

PLATE III.

*Cinachyra barbata*, . . . . .

- Figure 1. Sponge; nat. size. The lower moiety is the basal mass of anchoring spicules.
- „ 2, 3. Young sponges, showing the development of the basal mass; nat. size.
- „ 4-8. Spicules—
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| Fig. 4. Anisoactinate oxea, esactine pointing upwards; × 16. | Fig. 6. Protriæne; × 16.  |
| „ 5. Anatriæne; × 16.  | „ 7. Cortical oxea; × 16. |
|  | „ 8. Sigmaspines; × 220.  |
- „ 9. Horizontal section through a young sponge.
- „ 10. Transverse section through the cortex and adjacent choanosome; × 20.
- „ 11. Transverse section through the cortex; × 73.
- „ 12. Transverse section through the outer one-fourth of the cortex; × 292.
- „ 13. Section through the choanosome, showing the eurypylous chambers; × 180.
- „ 14, 15. Tangential sections through the vestibule and cloaca, showing granule cells and fusiform cells in the collenchyma, some of the fusiform cells directed at right angles to the epithelium; fig. 14 × 360, fig. 15 × 540.