

PLATE IV.

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>sc</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.
a 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 : 80 times; with Oc. 2 : 40 times.

Sicyonis crassa.

Fig. 1. Transverse section through the upper end of the wall and the circular muscle situated there. Ten times the natural size, but drawn with unscr. A, Oc. 2. On the right hand side of the figure for *ek* read *en*.

Fig. 2. A sector of the pedal disk; natural size.

Fig. 3. Longitudinal section through the wall of a wart-like tentacle. Unscr. A, Oc. 2.

Fig. 4. The entire animal, seen from the oral side; natural size.

Fig. 5. Transverse section through the basal portion of a tentacle; about six times the natural size.

Fig. 6. Part of a transverse section through the radial muscles of the oral disk. D, Oc. 2.

Fig. 7. Part of a transverse section through the circular muscle; enlarged more than the preceding. D, Oc. 2.

Fig. 8. Transverse section through the oral disk, and insertion of a septum. Unscr. A, Oc. 2.

Fig. 9. Septum; natural size.