# PLATE XIII.

Figure 1. Sponge; nat. size.

„ 2–6. Spicules—

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| Fig. 2. Oxea; × 32. | Fig. 5. Anthaster; × 430. |
| „ 3. Dichotriæne; × 32. | „ 6. Chiaster; × 430. |
| „ 4. Anatriæne; × 32. |  |

„ 7. Section through the outer part of the ectosome; × 200.

„ 8. Radial section through a part of the choanosome, showing the relations of the excurrent and incurrent canals; × 70.

„ 9. Section through a part of the choanosome, showing flagellated chambers, with their aphodi; × 360.

„ 10. Cavity in the choanosome, left by the tearing away of a megasclere, showing the remains of the scleroblast; × 292.

„ 11. Section through a part of the choanosome, showing anastomosing aphodi.

„ 12. Another sponge of the same species, originally regarded as distinct; nat. size.

„ 13. Two sponges of the same species united in growth; nat. size.

„ 14–28. Spicules—

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| Fig. 14. Oxea; × 32. | Fig. 19. Cladal end of adult dichotriæne, with a cyathiform cladome; × 32. |
| „ 15. Dichotriæne; × 32. | „ 20. Cladal end of a young form of ana-triæne; × 180. |
| „ 16. Early stage in the growth of the dicho-triæne; ×180. | „ 21. Cladal end of adult anatriæne; × 32. |
| „ 17. A stage somewhat later; × 49. | „ 22–24. Anthasters; × 292. |
| „ 18. A stage later still; × 49. | „ 25–28. Chiasters; × 430. |

„ 29. Part of the rhabdome of a young anatriæne, showing the nuclear portion of the scleroblast; × 292.

„ 30. Sponge; nat. size.

„ 31–38. Spicules—

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| Fig. 31. Oxea; × 49. | Fig. 34. Cladal end of anatriæne, more highly magnified; × 180. |
| „ 32. Orthotriæne; × 49. | „ 35–37. Anthasters; × 430. |
| „ 33. Anatriæne; × 49. | „ 38. Chiaster; × 430. |

„ 39. Section through ectosome and adjacent choanosome to show the passage of the subdermal cavities into the incurrent canals; × 15.

„ 40. Section through the ectosome; × 49.