

# A POTPOURRI OF NEW FORAMINIFERAL GENERA AND SUBGENERA PROPOSED SINCE 1987 (LISTING AND OBSERVATIONS)

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## ABSTRACT

A list of 152 foraminiferal generic and subgeneric names proposed since the Loeblich and Tappan (1987) compilation along with pertinent bibliographic information is presented. In addition, 18 generic names not included in the above compilation are listed.

## INTRODUCTION

The rate at which foraminiferal genera are proposed has been well documented by Loeblich and Tappan (1964, 1987). For example, these workers (Treatise on Invertebrate Paleontology, Part C, Protista 2, 1964), presented information on over 2,400 proposed genera and later (Foraminiferal Genera and their Classification, 1987) documented 3,620 genera. This rate has continued unabated since the Loeblich and Tappan (1987) compilation. The purpose of this article is to provide information on the known foraminiferal genera and subgenera proposed since 1987; make objective observations on the validity of these taxa; and where pertinent, elaborate upon information included in the Loeblich and Tappan (1987) volumes. In addition, erroneous citations of previously established taxa are included, as are omissions from, or corrections to, the Loeblich and Tappan (1987) compilation.

The generic and subgeneric names included herein represent those that have

come to hand, and no claim is made as to this list being exhaustive. For example, I am personally aware of a further thirteen proposed new genera, either in manuscript or galley format. These genera will be published by Loeblich and Tappan, Revets, Haman *et al.*, and Zhang. It is highly probable that additional new genera are being discovered or described on a daily basis. Thus, it is virtually impossible to keep abreast of the new taxa. However, this listing does present data from multiple sources which may not be readily available to other students of foraminifera, and, may be of assistance in avoiding potential future taxonomic confusion. Each generic entry is followed by the bibliographic citation to facilitate literature usage.

## ACKNOWLEDGMENTS

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## LITERATURE CITED

- LOEBLICH, A.R., JR., and HELEN TAPPAN, 1964 Treatise on Invertebrate Paleontology, Part C, Protista 2: Geol. Soc. America and Univ. Kansas Press, vol. 1, 510 p., 399 figs.  
LOEBLICH, A.R., JR., and HELEN TAPPAN, 1987, Foraminiferal genera and their classification. Von Nostrand Reinhold, New York, 2 vols. 970 p., 847 pls.

## ALPHABETICAL LISTING

- ABYSSOTHERMA** Brönnimann, Van Dover and Whittaker, 1989. Type species *A. pacifica* Brönnimann, Van Dover and Whittaker, 1989.  
[BRÖNNIMANN, P., C. L. VAN DOVER and J. E. WHITTAKER, 1989, *Abyssotherma pacifica*, n. gen., n.sp., a Recent remaneicid (Foraminiferida, Remaneicea) from the East Pacific Rise: Micropaleontology, vol. 35, no. 2, p. 142-149].
- AGATHAMINELLA** Benjamini, 1988. Type species *A. planispira* Benjamini, 1988.  
[BENJAMINI, C., 1988, Triassic foraminifera from Makhtesh Ramon, central Negev, southern Israel: Revue de Paléobiologie, Vol. Spéc. No. 2, Partie 1, p. 129-144].
- ALTERAMMINA** Brönnimann and Whittaker, 1988. Type species *Trochammina alternans* Earland, 1934.  
[BRÖNNIMANN, P., and J. E. WHITTAKER, 1988, The Trochamminacea of the Discovery Reports: British Museum (Natural History), London, 152 p.].
- ALVEOSEPTA (REDMONDELLINA)** Banner and Whittaker, 1991. Type species *Pseudocyclammina powersi* Redmond, 1964.

- [BANNER, F. T., and J. E. WHITTAKER, 1991, Redmond's "new lituolid foraminifera" from the Mesozoic of Saudi Arabia: *Micropaleontology*, vol. 37, no. 1, p. 41-59].
- AMMOANITA** Seiglie and Baker, 1987. Type species *A. rosea* Seiglie and Baker, 1987.  
[SEIGLIE, G. A., and BAKER, M. B., 1987, *Ammoanita rosea*, new genus and new species of deep water Trochamminidae, Foraminiferida: Biological Society of Washington, Proceedings, vol. 100, no. 3, p. 490-493].
- AMMOSIGMOILINELLA** Zheng, 1988. Type species *A. eximia* Zheng, 1988.  
[ZHENG, S., 1988, The agglutinated and porcelaneous foraminifera of the East China Sea: Science Publishing Company, Beijing, 337 p.].
- ANATOLIELLA** Sirel, 1988. Type species *A. ozalpiensis* Sirel, 1988.  
[SIREL, E., 1988, *Anatoliella*, a new foraminiferal genus and a new species of *Dicthyokathina* from the Paleocene of the Van area (east Turkey): *Revue de Paléobiologie*, vol. 7, no. 2, p. 477-493].
- ANDERSSONITES** Syomina, Solovieva and Bensch, 1987. Type species *Fusulina anderssoni* Schellwien, 1908.  
[SYOMINA, S. A., M. N. SOLOVIEVA and F. R. BENSCH, 1987, On determining the genus *Anderssonites* Syomina, Solovieva et Bensch, gen.nov.: Academy of Sciences of the USSR, Questions of Micropaleontology, 29. Moscow "Nauka," 1987, p. 78-80].
- ANGELINA** Altiner, 1988. Type species *A. alpinotaurica* Altiner, 1988. Altiner, 1986, proposed the establishment of this genus but did not indicate a type species, thus making the 1986 generic name a nomen nudum and invalid.  
[ALTINER, D., 1988, Pseudovidalinidae n. fam. and *Angelina* n. gen. from the upper Permian of south and southeast Turkey: *Revue de Paléobiologie*, Vol. Spéc. No. 2, Partie 1, p. 25-36].
- ARAGONELLA** Calvez, 1989. Type species *A. marginata* Calvez, 1989. Proposed generic name preoccupied. Calvez intends to rename this genus (Litt. HC/DH 19/09/90).  
[CALVEZ, H., 1989, *Aragonella marginata* n. gen., n. sp., nouvel Orbitolinidé (Foraminifère) de l'Albien des Pyrénées franco-espagnoles: *Comptes Rendus de l'Académie des Sciences, Paris, Géologie/Micropaléontologie*, vol. 308, Série II, p. 515-520].
- ARBOR** Schröder, Medioli and Scott, 1989. Type species *A. cuspidata* Schröder, Medioli and Scott, 1989.  
[SCHRÖDER, C. J., F. S. MEDIOLI and D. B. SCOTT, 1989, Fragile abyssal foraminifera (including new Komokiacea) from the Nares Abyssal Plain: *Micropaleontology*, vol. 35, no. 1, p. 10-48].
- ASCOLIELLA** Banner and Desai, 1988. Type species *A. scotiensis* Banner and Desai, 1988.  
[BANNER, F. T., and D. DESAI, 1988, A review and revision of the Jurassic-Early Cretaceous Globigerinina, with especial reference to the Aptian assemblages of Speeton (North Yorkshire, England): *Journal of Micropalaeontology*, vol. 7, part 2, p.143-185].
- ATAXELLA** Peybernès, 1988. Type species *Paracoskinolina occitanica* Peybernès, 1974.  
[PEYBERNÈS, B., 1988, Description d'*Ataxella* n. gen. (génératype: *Paracoskinolina occitanica* Peybernès, 1974), nouveau genre d'Orbitolinidé du Bathonien supérieur ouest-téthysien: *Comptes Rendus de l'Académie des Sciences, Paris, Géologie/Micropaléontologie*, vol. 307, Série II, p. 1097-1100].
- AXICOLUMELLA** Hercogová, 1988. Type species *Lituola cylindrica* Perner, 1892.  
[HERCOGOVÁ, J., 1988, *Acruliammina*, *Bdelloidina* and *Axicolumella* n. gen. (Foraminifera) from the Cretaceous transgressive sediments of the Bohemian Massif: *Sbornik Geologických Ved, Paleontologie*, vol. 29, p. 145-189].
- BALTICAMMINA** Brönnimann, Lutze and Whittaker, 1989. Type species *B. pseudomacrescens* Brönnimann, Lutze and Whittaker, 1989.  
[BRÖNNIMANN, P., G. F. LUTZE and J. E. WHITTAKER, 1989, *Balticamina pseudomacrescens*, a new brackish water Trochamminid from the western Baltic Sea,

with remarks on the wall structure: Meyniana, vol. 41, p. 167-177].

- BARNARDINA** Kalantari, 1970. Type species *B. semirugosa* Kalantari, 1970. Senior homonym of *BARNARDINA* Taylor, Patterson and Choi, 1985. See *LAEVICALVATELLA* Patterson, 1989, the replacement name for *BARNARDINA* Taylor, Patterson and Choi, 1985. *BARNARDINA* was originally proposed by Haynes, 1981, with *B. thanetana* Haynes, 1981, as type species. The type species was not described by Haynes, 1981, thus making the generic name invalid. Taylor, Patterson and Choi, 1985, validated the generic name by providing a type species description. They (*ibid.*, 1985) also achieved authorship of the genus and type species by their actions. Loeblich and Tappan, 1987, accepted the Taylor, Patterson and Choi, 1985, generic name, apparently unaware that the name was a junior homonym, having been previously used by Kalantari, 1970. Patterson, 1989, rectified the status of *Barnardina* Taylor, Patterson and Choi, 1985, by renaming the genus *LAEVICALVATELLA* Patterson, 1989. [KALANTARI, A., 1970, A new genus and two new species with some Albian arenaceous foraminifera from northeastern part of Iran: The Bulletin of the Iranian Petroleum Institute, vol. 38, p. 127-135].
- BIDENTINA** Mikhalevich, 1988. Type species *Spiroloculina communis* Cushman and Todd, 1944. [MIKHALEVICH, V. I., 1988, The classification of the subclass Miliolata (Foraminifera): in MIKHALEVICH, V. I., (Ed.), Classification, ecology and stratigraphy of the Miliolata (Foraminifera); Proceedings of the Zoological Institute, USSR Academy of Sciences, Leningrad, vol. 184, p. 77-110].
- BILOCULINITES** Rahaghi, 1983. Type species *B. paleocenica* Rahaghi, 1983. [RAHAGHI, A., 1983, Stratigraphy and faunal assemblage of Paleocene-Lower Eocene in Iran: National Iranian Oil Company, Geological Laboratory Publication no. 10, p. 1-73].
- BLEFUSCUIANA** Banner and Desai, 1988. Type species *B. kuznetsovae* Banner and Desai, 1988. [BANNER, F. T., and D. DESAI, 1988, A review and revision of the Jurassic-Early Cretaceous Globigerinina, with especial reference to the Aptian assemblages of Speeton (North Yorkshire, England): Journal of Micropalaeontology, vol. 7, part 2, p. 143-185].
- BLYSMASPHAERA** Brönnimann, 1988. Type species *B. brasiliensis* Brönnimann, 1988. [BRÖNNIMANN, P., 1988, Two new Recent allogromiine and textulariine genera (Protozoa: Foraminiferida) from the Brazilian shelf: Revue de Paléobiologie, vol. 7, no. 1, p. 33-42].
- BROWNE DISCUS** Brenckle, Ramsbottom and Marchant in Brenckle, Lane and Manger, 1987. Type species *Ammarchaediscus* (subgenus A) *leckwijcki* Conil in Austin, Conil, Groessens and Pirlet, 1974. [BRECKLE, P. L., W. H. C. RAMSBOTTOM and T. R. MARCHANT, 1987, Taxonomy and classification of Carboniferous Archaediscacean Foraminifers; in BRECKLE, P. L., H. R. LANE and W. L. MANGER, 1987, Selected Studies in Carboniferous Paleontology and Biostratigraphy: Courier Forschungsinstitut Senckenberg, 98, Frankfurt a.M., p. 11-24].
- BULIMINELLA** Revets, 1990. Erroneous citation for *BULIMINELLA* Cushman, 1911. [REVETS, S. A., 1990, The genus *Floresina*, gen.nov.: Journal of Foraminiferal Research, vol. 20, no. 2, p. 157-161].
- CACTOS** Schröder, Medioli and Scott, 1989. Type species *C. mollis* Schröder, Medioli and Scott, 1989. [SCHRÖDER, C. J., F. S. MEDIOLI and D. B. SCOTT, 1989, Fragile abyssal foraminifera (including new Komokiacea) from the Nares Abyssal Plain: Micropaleontology, vol. 35, no. 1, p. 10-48].
- CALLORBIS** Wernli and Metzger, 1990. Type species *C. minor* Wernli and Metzger, 1990. [WERNLI, R., and METZGER, J., 1990, *Callorbis minor*, n.g., n. sp., un nouveau

foraminifère des calcaires échinodermiques du Bajocien du Jura (France): *Eclogae Geologicae Helvetiae*, vol. 83, no. 1, p. 163-175].

**CALLORBIX** Richardson and Low, 1991. Erroneous citation for *CALLORBIS* Wernli and Metzger, 1990.

[RICHARDSON, S. L., and LOW, D., 1991, Recent Literature on Foraminifera: *Journal of Foraminiferal Research*, vol. 21, no. 4, p. 364-366].

**CALOS** Schröder, Medioli and Scott, 1989. Type species *C. chalazius* Schröder, Medioli and Scott, 1989.

[SCHRÖDER, C. J., F. S. MEDIOLI and D. B. SCOTT, 1989, Fragile abyssal foraminifera (including new Komokiacea) from the Nares Abyssal Plain: *Micropaleontology*, vol. 35, no. 1, p. 10-48].

**CASPIRILLINA** Bykova, 1971. Type species *Caspirella mangischlakensis* Bykova, 1960.

[BYKOVA, N. K., 1971, On the question of the study of problematic issues in Mesozoic deposits (Maikopian deposits of Mangyshlak: *Voprosy Paleontologii*, vol. 6, p. 8-14; 98-100].

**CATENA** Schröder, Medioli and Scott, 1989. Type species *C. piriformis* Schröder, Medioli and Scott, 1989.

[SCHRÖDER, C. J., F. S. MEDIOLI and D. B. SCOTT, 1989, Fragile abyssal foraminifera (including new Komokiacea) from the Nares Abyssal Plain: *Micropaleontology*, vol. 35, no. 1, p. 10-48].

**CEREBRUM** Schröder, Medioli and Scott, 1989. Type species *C. coralliformis* Schröder, Medioli and Scott, 1989.

[SCHRÖDER, C. J., F. S. MEDIOLI and D. B. SCOTT, 1989, Fragile abyssal foraminifera (including new Komokiacea) from the Nares Abyssal Plain: *Micropaleontology*, vol. 35, no. 1, p. 10-48].

**CHONDRODAPIS** Mullineaux, 1988. Type species *C. hessleri* Mullineaux, 1988.

[MULLINEAUX, L. S., 1988, Taxonomic notes on large agglutinated foraminifers encrusting manganese nodules, including the description of a new genus, *Chondrodapis* (Komokiacea): *Journal of Foraminiferal Research*, vol. 18, no. 1, p. 46-53].

**CIFELLIA** Gibson, 1989. Type species *Chrysalidina costata* Heron-Allen and Earland, 1924.

[GIBSON, T. G., 1989, Miocene evolution of *Tubulogenerina* in the Indo-Pacific and African areas: *Journal of Foraminiferal Research*, vol. 19, no. 2, p. 126-145].

**CLADOS** Schröder, Medioli and Scott, 1989. Type species *C. floridus* Schröder, Medioli and Scott, 1989.

[SCHRÖDER, C. J., F. S. MEDIOLI and D. B. SCOTT, 1989, Fragile abyssal foraminifera (including new Komokiacea) from the Nares Abyssal Plain: *Micropaleontology*, vol. 35, no. 1, p. 10-48].

**COMPRESSOPULLENIA** Langer in Jung and Langer, 1990. Type species "*Nonion*" *septentrionalis* Langer, 1964.

[JUNG, D., and W. LANGER, 1990, Foraminiferen aus dem Oligozän des Schachtes Lohberg IV bei Hünxe a.d. Lippe (Niederrheinische Bucht): *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, vol. 180, no. 1, p. 75-96].

**CONCAVUTELLA** Bensch, 1987. Type species *Pseudofusulina? concavutas* Visarionova, 1949.

[BENSCH, F. R., 1987, Revision of the *Pseudofusulina* systematics, the genus *Pseudofusulina* Dunbar et Skinner, 1931 and similar genera: *Academy of Sciences of the USSR, Questions of Micropaleontology*, 29. Moscow "Nauka," 1987, p. 20-53].

**CONICOKURNUBIA** Septfontaine, 1988. Type species *C. orbitoliniformis* Septfontaine, 1988. This generic name had been previously proposed by the same author in 1981, and again in 1986. In both cases a type species was not designated thus making each proposal invalid.

[SEPTFONTAINE, M., 1988, Towards an evolutionary classification of Jurassic litiolids (Foraminifera) in carbonate platform environment: *Revue de Paléobiologie*, Vol. Spéc. No 2, p. 229-256].

- CONICOPFENDERINA** Septfontaine, 1988. Type species *Lituonella mesojurassica* Maync, 1972. This generic name had been twice previously proposed by the same author, in 1981, and again in 1986. In neither case was a type species designated thus making each proposal invalid.  
[SEPTFONTAINE, M., 1988, Towards an evolutionary classification of Jurassic lituolids (Foraminifera) in carbonate platform environment: *Revue de Paléobiologie*, Vol. Spéc. No. 2, p. 229-256].
- CONILIDISCUS** Vachard, 1988. Type species *Ammarchaediscus (Tubispirodiscus) settlensis* Conil in Conil, Longerstaey and Ramsbottom, 1979.  
[VACHARD, D., 1988, Towards a reasonable classification of the Archaediscidae (Foraminifera, Lower Middle Carboniferous): *Revue de Paléobiologie*, Vol. Spéc. No. 2, p. 103-123].
- CONNEMARELLA** Loeblich and Tappan, 1989. Type species *Gaudryina rudis* Wright, 1900.  
[LOEBLICH, A. R., JR., and H. TAPPAN, 1989, Implications of wall composition and structure in agglutinated foraminifers: *Journal of Paleontology*, vol. 63, no. 6, p. 769-777].
- CONOLAGENA** Malumián, Náñez and Caramés, 1991. Type species *C. argentina* Malumián, Náñez & Caramés, 1991.  
[MALUMIÁN, N., C. NÁÑEZ and A. CARAMÉS, 1991, Unilocular foraminifera of reticular surface from Argentina: *Micropaleontology*, vol. 37, no. 4, p. 393-406].
- CORONATOPLANULINA** Ujiie, 1990. Type species *C. okinawaensis* Ujiie, 1990.  
[UJIIÉ, H., 1990, Bathyal benthic foraminifera in a piston core from east off the Miyako Islands, Ryukyu Island Arc: *Bulletin of the College of Science, University of the Ryukyus*, No. 49, p. 1-60].
- CORYPHOSTOMELLA** Gawor-Biedowa, 1987. Type species *C. lublinensis* Gawor-Biedowa, 1987.  
[GAWOR-BIEDOWA, E., 1987, New benthic foraminifers from the Late Cretaceous of Poland: *Acta Palaeontologica Polonica*, vol. 32, no. 1-2, p. 49-71].
- CRAMBIS** Schröder, Medioli and Scott, 1989. Type species *C. conclavata* Schröder, Medioli and Scott, 1989.  
[SCHRÖDER, C. J., F. S. MEDIOLI and D. B. SCOTT, 1989, Fragile abyssal foraminifera (including new Komokiacea) from the Nares Abyssal Plain: *Micropaleontology*, vol. 35, no. 1, p. 10-48].
- CRIBREBELLA** Gawor-Biedowa, 1989. Type species *Cribrella lacrima* Gawor-Biedowa, 1987. Proposed as a replacement name for the preoccupied name *CRIBRELLA* Gawor-Biedowa, 1987.  
[GAWOR-BIEDOWA, E., 1989, New names for foraminiferal homonyms: *Journal of Paleontology*, vol. 63, no. 2, p. 257].
- CRIBRELLA** Gawor-Biedowa, 1987. Type species *C. lacrima* Gawor-Biedowa, 1987. Generic name preoccupied. See *CRIBREBELLA* Gawor-Biedowa, 1989.  
[GAWOR-BIEDOWA, E., 1987, New benthic foraminifers from the Late Cretaceous of Poland: *Acta Palaeontologica Polonica*, vol. 32, no. 1-2, p. 49-71].
- CRIBROTHALAMMINA** Goldstein and Barker, 1988. Type species *Hippocrepinella alba* Heron-Allen and Earland, 1932.  
[GOLDSTEIN, S. T., and W. W. BARKER, 1988, Test ultrastructure and taphonomy of the monothalamous agglutinated foraminifer *Cribrothalammina*, n. gen., *alba* (Heron-Allen and Earland): *Journal of Foraminiferal Research*, vol. 18, no. 2, p. 130-136].
- CZARKOWYELLA** Gawor-Biedowa, 1987. Type species *C. czarkowyensis* Gawor-Biedowa, 1987.  
[GAWOR-BIEDOWA, E., 1987, New benthic foraminifers from the Late Cretaceous of Poland: *Acta Palaeontologica Polonica*, vol. 32, no. 1-2, p. 49-71].
- DARGENIOELLA** De Castro, 1987. Type species *D. vesolei* De Castro, 1987.  
[DE CASTRO, P., 1987, On some foraminifera and algae in Apennine Upper Cretaceous and Paleocene: *Memorie della Società Geologica Italiana*, vol. 40, p. 109-124].

**DENSOPHTHALMIDIUM** Wang, 1985. Type species *D. umbonatum* Wang, 1985.

[WANG, N., 1985, New Triassic ophthalmediid genera and species from the eastern border of Longmenshan Mt., Sichuan: Professional Papers of Stratigraphy and Palaeontology, No. 15, Geological Publishing House, Beijing, p. 96-106].

**"DENTAGLOBOROTALIA"** Banner, 1990. Invalid, nomen nudum.

[BANNER, F. T., 1990, (Review of) HEMLEBEN, C., M. SPINDLER and O. R. ANDERSON, 1989, Modern Planktonic Foraminifera. Springer-Verlag, New York, 363 p.: The British Micropalaeontological Newsletter, no. 41, p. 28-29].

**DENTAGLOBOROTALIA** Hemleben, Spindler and Anderson, 1989. Type species *Globorotalia anfracta* Parker, 1967. Invalid, nomen nudum.

[HEMLEBEN, C., M. SPINDLER and O. R. ANDERSON, 1989, Modern Planktonic Foraminifera: Springer-Verlag New York Inc., 363 p.].

**DUQUEPSAMMIA** Seiglie and Baker, 1987. Type species *Spiroplectoides cubensis* Cushman and Bermúdez, 1937.

[SEIGLIE, G. A., and M. B. BAKER, 1987, Duquepsamminidae, a new family, and *Duquepsammia*, a new genus of agglutinated foraminifers: Micropaleontology, vol. 33, no. 3, p. 263-266].

**EARLANDAMMINA** Brönnimann and Whittaker, 1988. Type species *Trochammina inconspicua* Earland, 1934.

[BRÖNNIMANN, P., and J. E. WHITTAKER, 1988, The Trochamminacea of the Discovery Reports: British Museum (Natural History), London, 152 p.].

**ECHINONODOSARIA** Xia and Zhang, 1984. Type species *E. neimengguensis* Xia and Zhang, 1984.

[XIA, G., and Z. ZHANG, 1984, Foraminiferida: Tianjin Institute of Geology and Mineral Resources, Palaeontological Atlas of north China, 3. Micropalaeontological Volume, Geological Publishing House, Peking, p. 5-59].

**ECUADOROTA** Whittaker, 1988. Type species *E. bristowi* Whittaker, 1988.

[WHITTAKER, J. E., 1988, Benthic Cenozoic Foraminifera from Ecuador: British Museum (Natural History), London, 194 p.].

**ENDOTEBA** Vachard and Razgallah, 1988. Type species *E. controversa* Vachard and Razgallah, 1988.

[VACHARD, D., and RAZGALLAH, S., 1988, Importance phylogénétique d'un nouveau foraminifère Endothyroide: *Endoteba controversa* n. gen. n. sp. (Permien du Jebel Tebaga, Tunisie): Geobios, no. 1, fasc. 6, p. 805-811].

**EUSPHAEROIDINA** Ujjié, 1990. Type species *E. inflata* Ujjié, 1990.

[UJJIÉ, H., 1990, Bathyal benthic foraminifera in a piston core from east off the Miyako Islands, Ryukyu Island Arc: Bulletin of the College of Science, University of the Ryukyus, No. 49, p. 1-60].

**FAVOLAGENA** Malumián, Nández & Caramés, 1991. Type species *Lagena atilai* Bertels, 1964.

[MALUMIÁN, N., C. NÁÑEZ and A. CARAMÉS, 1991, Unilocular foraminifera of reticular surface from Argentina: Micropaleontology, vol. 37, no. 4, p. 393-406].

**FLORESINA** Revets, 1990. Type species *F. durrandi* Revets, 1990. Revets, 1990, proposed the new name *Floresina durrandi* to accommodate *Buliminella elegantissima* var. *compressa* Millett, 1900, a primary homonym of *Bulimina compressa* Bailey, 1851

[REVETS, S. A., 1990, The genus *Floresina*, gen. nov.: Journal of Foraminiferal Research, vol. 20, no. 2, p. 157-161].

**GEINITZINA (KANGBOELLA)** Xia and Zhang, 1984. Type species *G. (K.) kangboensis* Xia and Zhang, 1984.

[XIA, G., and Z. ZHANG, 1984, Foraminiferida: Tianjin Institute of Geology and Mineral Resources, Palaeontological Atlas of north China, 3. Micropalaeontological Volume, Geological Publishing House, Peking, p. 5-59].

**GEROCHAMMINA** Neagu in Hemleben, Kaminski, Kuhnt and Scott, 1990. Type species *G. stanislawi* Neagu in Hemleben, Kaminski, Kuhnt and Scott, 1990.

[NEAGU, T., 1990, *Gerochammina* n.g. and related genera from the Upper Cretaceous flysch-type benthic foraminiferal fauna, eastern Carpathians-Romania: in

HEMLEBEN, C., M. A. KAMINSKI, W. KUHNT and D. B. SCOTT, (Eds.), 1990, Paleoecology, Biostratigraphy, Paleooceanography and Taxonomy of Agglutinated Foraminifera: Kluwer Academic Publishers, Dordrecht, p. 245-265].

**GLOBOENDOTHYRA (GLOBOOMPHALOTIS)** Bogush, 1987. Type species *G. (G.) pseudosamarica* Bogush, 1987.

[BOGUSH, O. I., 1987, Systematic features and scope of the genus *Globoendothyra* Reitlinger, 1959 (Foraminiferida): Institut Geologii i Geofiziki, Akademiya Nauk SSSR, Sibirskoe otdelenie, Tr. 651, p. 71-95].

**GLOBOFLARINA** Rahaghi, 1983. Type species *Cyclorbiculina? sphaeroidea* Fleury, 1982.

[RAHAGHI, A., 1983, Stratigraphy and faunal assemblage of Paleocene-Lower Eocene in Iran: National Iranian Oil Company, Geological Laboratory Publication no. 10, p. 1-73].

**GLOBOOMPHALOTIS** Bogush, 1987. Refer to *GLOBOENDOTHYRA (GLOBOOMPHALOTIS)* Bogush, 1987.

**GLOBOSUBBOTINA** Spiegler in Tobien 1986. Type species *Globigerina eocaena* Gumbel, 1868.

[SPIEGLER, D., 1986, Gliederung des nordwestdeutschen Tertiärs (Paläogen und Neogen) aufgrund von planktonischen Foraminiferen: in TOBIEN, H., (Ed.), Nordwestdeutschland im Tertiär, Gebrüder Borntraeger, Berlin, p. 213-299].

**GLOBULOSPINELLA** Patterson, 1988. Type species *G. porcuspinata* Patterson, 1988.

[PATTERSON, R. T., 1988, *Globulospinella*, a new unilocular foraminiferal genus, and designation of a neotype for *Palliolatella avita* Patterson and Richardson: Journal of Paleontology, vol. 62, no. 4, p. 529-531].

**GLOMOTURRITELLELLA** Urošević, 1988. Type species *Turritellella magna* Urošević, 1981.

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- MIDIELLA** Pronina, 1988. Refer to *HEMIGORDIUS (MIDIELLA)* Pronina, 1988.
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- NODOBOLIVINELLA** Hayward, 1990. Type species *N. nodosa* Hayward, 1990. [HAYWARD, B. W., 1990, Taxonomy, paleobiogeography and evolutionary history of the Bolivinelidae (Foraminiferida): *New Zealand Geological Survey Paleontological Bulletin* 63, p. 1-132].
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1967. This generic name had been previously proposed by the same author in 1986, but was not described thus making the proposal invalid.

[SEPTFONTAINE, M., 1988, Towards an evolutionary classification of Jurassic lituolids (Foraminifera) in carbonate platform environment: *Revue de Paléobiologie*, Vol. Spéc. No. 2, p. 229-256].

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[SOTO-JARAMILLO, F., 1989, *Pessagniella* y *Parasigalia* novs. genera de foraminiferos planctonicos del Cretacico tardio: *Revista de la Sociedad Mexicana de Paleontologia*, vol. 1, no. 1, p. 78-95].

**PARAVALVULINA** Septfontaine, 1988. Type species *P. complicata* Septfontaine, 1988.

This generic name had been previously proposed by the same author in 1981, and again in 1986. In both cases a type species was not designated thus making each proposal invalid.

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**PLANISEPTA** Septfontaine, 1988. Type species *Lituosepta compressa* Hottinger, 1967.

This generic name had been previously proposed by the same author in 1986, but without a description, thus making the proposal invalid.

[SEPTFONTAINE, M., 1988, Towards an evolutionary classification of Jurassic lituolids (Foraminifera) in carbonate platform environment: *Revue de Paléobiologie*, Vol. Spéc. No. 2, p. 229-256].

**PLANOCONUSA** Brinkhuis and Zachariasse, 1988. Invalidly proposed superfluous replacement name for *PARVULARUGOGLOBIGERINA* Hofker, 1978.

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changes and planktonic foraminifers across the Cretaceous-Tertiary boundary at El Haria, northwest Tunisia: *Marine Micropaleontology*, vol. 13, p. 153-191].

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[BRÖNNIMANN, P., L. ZANINETTI and J. E. WHITTAKER, 1987, *Polskiammina*, a new trochamminid genus from shallow waters of the north Asiatic shelf (Protista: Foraminiferida): *Revue de Paléobiologie*, vol. 6, no. 1, p. 105-109].

**PONCEAMMINA** Seiglie in Seiglie, Haman and Baker, 1990. Type species *P. vancouveringi* Seiglie in Seiglie, Haman and Baker, 1990.

[SEIGLIE, G. A., M. B. BAKER and D. HAMAN, 1991, *Ponceammina vancouveringi*, n. gen., n. sp., (Ponceamminidae, Foraminiferida) from the Early Miocene of Puerto Rico: *Tulane Studies in Geology and Paleontology*, vol. 24, no. 4, p. 93-96].

**PRAEDICTYORBITOLINA** Schroeder, Clavel and Charollais, 1990. Type species *P. carthusiana* Schroeder, Clavel and Charollais, 1990.

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**PRAEDOROTHIA** Desai and Banner, 1987. Type species *Dorothia praeauterivica* Dieni and Massari, 1966.

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**PRAETENUITELLA** Li, 1987. Type species *P. praegemma* Li, 1987.

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**PSEUDOBAGGINA** Yasuda, 1987. Type species *P. hokkaidoana* Yasuda, 1987.

[YASUDA, H., 1986, Cretaceous and Paleocene Foraminifera from northern Hokkaido, Japan: *Science Reports of the Tohoku University, Sendai, Japan, Ser. 2, Geology*, vol. 57, no. 1, p. 1-101].

**PSEUDOCHUBBINA** De Castro, 1990. Type species *Pseudedomia globularis* Smout, 1963.

[DE CASTRO, P., 1990, Osservazioni paleontologiche sul Cretacico della località-tipo di Raadshoovenia salentina e su *Pseudochubbina* n. gen.: *Quaderni dell' Accademia Pontaniana*, no. 10, p. 1-199].

**PSEUDOCHUSENELLA** Bensch, 1987. Type species *Pseudofusulina pseudopointei* Rauser-Chernousova, 1969.

[BENSCH, F. R., 1987, Revision of the *Pseudofusulina* systematics, the genus *Pseudofusulina* Dunbar et Skinner, 1931 and similar genera: *Academy of Sciences of the USSR, Questions of Micropaleontology*, 29. Moscow "Nauka," 1987, p. 20-53].

**PSEUDOEGGERELLA** Septfontaine, 1988. Type species *P. elongata* Septfontaine, 1988. This generic name had been previously proposed by the same author in 1986, but without a description or type species designation, thus making the proposal invalid.

[SEPTFONTAINE, M., 1988, Towards an evolutionary classification of Jurassic litiolids (Foraminifera) in carbonate platform environment: *Revue de Paléobiologie*, Vol. Spéc. No. 2, p. 229-256].

**PSEUDONUMMULOCULINA** Calvez, 1988. Type species *P. aurigerica* Calvez, 1988.

Junior objective synonym and primary homonym of *PSEUDONUMMULOCULINA* Calvez, 1986. This binomen was proposed, without illustration, in abstract form by Calvez, 1986. Loeblich and Tappan, 1987, state that the 1986 proposal is valid, despite not being illustrated, due to a combined generic and specific description being provided in the abstract. No mention of the 1986 publication was made by Calvez in the

1988 article which is contrary to Recommendation E22 of the ICZN. However, following the argument of Loeblich and Tappan, 1987, it appears that the 1986 date has priority over the 1988 date thus making the 1988 binomen both a junior objective synonym and primary homonym of the name published in 1986.

[CALVEZ, H., 1988, *Pseudonummuloculina aurigerica* n. gen., n. sp. et *Dobrogelina? angulata* n. sp., deux foraminifères nouveaux de l'Albien calcaire des Pyrénées Franco-Espagnoles: Revue de Paléobiologie, Vol. Spéc. No. 2, p. 391-399].

**PSEUDOTABERINA** Eames in Davies, 1971. Type species *Orbitolites malabarica* Carter, 1853. This genus was cited in Loeblich and Tappan, 1987, p. 725, with the comment that the original reference in which the genus was erected had not been seen. Banner and Highton, 1989, (Journal of Micropalaeontology, vol. 8, no. 1, p. 113-129) clarified the status of the genus, verified the original type species and documented the literature source.

[EAMES, F. E., 1971, (Revision of) DAVIES, A. M., 1971, Tertiary Faunas. A Textbook for Oilfield Palaeontologists and Students of Geology. Vol. 1: The Composition of Tertiary Faunas. Ed.2, George Allen & Unwin Ltd., London. 571 p.].

**PULLENIELLA** Ujiie, 1990. Type species *P. asymmetrica* Ujiie, 1990.

[UJIIÉ, H., 1990, Bathyal benthic foraminifera in a piston core from east off the Miyako Islands, Ryukyu Island Arc: Bulletin of the College of Science, University of the Ryukyus, No. 49, p. 1-60].

**PUNCTOBOLIVINELLA** Hayward, 1990. Type species *Bolivinella philippinensis* McCulloch, 1977.

[HAYWARD, B. W., 1990, Taxonomy, paleobiogeography and evolutionary history of the Bolivinellidae (Foraminiferida): New Zealand Geological Survey Paleontological Bulletin 63, p. 1-132].

**QUADRIAPERTURINA** Gawor-Biedowa, 1987. Type species *Q. varsoviensis* Gawor-Biedowa, 1987.

[GAWOR-BIEDOWA, E., 1987, New benthic foraminifers from the Late Cretaceous of Poland: Acta Palaeontologica Polonica, vol. 32, no. 1-2, p. 49-71].

**RECTOGRANULIFERELLA** Conil and Lys in Mansy, Conil, Meilliez, Khatir, Delcambre, Groessens, Lys, Poty, Swennen, Trentesaux and Weyant, 1989. Type species *Palaeospiroplectammia(?) godini* Conil, 1980.

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