

Figs. 1-15. *Tetilla leptoderma*,

Figure 1. Sponge; nat. size.

„ 2-11. Spicules—

- Fig. 2. Oxea of the radial spicular fibres; × 20.
 „ 3. Protriæne; × 20.
 „ 4. Somal anatriæne; × 20.
 „ 5. Oxea, not forming spicular fibre; × 20.
 „ 6. Radical anatriæne; × 180.

- Fig. 7. Somal anatriæne; × 125.
 „ 8. Sigmaspires; × 290.
 „ 9. Cladome of protriæne; × 180.
 „ 10, 11. Trichodal protriænes, parts of; × 290.

- „ 12. Transverse section taken through a pore-sieve, and the adjacent tissues; × 125.
 „ 13. Section through part of the choanosome; × 125.
 „ 14. Transverse section of a part of the sponge; × 11.
 „ 15. A part of the preceding; × 34.

Figs. 16-27. *Tetilla sandalina*,

- „ 16. Sponge; nat. size.
 „ 17. Two flagellated chambers; × 300.
 „ 18. A vertical longitudinal section through the sponge; × 4.5.
 „ 19. Choanocytes; × 430.
 „ 20-25. Spicules—

- Fig. 20. Oxea; × 50.
 „ 21. Protriæne; × 50.
 „ 22. Sigmaspires; × 360.
 „ 23-25. The cladome of the pro-

- triæne and its modifications; fig. 23, heterocladal protriæne; fig. 24, heterocladal prodiæne; fig. 25, promonæne; × 180.

- „ 26. Section of a part of the choanosome; × 180.
 „ 27. Section of a part of the ectosome, showing flagellated chambers situated immediately beneath the outer skin; × 180.

Figs. 28-35. *Craniella carteri*,

„ 28. Sponge; nat. size.

„ 29-33. Spicules—

- Fig. 29. Somal oxea; × 41.
 „ 30. Anatriæne; × 40.
 „ 31. Protriæne; × 40.

- Fig. 32. Cladome of protriæne; × 180.
 „ 33. Cladome of anatriæne; × 180.

- „ 34. Transverse section through the cortex and adjacent choanosome; × 15.
 „ 35. Part of the preceding more highly magnified, showing one of the dermal glands; × 290.