

Figs. 1-9. *Scolopes moseleyi*,

- Figure 1. The sponge; nat. size.
- „ 2-7. Spicules—
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| <p>Fig. 2. Oxea of the spicular fibres; × 51.</p> <p>„ 3. Oxea of the cortex; × 51.</p> <p>„ 4. Microxea of the cortex and choanosome; × 51.</p> | <p>Figs. 5-7. Amphiasters; × 720. (In fig. 6, three whorls of actines are present, it thus calls to mind the scyptrella).</p> |
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- „ 8. Transverse section through the cortex, to show the arrangement of the spicules; × 51.
- „ 9. A part of the preceding, more highly magnified, to show the arrangement of the microxeas; × 200.

Figs. 10-12. *Isops apiarium*,

- „ 10. Diactinate reductions of the oxyaster; × 225.
- „ 11. Microstrongyle; × 225.
- „ 12. Oxyaster; × 225.

Figs. 13-19. *Miscellaneous*.

- „ 13. Part of a radial section through a very young example of *Dragmastra normani*, showing the dichotriænes beneath the outer epithelium, with very short rhabdomes; × 200.
- „ 14, 14a. Two triods from *Placina monolopha*, showing a sigmate form at the origin; fig. 14 × 540; fig. 14a × 1080.
- „ 15. Transverse section through the cortex of *Tethya lyncurium*, showing segmented ova, or developing internal buds, situated immediately beneath the outer epithelium; × 6½.
- „ 16. A part of the preceding more highly magnified, to show the structure of the segmented ova or internal buds; × 292.
- „ 17. Part of a radial section through a specimen of *Tethya lyncurium* from Norway. The oscule communicates with the excurrent canal by a sieve-pore; × 10.
- „ 18. The terminal portion of an oxea of *Dorypleres dendyi* (wrongly assigned to *Tethya lyncurium* in the legend to the Plate) after treatment with hydrofluoric acid; the outer brown dotted line is an organic sheath which resists solution, the inner brown rod is the axial rod of the spicule; × 292.
- „ 19. A dichotriæne of *Dragmastra normani*, with an adventitious cladus. Two of the normal dichocladi (*b* and *c*), are not completely represented in order to save space; *a* is the accessory cladus, its axial rod is separate and distinct from that of the rest of the spicule; × 200.