

PLATE XXI.

PAGE
223

Figs. 1-14. *Cydonium magellani*.

Figure 1. Sponge, attached to a small example of *Astrella vosmaeri*; nat. size.

„ 2-8. Spicules—

- | | |
|---|--|
| Fig. 2. Oxea; $\times 29$.
„ 3. Dichotriene; $\times 29$.
„ 4. Cladal end of a dichotriene with a more
eyathiform cladome; $\times 32$. | Fig. 5. Anatriene; $\times 29$.
„ 6. Sterraster; $\times 75$.
„ 7. Somal strongylate spheraster; $\times 430$.
„ 8. Choanosomal oxyaster; $\times 430$. |
|---|--|

- „ 9. Median longitudinal section through a chone; $\times 35$.
- „ 10. Tangential section through a part of the ectochroete; $\times 292$.
- „ 11. Oblique tangential section, passing through the inner face of the cortex and the adjacent choanosome; the sphincters of two chones are seen as darkly stained rings; $\times 22$.
- „ 12. Section through part of the choanosome, showing a flagellated chamber and surrounding sarcencytes; $\times 292$.
- „ 13. Transverse section across the myocytes of a chonal sphincter; $\times 540$.
- „ 14. Transverse section through the cortex, showing the hispidation produced by the oxeas and trienes; $\times 11$.

Figs. 15-29. *Cydonium eosaster*.

225

„ 15. Sponge; nat. size.

„ 16-26. Spicules—

- | | |
|---|--|
| Fig. 16. Oxea; $\times 32$.
„ 17. Cladal end of dichotriene; $\times 32$.
„ 18. Cladal end of anatriene; $\times 73$.
„ 19. Cladal end of anatriene; $\times 32$. Drawn
to same scale as fig. 17 for comparison.
„ 20. Cladal end of protriene; $\times 32$.
„ 21. Sterraster; $\times 73$. | Fig. 22. Spheraster; $\times 73$.
„ 23. Spheraster; $\times 292$.
„ 24. Somal spheraster; $\times 360$.
„ 25. Choanosomal oxyaster; $\times 360$.
„ 26. Choanosomal oxyaster, another ex-
ample; $\times 360$. |
|---|--|

- „ 27. Transverse section through the sponge, showing the continuation of the chonal canals inwards, till they communicate with a deep lying concentric canal; $\times 11$.
- „ 28. Section through the sponge, taken on one side of the medial plane; $\times 11$.
- „ 29. Section taken longitudinally through the middle of a chone; $\times 73$.

Figs. 30-42. *Cydonium hirsutus*.

218

„ 30. Part of the sponge; nat. size.

„ 31. Transverse section, showing the unusually thick cortex and cavernous choanosome; nat. size.

„ 32-42. Spicules—

- | | |
|--|--|
| Fig. 32. Oxea; $\times 28$.
„ 33. An oxea, not proper to the sponge; $\times 73$.
„ 34. Cladal end of dichotriene; $\times 28$.
„ 35. Sterraster, presenting the face bearing
the hilum; $\times 28$.
„ 36. The same, seen from the side at right
angles to that bearing the hilum;
$\times 28$.
„ 37. Surface of the sterraster; $\times 540$.
„ 38. Part of a transverse section, showing the
two actines of the sterraster with | intervening spicular substance, the
axial rods of the actines are also
shown; $\times 430$.
 |
|--|--|

- | |
|--|
| Fig. 39. Tangential section of the sterraster,
taken through the actines at a level
exterior to that at which they be-
come soldered together; $\times 540$.
„ 40. Section transverse to the actines, taken
deeper in; $\times 430$.
„ 41. Cortical spheraster; $\times 312$.
„ 42. Somal spheraster; $\times 430$. |
|--|