

tions of the individual forms and uses of each successive series of plates.*

From the subjoined analysis of the component portions of the body of the *E. Moniliformis*, we see that it may be resolved into four series of plates each composed of five pieces, and bearing a distant analogy to those parts in the organization of superior animals from which they have been denominated. A similar system of plates,

* "On the summit of the vertebral column are placed successive series of little bones, see Pl. 50, Fig. 4, which from their position and uses may be termed the Pelvis E, Scapula H, Costal F, forming (with the pectoral and capital plates) a kind of sub-globular body (see Pl. 48, Pl. 49, Fig. 1. Pl. 50, Figs. 1, 2), having the mouth in its centre, and containing the viscera and stomach of the animal, from which the nourishing fluids were admitted to an alimentary cavity within the column, and also carried to the arms and tentaculated fingers." From the scapula (H) proceeded the five arms, (Pl. 50, Fig. 1, K) which, as they advanced, subdivided into hands (M) and fingers (N) terminating in minute tentacula (Pl. 50, Figs. 2, 3), the number of which extended to many thousands. These hands and fingers are represented as closed, or nearly closed, in Pl. 48. and Pl. 49, Fig. 1. and Pl. 50, Figs. 1, 2. In Mr. Miller's restoration of the Pear Encrinite (Pl. 47, Fig. 1) they are represented as expanded in search of food. These tentaculated fingers, when thus expanded, would form a delicate net, admirably adapted to detain Acalephans, and other minute molluscous animals that might be floating in the sea, and which probably formed part of the food of the Crinoïdea. In the centre of these arms was placed the mouth (Pl. 47, Fig. 1), capable of elongation into a proboscis. Pl. 47, 6, x. 7, x. represent the bodies of Crinoïdea from which the arms have been removed.

In Pl. 50, Fig. 1 represents the superior portion of the animal, with its twenty fingers closed like the petals of a closed lily. Fig. 2 represents the same partially uncovered, with the tentacula