

## PLATE XIV.

*a.c.* Axis epithelium.  
*b.* Fibrous layer of ectoderm.  
*c.* Cœnenchyma.  
*d.* Small gland cells of stomodæal ectoderm.  
*e.* Entodermal epithelium.  
*ec.* Ectoderm.  
*en.* Entoderm.  
*f.* Muscular layer.  
*g<sup>1</sup>.* Ectodermal gland cells.  
*g<sup>2</sup>.* Entodermal gland cells.  
*ga.* Ganglion.  
*g.c.* Germinal cells.  
*k.* Sperm polyplasts.  
*l.* Spermatozoa.  
*m<sup>1</sup>.* Primary mesentery.

*m<sup>2</sup>.* Secondary mesentery.  
*me.* Mesogloea.  
*m.f.* Mesenterial filament.  
*n.* Nematocysts.  
*n.l.* Nervous layer.  
*o.* Ova in figs. 1 and 7 ; spermatic capsules in fig. 4.  
*o<sup>1</sup>.* Young ova.  
*p.* Papillæ of ectoderm.  
*s.* Stomodæum.  
*sc.* Sclerenchyma.  
*sc<sup>1</sup>.* Lumen of sclerenchyma.  
*sep.* Interzoooidal septum.  
*sep<sup>1</sup>.* Septum uniting the mesogloea of the skeletal sheath with that of the cœnenchyma.  
*sp.* Spine.

	Diam.	
Fig. 1. <i>Antipathes dichotoma</i> , Pallas. Portion of a vertical longitudinal section, showing the position of the ovary, . . . . .	x	75
Fig. 2. <i>Aphanipathes sarothamnoides</i> , n. sp. Subhorizontal section of a polyp, showing the spines penetrating the zoooidal tissues, . . . . .	x	65
Fig. 3. <i>Aphanipathes sarothamnoides</i> , n. sp. Transverse section of the sheath of tissue which surrounds a spine, . . . . .	x	300
Fig. 4. <i>Pteropathes fragilis</i> , n. sp. Subhorizontal section of a polyp, showing the convoluted stomodæum, . . . . .	x	75
Fig. 5. <i>Antipathes dichotoma</i> , Pallas. Longitudinal section of the ectoderm of a tentacle (borax-carminé preparation), . . . . .	x	400
Fig. 6. <i>Antipathes dichotoma</i> , Pallas. Section of the base of a polyp (cœnenchyma), . . . . .	x	400
Fig. 7. <i>Cirripathes propinqua</i> , n. sp. Section of two polyps and two interzoooidal areas, showing the interzoooidal septa in transverse section, . . . . .	x	37