

PLATE XLIII.

Armenista sigmoides, n. sp. (p. 84).

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| Fig. 1. Apical view of the corm (from above). The diagonal crest of the pneumatophore divides the exumbrella into an antero-dextral and a postero-sinistral half. The limb of the umbrella is octolobate, | nat. size |
| Fig. 2. Basal view of the corm (from below). The large sterile central siphon is surrounded by a corona of numerous small sexual siphons, and these by a double corona of filiform tentacles, | nat. size |
| Fig. 3. Half lateral, half superior view of the corm. Numerous filiform tentacles are prominent beyond the limb of the umbrella. The vertical diagonal crest of the pneumatophore exhibits the branched canals of the exumbrella, | nat. size |
| Fig. 4. Frontal section through the corm (or vertical transverse section). <i>ph</i> , Central chamber of the pneumatocyst (<i>pf</i>); <i>ce</i> , canals of the umbrella; <i>uu</i> , limbus umbrellæ; <i>us</i> , glands of the umbrella margin; <i>uc</i> , centradenia; <i>uh</i> , hepatic vessels; <i>un</i> , renal vessels; <i>t</i> , tentacles; <i>gs</i> , gonostyles (sexual siphons); <i>g</i> , gonophores; <i>sa</i> , sterile central siphon; <i>sf</i> , longitudinal folds of its inside; <i>so</i> , the octolobate mouth, | × 4 |
| Fig. 5. Pneumatocyst of a young corm, seen from above. Concentric ring-chambers with their pores of communication (pneumothyræ, <i>pg</i>); <i>pe</i> , their external openings (stigmata), | × 2 |
| Fig. 6. Central part of the pneumatocyst of a young corm, seen from below, highly magnified. The central chamber (<i>ph</i>) is confluent with eight radial chambers (<i>pg</i>), each of which bears below a branched trachea. The surrounding concentric ring-chambers (<i>pk</i>) are connected by pores of communication (pneumothyræ, <i>pg</i>), | × 20 |
| Fig. 7. Basal view of the isolated centradenia (<i>uc</i>) and the central siphon (<i>sa</i>), from below. <i>cm</i> , Gastro-canal system of the subumbrella; <i>so</i> , mouth, | × 2 |
| Fig. 8. A single gonostyle or sexual siphon. <i>gs</i> , Its stomach; <i>g</i> , gonophores; <i>kn</i> , cnidonodes; <i>so</i> , mouth, | × 20 |
| Fig. 9. A madusiform gonophore, detached from the stem (<i>Discomitra</i>), highly magnified. <i>w</i> , Subumbrella; <i>cr</i> , radial canals accompanied by yellow cells (xanthellæ); <i>t</i> , rudimentary tentacles; <i>s</i> , the incipient manubrium, | × 100 |
| Fig. 10. A branched trachea of the pneumatocyst. | |