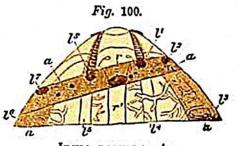
GENUS IDYIA.

send off along their whole course innumerable branches, ramifying in the thickness of the spherosome (Pl. II. Fig. 10). These ramified tubes,¹ everywhere visible through the transparent spherosome, give it a very peculiar appearance, as if made up of irregular meshes. Nothing of the kind is seen in any other type of Ctenophoræ. The cœliac tubes alone are simple, and do not give off or receive any branches. The origin and ramification of the minor tubes pervading the spherosome present some striking peculiarities. Those of the anterior and lateral interambulaera (Figs. 1 and 2), running nearer to the surface and consisting of thinner branches, arise from the ovarian side of the ambulaeral tubes, and, in fact, are direct prolongations of the ovisacs; while those occupying the anterior and the posterior pairs of interambulaera

have a deeper origin, from the inner side of the ambulacral tubes, and, bending over the spermatic sacs, ramify nearer the inner surface of the spherosome, and are, on the whole, wider than the others (Pl. II. Fig. 10). Fig. 99, which gives a transverse section across the middle of the body, shows the origin and distribution of these different branches, and makes it evident that none arise, either from the side of the spermatic sacs or from the cœliae tubes.

Fig. 10, Pl. II., representing a vertical section of body. the whole animal nearly to the abactinal pole where $\frac{r^{1}}{\kappa \pi}$ the spherosome is cut transversely, gives the best of t idea of the ramifications of the chymiferous tubes on



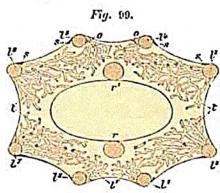
IDVIA ROSEOLA, Ag.

• r^1 cceliae tubes, r is cut near its origin. — $l^3 l^3$ lateral ambulaeral tubes cut near their origin. — $l^7 l^3$ anterior and posterior ambulaeral tubes, cut near their origin; all the cut ambulaeral tubes are on the same side of the body; on the opposite side the following organs are visible from their internal face: — $l^3 l^3$ anterior and posterior ambulaeral tubes. — $l^3 l^4$ lateral ambulaeral tubes. — a a arepresents the section of the spherosome.

the inner surface of the spherosome, and shows how much they differ on that side from those on the external surface (Pl. I. Fig. 1). Fig. 100 is a reproduction of the abactinal part of Fig. 10, Pl. II. Along its margins are seen one of the anterior and one of the posterior ambulaeral tubes for their whole length, the corresponding tubes $l^7 l^2$ (Fig. 100) of the opposite side being cut through. In the centre is the large cœliae tube of one side, and its corresponding tube of the opposite side r is cut through. The two lateral ambulaeral tubes of one side are also seen for their whole length, and the corresponding tubes of the opposite side,

l⁸ l¹, are cut through. Between the abactinal end of these branches the short but

¹ Among some Echinoderms there is something quite similar to these ramifications of the ambulacral tubes; for I do not doubt that the tube extending throughout the thickness of the shell of



IDYIA ROSEOLA, Ag.

Transverse section across the middle of the body.

r t^1 cucliae tubes. — $t^3 t^3$, $t^4 t^3$ lateral tubes.— $t^2 t^3$, $t^6 t^7$ anterior and posterior tubes. — $o \ o$ ovaries. — $s \ s, \ s \ s$ spermaries. — $t \ t$ internal ramifications of the anterior and posterior tubes. — t^1 internal ramifications of the lateral tubes.