the last figure more magnified (Hartn., obj. 7).
- Fig. 7. Calcareous spicules from the thin layer of mantle covering the viscera on the left side; magnified (Hartn., obj. 4).
- Fig. 8. Part of the same layer of mantle, more magnified, to show the epithelium (Hartn., obj. 7).
- Fig. 9. The wall of the heart; much magnified (Hartn., obj. 7).
- Fig. 10. A few of the fusiform muscle-cells from the last figure; more enlarged (Hartn., obj. 10).
- Fig. 11. Part of the pericardial membrane, showing a spicule (*sp.*), and the polygonal epithelium; much magnified (Hartn., obj. 7).
- Fig. 12. One of the smaller tentacles, showing spicules, blood corpuscles, &c.; magnified (Hartn., obj. 4).
- Fig. 13. Details of structure of a tentacle—
- The tip of a tentacle; much enlarged (Hartn., obj. 5).
 - and c. Parts of the epithelium of the surface of a tentacle; much enlarged (Hartn., obj. 7).
 - Surface view of the short columnar cells of the free (anterior) edge; much magnified (Hartn., obj. 7).
 - The same cells; profile view.
- Fig. 14. Part of the dorsal lamina, showing the languets; enlarged.
- Fig. 15. The neighbourhood of the nerve ganglion, showing also the dorsal tubercle (*d.t.*); slightly enlarged.
- Fig. 16. The structure of the ova; magnified.
- A mature ovum, showing the germinal vesicle (*g.v.*), and germinal spot (*g.s.*) (Hartn., obj. 7).
 - A young ovum, with comparatively little vitellus around the germinal vesicle (Hartn., obj. 7).
 - The outer edge of the mature ovum, more enlarged, showing the capsule of cubical epithelium (Hartn., obj. 7).
- Fig. 17. The structure of the testis—
- Clump of spermatic vesicles; magnified (Hartn., obj. 4).