

PLATE XX.

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Figs. 1-13. *Pilochrota gigas*, 124

Figure 1. Sponge; nat. size.

„ 2-6. Spicules—

Fig. 2. Isoactinate oxea; × 39.
 „ 3. Anisoactinate oxea; × 39.

Fig. 4. Orthotriæne; × 39.
 „ 5, 6. Chiaster; × 360.

- „ 7. Part of a transverse section through the sponge; × 16.
- „ 8. Section through part of the choanosome, showing the pale granular cells; × 360.
- „ 9. Part of section through one of the fibrous bands of attachment; × 292.
- „ 10. Median longitudinal section through one of the fibrous bands of attachment, the upper end of the figure includes a part of the body of the sponge; × 16.
- „ 11. A part of the foregoing section, more highly magnified, the contorted lines indicate wrinkled fusiform cells; × 540.
- „ 12. A part of section shown in fig. 10, including the surface of attachment; × 292.
- „ 13. Another portion of the same section, to show more darkly stained protoplasmic cells in association with the pale granular cells; × 292.

Figs. 14-21. *Cydonium glariosus*, 223

„ 14. Sponge; nat. size.

„ 15-21. Spicules—

Fig. 15. Orthotriæne; × 28.
 „ 16. Protriæne; × 28.
 „ 17. Anatriæne; × 28.
 „ 18. Sterraster; × 225.

Fig. 19. Choanosomal oxyaster; × 540.
 „ 20. Subcortical spheraster; × 540.
 „ 21. Cladal end of anatriæne; × 180.

Fig. 22. *Cydonium eosaster*, 225

„ 22. Transverse section through an excurrent canal and surrounding choanosome; × 125.