
Bivalves

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1. Early Cretaceous Bivalvia, By James S. Crampton

Despite this, taxonomic and phylogenetic relationships within the family are relatively poorly resolved because of widespread homoplasy, commonly high levels of intraspecific morphological variability, and the paucity of useful morphological characters. Page 89

In other cases, however, they obscure taxonomic and phylogenetic relationships and distort estimates of standing diversity and taxic rates. These problems may be acute in fossil groups such as the inoceramids that have rich and well-studied fossil records and experienced apparently rapid, phyletic evolution. Page 92

The problem is further complicated by taxonomic uncertainties involving some key ammonite lineages (e.g., Amedro, 1992). Page 97

2. Late Triassic Bivalvia, By Christopher A. Mc Roberts

The origin of Halobia from Daonella, Apaimella, or other posidoniid is unclear. Early workers who have considered the question (e.g., Bronn, 1830; Smith, 1927; Encheva, 1978) support a monophyletic origin of Halobia derived directly from Daonella. Other authors, most notably Ichikawa (1958), Gruber (1976) and Polubotko (1984) have suggested that Halobia s.l. was polyphyletic with members evolving directly from some combination of one or more Daonella and/or Peribositria lineages. Page 624

3. Resolution of the family Dreissenidae, By Thomas W. Therriault

Considerable uncertainty exists in determination of the phylogeny among extant members of the Dreissenidae, especially those inhabiting the Ponto-Caspian basin, as multiple systematic revisions based on morphological characteristics have failed to resolve relationships within this group of bivalves. Page 479

These analyses have resulted in confusion regarding phylogenetic relationships within the family. Page 479

References

1. Early Cretaceous Bivalvia, By James S. Crampton, Journal of Paleontology, 2009, Volume 83, Number 1, Pages 89 To 109

2. Late Triassic Bivalvia, By Christopher A. Mc Roberts, Journal of Paleontology, 2011, Volume 85, Number 4, Pages 613 To 664

3. Resolution of the family Dreissenidae, By Thomas W. Therriault, Molecular Phylogenetics and Evolution, 2004, Volume 30, Pages 479–489

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