Figure 1. Sponge; nat. size.

- " 2. Vertical median section through one lobe, showing the general character of the excurrent canal system; nat. size.
- " 3-9. Spicules—

Fig. 3. Strongyle; x 125.

- ,, 4. Orthotriæne; × 125.
- " 5. Sterraster; × 125.
- ,, 6. Somal spherule; \times 430.
- Fig. 7. Exceptionally large somal spherule; × 430.
 - ,, 8, 9. Composite spherules, consisting of two or more united together; × 430.
- " 10. Part of the section seen at the left hand upper corner of the cloaca in fig. 2, more highly magnified; × 4.
- " 11. Tangential but slightly oblique section through the ectochrote, showing at the left hand side the pores, to the right the cavities into which they open; × 14.
- " 12. Tangential section through the sterrastral layer; × 14.
- " 13. Transverse section through the cortex and part of the choanosome; × 14.
- " 14. Transverse section through the ectochrote; × 292.
- " 15. Section through a part of the choanosome, showing the aphodal character of the chamber-system; × 180.
- " 16. Similar, showing the spherules in situ (within cells not distinguishable from sarcencytes); × 430.
- " 17. A flagellated chamber seen en face, showing the fenestrated membrane; × 430.
- " 18. A young sperm cell; x 292.
- ,, 19. A sperm-cluster, showing the residual nucleus in the midst; \times 292.
- " 20. A sperm-cluster; × 292.
- " 21. Isolated spermatozoa; × 430.
- " 22. Section showing the sarcenchyme, with spherules in some of the sarcencytes; × 430.