Globigerina, as well as in those of Pullenia, and also in the genus Hastigerina, the aperture is a broad curved fissure, symmetrically placed at the inner margin of the segments. In some turbinoid species the aperture is single, and only differs from that of the Rotalina in its relatively large size; in others it is divided, and takes the form of a number of smaller orifices, part of which are situated on the superior face of the test; whilst in Orbulina, there is no general orifice in the ordinary sense of the term, its place being supplied by a set of abnormally large perforations.

As already stated, the constituent genera of the GLOBIGERINIDÆ do not arrange themselves in a continuous series like those of the MILIOLIDÆ or the LAGENIDÆ, but form several collateral groups, of which the corresponding modifications exhibit to a limited degree the sort of isomorphism that is so conspicuous a feature of the ROTALIDÆ. Thus *Globigerina bulloides* finds an isomorph in *Candeina nitida*; *Globigerina conglobata*, *Sphæroidina bulloides*, and *Pullenia obliquiloculata* are in like manner parallel modifications of their respective types; as are also *Globigerina æquilateralis*, *Hastigerina pelagica*, and *Pullenia quinqueloba*. In connection with this subject it is of interest to note that similar isomorphisms may be traced between the *Globigerinæ* and the *Rotalinæ*, though the number of corresponding forms is relatively small.

The most noteworthy characteristic of the GLOBIGERINIDÆ as a Family is the pelagic habit of most of the species. Certain genera, like *Hastigerina*, are exclusively pelagic; and of others a great majority of the known varieties have been found in the free-swimming condition. Even *Pullenia* and *Sphæroidina*, of which the reputed typical species have only hitherto been met with in bottom-dredgings, have well-marked pelagic representatives.

Globigerina, d'Orbigny.

Globigerina, d'Orbigny [1826], Roemer, Reuss, Bailey, Ehrenberg, Costa, Parker and Jones, Egger, Williamson, Pourtales, Karrer, Carpenter, Wallich, Brady, Owen, Schwager, &c.

Rosalina, pars, d'Orbigny [1839], Ehrenberg, Reuss, Rupert Jones.

Rotalia, pars, Ehrenberg [1854], Kübler and Zwingli.

Phanerostomum, pars; Ptygostomum, pars; Planulina, pars, Ehrenberg [1854].

Rhynchospira, Ehrenberg (?), Reuss, MS., Karrer [1877].

Pylodexia, Ehrenberg [1859].

Rotalina, pars, Seguenza [1862].

Aristerospira, pars, Ehrenberg [1873].

The distinctive characters of the genus *Globigerina* are stated by d'Orbigny in the "Tableau Méthodique" in the following terms :—" Test libre, trochoïde, irrégulier; spire confuse, formée par des loges sphériques plus ou moins distinctes; ouverture en forme d'échancrure plus ou moins profonde, située vers l'axe de la spire à l'angle ombilical."¹ The genus is described at considerable length by Dr. Carpenter and his colleagues in the

¹ Ann. Sci. Nat., 1826, vol. vii. p. 277.