

## PLATE VIII.

The lettering is the same in all the figures.

a Acontia.  
 b Mesenteric filaments.  
 c Stomata in the septa.  
 c<sup>1</sup> Perioral stomata.  
 c<sup>2</sup> Marginal stomata.  
 cu Cuticle.  
 d Glandular streaks of the mesenteric filaments.  
 e Ciliated streaks of the mesenteric filaments.  
 ek Ectoderm.  
 en Endoderm.  
 g Reproductive organs.  
 h Septa. rh Directive septa.  
 i Oral disk.

k Wall.  
 l Pedal disk.  
 m Muscles.  
 mm Mesodermal muscles.  
 ml Longitudinal muscles of the septa.  
 ml<sup>1</sup> Retractor.  
 mp Parietobasilar muscle.  
 mt Transverse muscles.  
 mr Radial muscles of the oral disk and longitudinal muscles of the tentacles  
 ms Circular muscle of the wall.  
 me Mesoderm.  
 n Urticating cells.  
 o Ovicells.

p Filamental apparatus of the ovicells.  
 p<sup>1</sup> Process of the oovicell.  
 p<sup>2</sup> Apical set of epithelial cells.  
 r Marginal spherules.  
 rh Directive septa.  
 s Cœsophagus.  
 so Openings of the cœsophagus into the radial chambers.  
 sr Cœsophageal grooves.  
 sz Lappets of the cœsophagus.  
 t Tentacles and the openings homologous with them.  
 t<sup>1</sup> Principal tentacles.  
 t<sup>2</sup> Accessory tentacles.  
 v Openings of the pedal disk.

All statements given as to magnifying powers have reference to Zeiss's system.

	Oc. 1.	Oc. 2.
a <sup>1</sup>	... ... ... 6	10
A	... ... ... 55	70
C	... ... ... 95	125

	Oc. 1.	Oc. 2.
D	... ... ... 195	240
F	... ... ... 410	550
J	... ... ... 470	580

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

Fig. 1. Transverse section through the wall of *Phellia pectinata*. D, Oc. 2.

Fig. 2. Transverse section through the directive septa of *Phellia pectinata* below the cœsophagus. A, Oc. 2.

Fig. 3. Part of a transverse section through the longitudinal muscular swelling (retractor) of a septum of *Tealia bunodiformis*. C, Oc. 2.

Fig. 4. Longitudinal section through the wall of *Tealia bunodiformis* with endodermal saccules. A, Oc. 2.

Fig. 5. Part of a transverse section through the cœsophagus, the wall, the directive septa, and the adjoining septa of *Tealia bunodiformis*. a<sup>1</sup>, Oc. 1.

Fig. 6. Transverse section through the wall of *Cereus spinosus*. Fig. a, a portion of the cuticule, drawn out like a tube. D, Oc. 2.

Figs. 7, 8. Portions of the circular muscle of *Tealidium cingulatum*, taken at different points. J, Oc. 2.

Fig. 9. Endodermal muscles of the oral disk of *Comactis flagellifera*. D, Oc. 2.

Fig. 10. Portion of a transverse section through the circular muscle of *Phellia pectinata*. D, Oc. 1.