

Contribution to the systematics and phylogeny of Amphiastraeina (Scleractinia)

Galina K. Melnikova and Ewa Roniewicz

Acta Palaeontologica Polonica 21 (1), 1976: 97-114

Amphiastraeina are connected with their presumed ancestors, Permian Polycoeliidae, by a transitional link - Triassic corals of the family Pachythecalidae Cuif, 1975. During the early Jurassic they differendiated into a few phylogenetic lines and developed certain structural patterns of corallites homeomorphic with those of Rugosa, which had not been, however, recognized in their ancestral group (lonsdaleoid septa/dissepiments, gemmation). Four families are recognized: Amphiastraeidae Ogilvie, Donacosmiliidae Krasnov emend. Roniewicz, Carolastraeidae Eliasova, and Intersmiliidae Melnikova & Roniewicz, fam.n. The earliest Amphiastraeina are described from the ?Hettangian-Sinemurian through the Bajocian and the Callovian of South-East Pamir. One new genus, *Prodonacosmilia* Melnikova is distinguished.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.



[Full text \(1,855.9 kB\)](#)