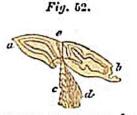
It has already been stated, that the communities of Diphyidæ¹ begin with a Medusa (Fig. 51), judging from the investigations of Gegenbauer detailed above

Fig. 51.

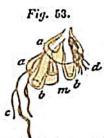


Embryo of Dirityes Sikboldii, Köll. (Copied from Gegenbauer.)

e Remnant of the embryonal body. — n Swimming-bell developed from the embryonal body.



GALEOLARIA FILIFORMIS, Leuck. Diphyes quadrivalvis, Gegenb. (*Opied from Gegenbauer.*) a b Anterior and posterior swimmingbells. — c String of twin individuals. — d Feelers with lasso cells. — c Caecal termination or base of the connecting tube or axis of the community.



Two twin individuals of the pendent string of the community of DIFILVES SIENOLDH, Köll. a a The so-called scales.—bb The so-called Polyps. — m The so-called sexual capsule. — c External feeler, with lasso cells. — d Feeler contracted.

(pp. 53 and 54), and that from the first twin community, formed of two sterile Medusze (Fig. 52 ab), arise a string of similar twin communities (Fig. 52 c), consisting of a medusoid Hydra (Fig. 53 aa) and a fertile sexual Medusa (Fig. 53 m), the so-called Gonocalyx, dropping off together and living for a time as independent beings, several of which have been described as distinct genera.

If the views I have here presented of the nature of the Siphonophoræ are correct, there is no need of a special nomenclature to describe the different individuals of their communities; and we shall hereafter deal with them as with different kinds of Hydræ and of Medusæ, describing successively their polymorphous individuals as we would describe different genera and species of Hydroids and of free Acalephs belonging to other families of the class, and introduce only one new element in these descriptions, on account of the different modes of association of the many individuals united together in one and the same community, as it becomes necessary here to allude to their various combinations.

¹ Since the preceding pages were printed I have received two interesting papers upon Diphyidæ and Physophoridæ from their distinguished author, Dr. C. Gegenbauer: Ueber Abyla trigona und deren Eudoxicrnbrut, Jena, 4to. fig.; and Neue Beiträge zur nähern Kenntniss der Siphonophoren; separately printed from the Act. Nov. Acad. Natur. Curios. for the current year.