

PLATE V.

PAGE

Figs. 1-14. *Tetilla grandis*,

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- Figure 1. Sponge, with basal mass of spicules; nat. size.
 „ 2. Young sponge, without a basal mass; nat. size.
 „ 3. *Tetilla grandis*, var. *alba*, sponge; nat. size.
 „ 4. Section through a young specimen; $\times 9.5$.
 „ 5. Radial section through the cortex of the adult sponge, showing the cavernous vesicular tissue; $\times 292$.
 „ 6a. Section through a part of the cortex, showing the cladal end of an anatriæne, with the nuclei of associated cells forming a series along its sides; $\times 292$.
 „ 6-14. Spicules—

- Fig. 6. The cladal end of a normal anatriæne; $\times 180$.
 „ 7. The cladal end of a young form of anatriæne; $\times 292$.
 „ 8. The cladal end of an anatriæne, in which the rhabdome is continued distally past the cladal origin; $\times 292$.
 „ 9. The cladal end of an anadiæne presenting the same feature; $\times 292$.

- Fig. 10. The cladal end of a young prodiæne, showing the tylus; $\times 292$.
 „ 11. The cladal end of a young form of protriæne.
 „ 12. The cladal end of a protriæne, in which the cladi show a tendency to branch; $\times 292$.
 „ 13. The end of a rhabdus, with an accessory cladus; $\times 292$.
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Fig. 15. *Craniella simillima*,

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- „ 15. The cladal end of a young triæne, before the appearance of cladi, showing the tylus; $\times 576$.

Fig. 16. *Craniella cranium*,

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- „ 16. The cladal end of an anatriæne, in which a second cladome has developed; $\times 292$.

Figs. 17, 18, *Pæcillastra tenuilaminaris*,

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- „ 17. Sponge; nat. size.
 „ 18. Longitudinal transverse section, showing the thickness of the wall; nat. size.