

PLATE IX.

Colella pedunculata, Quoy and Gaimard.

<i>bl.</i> Bladder cells.	<i>n.g.</i> Nerve ganglion.	<i>t.m.</i> Test matrix.
<i>br.</i> Branchial aperture.	<i>n.t.</i> Neural canal.	<i>tr.</i> Transverse vessel of branchial sac.
<i>br.s.</i> Branchial sac.	<i>o.</i> Ovary.	<i>v.</i> Vessel in test.
<i>ec.</i> Ectoderm.	<i>p.br.</i> Peribranchial cavity.	<i>v.ap.</i> Vascular appendage.
<i>i.</i> Intestine.	<i>sg.</i> Stigmata of branchial sac.	<i>v.ap.c.</i> The canal of the vascular appendage.
<i>emb.</i> A bud.	<i>st.</i> Stomach.	
<i>en.</i> Endostyle.	<i>t.c.</i> Test cells.	

- Fig. 1. Transverse section through part of peduncle, showing the structure of the test and the vascular appendages; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 2. Part of a transverse section, showing the cavities of vascular appendages containing proliferating blood-corpuscles; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 3. Part of a longitudinal section, showing a young bud projecting from a vascular appendage; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 4. Part of a transverse section, showing a young bud emerging from a vascular appendage; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 5. Part of a longitudinal section, showing a young bud lying in the test alongside a vascular appendage; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 6. Part of a longitudinal section, showing a young bud just becoming separated from the vascular appendage; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 7. Transverse section of a young bud, showing the division of the archenteron; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 8. Transverse section of an older bud, showing the branchial sac, peribranchial cavities, neural canal, &c.; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 9. Longitudinal section of an advanced bud; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 10. Longitudinal section of a younger bud; highly magnified (S., $\frac{1}{8}$ inch).
- Fig. 11. Part of an advanced bud, showing the interior of the branchial sac with stigmata; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 12. Longitudinal section of a very advanced bud or young Ascidiozoid, showing all the important organs; highly magnified (S., $\frac{1}{4}$ inch).