that therefore its young may be widely different from the adult, and is not likely to resemble the young of other genera, considering the typical peculiarities of Cestum; when it is further remembered that the tentacular apparatus of Sicyosoma trends in the direction of the mouth, as in Cestum,—this supposition will appear more probable than that of Gegenbaur, who regards it as an adult form of a very low organization.

SECTION IV.

THE NATURAL FAMILIES OF THE CTENOPHORIE LOBATIE.

Eschscholtz was the first to perceive the affinities which unite these Acalephs into one natural group, to which he gave the name of Beroidæ Lobatæ in the account of his investigations published in the Isis for 1825. Four years later, he changed that name to Mnemiidæ, in his "System der Acalephen;" but, as we have already seen, the Ctenophora Lobata constitute a natural sub-order, and not simply a family. Lesson, on the other hand, regarding the whole type of Ctenophoræ as one family, subdivided it into eight tribes, three of which, the Leucothoeæ, the Seuroeæ, and the Calymmeæ, belong to the Ctenophoræ Lobatæ, while his Callianire embrace Cydippide as well as genuine Lobate. Gegenbaur unites all these Acalephs into one family, called by him Calymnidae. It is not difficult, however, to trace different patterns among them. In the first place, I would call attention to the very peculiar form of the genus described by Gegenbaur under the name of Euramphea. It differs from all other Ctenophore by the remarkable prominence of the actinal diameter, which gives this type a very clongated appearance, strikingly contrasting with the prominence of the coliac diameter in others. Again, the compression of the sides, combined with the sudden dilatation of the anterior and posterior spheromeres into broad lobes projecting from the actinal part of the narrow sides of the body, and the equally prominent projection of the abactinal part of the broad sides of the body, extending sideways much beyond the abactinal pole, give this Acaleph a very unusual appearance, and show it to be the type of a distinct family, for which I propose the name of Eurampheide. Besides the genus Euramphæa, I am inclined to refer to it another Acaleph, thus far very imperfectly known, because it was described and figured from a mutilated specimen by Chamisso, and has not been observed since; but the parts preserved agree so fully with Gegenbaur's Euramphæa, that the close affinity of the two can hardly be I allude to Chamisso's Callianira heteroptera (Nov. Act. Acad. Nat. doubted.