

It will be seen at a glance that the Families of the German arrangement are much smaller and more numerous than those adopted by the English naturalists; this, however, is subsequently counterbalanced by the more comprehensive "generic types" of the latter. The essential difference, not only between the two systems of classification, but in the entire methods of study and nomenclature, is to be found in the different values of their respective Genera and Species.

Before entering upon any extended criticism, it may be well to introduce briefly certain other plans for the systematic arrangement of the Foraminifera, which have appeared more recently, and which differ in many noteworthy respects from either of the foregoing. Precedence must be given to the synopses published almost simultaneously by Professor T. Rupert Jones¹ and Professor Carl Zittel² respectively, the general features of which will, as in the former case, be best understood from collateral tabular summaries.

RUPERT JONES, 1876.

Sub-order I. Imperforata vel Porcellana.

- Family I. NUBECULARIDA.
 II. MILIOLIDA.
 III. PENEROPLIDA.
 IV. ORBICULINIDA.
 V. DACTYLOPORIDA.

Sub-order II. Arenacea.

- Family I. PARKERIADA.
 II. LITUOLIDA.

Sub-order III. Perforata vel Hyalina.

- Family I. LAGENIDA.
 II. POLYMORPHINIDA.
 III. BULLMINIDA.
 IV. TEXTULARIDA.
 V. GLOBIGERINIDA.
 (1) *Globigerinina*.
 (2) *Rotalina*.
 (3) *Polystomellina*.
 (4) *Nummulinina*.

ZITTEL, 1876.

Sub-order I. Imperforata.

- Family I. GROMIDÆ.
 II. CORNUSPIRIDÆ.
 III. MILIOLIDÆ.
 IV. DACTYLOPORIDÆ.

Sub-order II. Perforata.

- Family I. LAGENIDÆ.
 II. GLOBIGERINIDÆ.
 (1) *Globigerinæ*.
 (2) *Textularinæ*.
 (3) *Rotalinæ*.
 III. NUMMULINIDÆ.

Two other outlines of classification, more carefully elaborated than any which preceded them, remain to be noticed, namely those of Dr. Schwager³ and Pro-

¹ *Monthly Micr. Journ.* No. 86, Feb. 1876, pp. 89-92.

² *Handbuch der Paläontologie*, vol. i. pt. 1, 1876, pp. 61-106.

³ *Saggio di una Classificazione dei Foraminiferi, avuto riguardo alle loro famiglie naturali, per Corrado Schwager. Bollet. r. Com. Geologica*, 1876-1877.