12th Family. Geryonides Esch. (restricted).<br>Geryonia Pér. and LeS. (non Less.), restricted. - Liriope Less. (non Gegenl.).<br>G. proboscidulis Esch.-Medusa proboscidalis Forsk.; M.-Eilu., in Cuv. Règn. An., Pl. 52, fig. 3.-Geryonia hexaphylla $I^{r}$ 'ér. aund LeS. (non Br.). - Medilerruncun (Forskīil).<br>G. hexaphylla Br., PI. IS (non Pér. and LeS'.). - Bonin Islands (Mertens).

13th Family: Leockartide Aguss. ${ }^{1}$ - (iergonidie Exch. (p. p.). Leuckartia Ay. - Geryonia Lewek, (non Aucl.).
L. proboscidalis Aly. - Geryonia proboscilalis Lewck. (non Auct.), Arch. Nat., 1850, Pl. 1, fig. 1.-Nïce (Leuekart).
${ }^{1}$ Afer having satisfied myself that the hitentaculated Meduse thus firr referred to the genus Saphenin belong to two different families, Saphenia Forbes to the Nucleifera, and Suphenia E'srle to the Geryonopsida, it occurred to me that, among the proboseidul Gerjonidar, there might also be representatives of different families. I was led to this supposition by the great tiversity of typus included in that family by earlier maturalists, mul even by Forbes. The result of my comparisons are here submitted to the criticisms of those who may lave an opportunity of testing the value of my suggestions. That the Geryonopsida differ from the Leuckartide I have no doubt, having hail an opportunity of examining several representatives of the two families. But there does not oecur, along the American coast, a representative of the Geryoniu proboscidulis of Europe, so that my inference upon this type are solely based upon a careful comparison of the descriptions and figures of Forskial. Mertens, Milne-Edwards, Gegenbaur, nad Lemekart. On comparing the tigures of this speceies published by Forskil and Milne-Edwards, it may at onee be noticed, that, while they agree in every prominemt foature, they differ strangely from that of Leuckart. Gegenbaur's minute deseription of the sume type differs equally from the description given by Leuckurt. Gegenbaur says distinetly, "the proboscis is characterized by the absence of distinet caunls," "its interior forms a large cavity," und "from
the circular tube arise centripetal, eareal appentnges." In Lenckart's Geryonia proboseilatis there nre no "cemtriputal appemblages;" moreover, it appears to agree in every reejeet with the other speeies described hy him moler the name of Geryonia exigua, of" which he salys, that the "stomach is small, ahomt a line lony." He says distinetly, that nhove the stomath there is "no fumel-shaped eavity;" and that "the ratiating camals arise immediately from it." We have thus Geryonilar, with that, huar-shaped dilatations of the radiating tubes, ats genital organs, which agree with the Geryonopsides in the structure of their chymiferons system and its ramitieation, and others which do not. The latter are Gergenhaur's type, long known from Forskial's deseription and ligure, and for which the name of Geryonidae must be retained; for the other, tirst aceurately described by Leuckart, I propuse the name of Leuckartida, and to the later fimily the genus Liriope Gegent. (nut Less.) alio belongs. It will be notied that the form of the genitul organs of the Leuckartida is the reverse of that of the Geryonide; the heart-shuped genital organs of the gemine Geryonita pointing toward the circular tube, and those of the Leuckartida towarl the stomnch, while in Gerjonopsidat they extend evenly aleng the chymiferous tubes, as in the Oceanidas. If 1 um not mistaken, the true Cieryonidae should be referred to the Diseophore luplustomear, While the Leuckurtide are genuine Hydroids.

