

PLATE VI.

The lettering is the same in all the figures.

<p><i>a</i> Acontia. <i>b</i> Mesenteric filaments. <i>c</i> Stomata in the septa. <i>c</i>¹ Perioral stomata. <i>c</i>² Marginal stomata. <i>cu</i> Cuticle. <i>d</i> Glandular streaks of the mesenteric filaments. <i>e</i> Ciliated streaks of the mesenteric filaments. <i>ek</i> Ectoderm. <i>en</i> Endoderm. <i>g</i> Reproductive organs. <i>h</i> Septa. <i>rh</i> Directive septa. <i>i</i> Oral disk.</p>	<p><i>k</i> Wall. <i>l</i> Pedal disk. <i>m</i> Muscles. <i>mm</i> Mesodermal muscles. <i>ml</i> Longitudinal muscles of the septa. <i>ml</i>¹ Retractor. <i>mp</i> Parietobasilar muscle. <i>mt</i> Transverse muscles. <i>mr</i> Radial muscles of the oral disk and longitudinal muscles of the tentacles <i>ms</i> Circular muscle of the wall. <i>me</i> Mesoderm. <i>n</i> Urticating cells. <i>o</i> Ovicells.</p>	<p><i>p</i> Filamental apparatus of the ovicells. <i>p</i>¹ Process of the ovicell. <i>p</i>² Apical set of epithelial cells. <i>r</i> Marginal spherules. <i>rh</i> Directive septa. <i>s</i> Oesophagus. <i>so</i> Openings of the oesophagus into the radial chambers. <i>sr</i> Oesophageal grooves. <i>sz</i> Lappets of the oesophagus. <i>t</i> Tentacles and the openings homologous with them. <i>t</i>¹ Principal tentacles. <i>t</i>² Accessory tentacles. <i>v</i> Openings of the pedal disk.</p>
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All statements given as to magnifying powers have reference to Zeiss's system. The magnifying powers amount to

	Oc. 1.	Oc. 2.		Oc. 1.	Oc. 2.
<i>a</i> ¹	6	10	D	195	240
A	55	70	F	410	550
C	95	125	J	470	580

A with unscrewed front lens (unscr. A) magnifies with Oc. 1 : 30 times; with Oc. 2 : 40 times.

Transverse sections through different forms of the circular muscle.

- Fig. 1. Circular muscle of *Cereus spinosus*. *a*¹, Oc. 1.
- Fig. 2. " " *Tealidium cingulatum*. C, Oc. 2.
- Fig. 3. " " *Polysiphonia tuberosa*. *a*¹, Oc. 2.
- Fig. 4. " " *Tealia bunodiformis*. C, Oc. 2.
- Fig. 5. " " *Phellia pectinata*. *a*¹, Oc. 2.
- Fig. 6. " " *Comactis flagellifera*. C, Oc. 2.