communities of free-moving gelatinous animals, the Siphonophora (Fig. 3), which others consider as genuine Acalephs, while some do not hesitate to unite all

Acalephs and Polyps in one single division. On the other hand, we have lately seen a part of the Acalephs, the Ctenophoræ (Figs. 4, 5, 6, and 7), removed from that class, and referred to the type of Mollusks.

Such conflicting views could not be entertained by so many and such eminent naturalists, did not almost insuperable difficulties obstruct our attempts to trace the truth. know only one way to overcome these obstacles, and to attain greater precision on this subject. It is to test the affinities of all these animals by the standard of what is known of their Buds of swimming bells .- bb Somode of development, in the manner done before with full

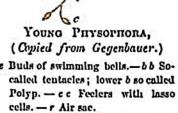
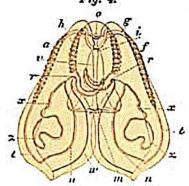


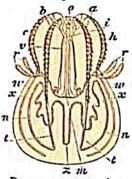
Fig. 8.

success for other classes; taking at the same time into account the homologies of their parts, as far as they can be ascertained. Embryology has, indeed, become



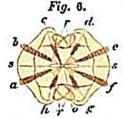
BOLINA ALATA, Ag. (Seen from the broad side.)

a and f Long rows of locomotive fringes .g and h Short rows of locomotive fringes. o Central black speck (eye-speck!). i to m Triangular digestive carlty. - i to o Funnel-like prolongation of the main carity. - v Chymiferous tube of the tentacular apparatus. - m Tentacular apparatus on the side of the mouth. - rr Earlike lobe, or auricles, in the prolongation of the short rows of locomotive fringes. - tt Prolongation of the vertical chymiferous tubes. - n n The same tubes turning upwards. - xx Bend of the same tubes. -= z Extremity of the same tubes meeting with those of the opposite side. - w Recurrent tube anastomozing with those



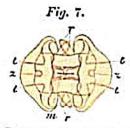
BOLINA ALATA, Ag. (Seen from the narrow side.)

ab Long rows of locomotive fringes. - ch Short rows of locomotive fringes. - o Central black speck (eye speck?). - i Upper end of the digestive cavity. - i to o Funnel-like prolongation of the main cavity of the body. - m to i Digestive carlty. - rr Auricles. - m Mouth. - t t Prolongation of the vertical chymiferous tubes. -n n The same turning upwards. - x x Bend of the same tubes. - = Anastomosis of the two longitudinal tubes tt. - was Recurrent tube, anastomozing with those of the auricles. - A comparison of this figure with Fig. 4 gives a distinct idea of the relative position of the digestive cavity m to i, and the chymiferous tubes of the tentacular apparatus e.



BOLINA ALATA, Ag. (Seen from above.)

o Central black speck (eye speck !). - a bef Long rows of locomotive fringes. - cdgh Short rows of locomotive fringes .- rr Auricles .- ss Circumseribed area of the upper end of the body.



BOLINA ALATA, Ag. (Seen from below.)

m Mouth. - rr Auricles. - ttt Prolongation of the vertical chymiferous tubes. -= = Annatomosis of these tubes.

the key-note to the knowledge of the closer affinities among animals. Granting, for instance, that anatomy alone could have settled the question of the true affinities of the Barnacles with Crustaceans, I hardly believe, that, but for our knowledge of their embryology, naturalists would ever have dared to consider them merely as a group of the natural division of Entomostraca, which they really are. for our knowledge of the mode of development of toads and frogs, their close