

Redescription of the original collection of *Zaphrentis calyculus* Miller, 1881, Rugosa

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The type material of the Tournaisian *Zaphrentis calyculus* from the Miller's (1891) collection, redescribed by Easton (1944) has been re-investigated. The better preserved specimens are assigned to 5 species and 5 genera (among them *Rotiphyllum diutinum* sp. n., *Petraria* (?) *milleri* sp. n. and *Patularima* gen. n. Some forms are described in open nomenclature. The taxa are discussed in terms of morphology, ontogeny, intraspecific variability and relationships. Environmental and/or genetic control of straight, widely-flaring and horn shapes and of stereoplasmic infilling is discussed.

Key words: Rugosa, morphology, ontogeny, taxonomy, environment, Carboniferous, Tournaisian.

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