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Koralionastetales, a new order of marine *Ascomycota* in the *Sordariomycetes*

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Abstract

Based on molecular studies using 1760 bp of the nuSSU and 604 bp of the nuLSU rRNA genes and using morphological characters, the genera *Koralionastes* and *Pontogeneia* are assigned to the new order *Koralionastetales*, family *Koralionastetaceae*, class *Sordariomycetes*. *Koralionastetales* is a sister group to *Lulworthiales*; differences in morphological characters are expressed in the ascospores and the presence/absence of periphyses and paraphyses. A new species of *Pontogeneia*, *P. microdictyi* from *Microdictyon* sp. in the Bahamas, is described.



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Keywords

Ascomycetes; *Koralionastes*; Marine fungi; Phylogeny; *Pontogeneia*

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