

PLATE XI.

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>l</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> Œsophagus. <i>so</i> Openings of the œsophagus into the radial chambers. <i>sr</i> Œsophageal grooves. <i>sz</i> Lappets of the œsophagus. <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
O	...	...	...	95	125	J	...	...	...	470	580

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

Polyopis striata (figs. 1-12).

(Figs. 1-8, Unscr. A, Oc. 1.)

Fig. 1. Transverse section through the oral disk near the stomidia, corresponding to line *a* in fig. 6.

Fig. 2. Transverse section through the oral disk, rather more towards the centre, corresponding to line *β*.

Fig. 3. Transverse section through the oral disk, still more towards the centre, corresponding to line *γ*.

Fig. 4. Transverse section through the upper part of the œsophagus and the openings lying in it.

Fig. 5. Transverse section through the oral disk, near the oral opening, corresponding to line *ε*.

Fig. 6. Surface view of a part of the oral disk. Unscr. A, Oc. 1, and reduced to one-eighth.

Fig. 7. Transverse section through the oral disk, nearly midway between figs. 3 and 5, corresponding to line *δ*.

Fig. 8. Transverse section through the lower part of two directive septa.

Fig. 9. Transverse section through a septum and the oral disk in the region of the stomidia. A, Oc. 2.

Fig. 10. Radial section through the oral disk, endodermal side. C, Oc. 2.

Fig. 11. The lower end of the body-wall *a* seen from the ectodermal side, *β* seen from the gastric side, about twice the natural size.

Fig. 12. Septum with adjacent portion of the wall, oral disk and œsophagus ; natural size.

Paractis excavata (figs. 13 and 14).

Fig. 13. Transverse sections through a tentacle, *a* at the point, *b* in the middle, *c* at the base. Unscr. A, Oc. 1.

Fig. 14. Part of a similar transverse section more highly magnified. D, Oc. 1.