

Fig. 7. A large finely-grown specimen, but with one principal branch broken off. *a* Side view of one of the cyclo-systems and its attached branches, to show the form of its margin and of its lid. *b* Two cyclo-systems of the same viewed from above, to show the form and extent of the lids.

Fig. 8. *Distichopora irregularis*. Off Samboangan, Philippine Islands. 10 fathoms.

Fig. 8. A specimen of twice the natural size to show the distribution of the lines of pores. *a* Tip of a branch of the same, much magnified to show the arrangement of the gastropores and dactylopores.

PLATE XIII.

All the figures except fig. 7 represent structures occurring in *Millepora nodosa*.

Fig. 1. Ovoid nematocyst, confined in position to the bases of the zooids and general superficial layer, not occurring in the tentacles. *a* The cell expanded. *b* The cell with the thread fully projected. The respective lengths of the various parts of the thread and cell are drawn exactly according to measurements.

Fig. 2. Three-barbed nematocyst, of the form peculiar to Hydrozoa, occurring in the tentacles of the zooids and also sparingly on the general surface of the coral. *a* The cell with its head protruded and thread partially projected. *b* The cell in the unexpanded condition. The figures are drawn exactly to measurements.

Fig. 3. View of a portion of the cœnosteum, magnified 2 diameters.

Fig. 4. View of the surface of the cœnosteum, magnified 80 diameters, showing one complete system of pores, composed of a central gastropore, and eight surrounding smaller dactylopores.

Diameter of the central gastropore = 0.25 mm.

Largest diameter of the whole group of pores = 1.5 mm.

Drawn by Dr J. J. Wild, Artist to the Challenger Expedition.

Fig. 5. Enlarged view of a vertical section of the cœnosteum.

C. Zooid-cavity or pore.

B, B. Branches of the canal-system.

Fig. 6. Section of the cœnosteum cut parallel to its outer surface, showing a portion of a system of zooids.

C. Gastropore in horizontal section.

C', C'. Dactylopores.

B'. Branch of a canal-system which communicates by means of a lateral offset with one of the dactylopore cavities.