

## PLATE VIII.

### *Colella pedunculata*, Quoy and Gaimard.

*bl.* Bladder cell.  
*emb.* A bud.

*o.s.* Outer surface of the test.  
*t.m.* Test matrix.

*v.ap.* Vascular appendage.

- Fig. 1. Part of the peduncle ; slightly enlarged.
- Fig. 2. Transverse sections near the lower end of the peduncle ; natural size.
- Fig. 3. Transverse sections from the middle of the peduncle ; natural size.
- Fig. 4. Transverse sections from another peduncle ; natural size.
- Fig. 5. Transverse sections from the upper end of the peduncle ; natural size.
- Fig. 6. A transverse section from the lower end of the peduncle (fig. 2), showing a young bud ; magnified (S., 1 inch).
- Fig. 7. A transverse section from further up the peduncle (fig. 3), showing several buds ; magnified (S., 1 inch).
- Fig. 8. Part of a transverse section through the upper end of a peduncle, showing a number of buds ; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 9. Part of a longitudinal section through the peduncle, showing the vascular appendages and buds ; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 10. Part of a transverse section through the upper end of the peduncle, showing the vascular appendages ; magnified (S., 1 inch).
- Fig. 11. Part of a transverse section through the base of the head, showing the vascular appendages and their canals ; magnified (S., 1 inch).
- Fig. 12. Part of a transverse section of the peduncle, showing a vascular appendage imbedded in the test ; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 13. The ectoderm covering a vascular appendage ; highly magnified (S.,  $\frac{1}{8}$  inch).