

***Reticulothyris*, a new name for preoccupied *Reticularia* McCoy 1840 (*Brachiopoda*) non *Reticularia* Bulliard 1787/1788 (*Fungi: Myxomycetes* vel *Protista: Amoeba*)**

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ABSTRACT

Doweld A.B. 2022. *Reticulothyris*, a new name for preoccupied *Reticularia* McCoy 1840 (*Brachiopoda*) non *Reticularia* Bulliard 1787/1788 (*Fungi: Myxomycetes* vel *Protista: Amoeba*). *Geophytology* 52(1&2): 43–45.

The overlooked homonymy of the ambiregnal fungal or protist extant generic name *Reticularia* Bulliard 1787/1788 with the fossil-generic name of *Brachiopoda*, *Reticularia* McCoy 1840, is resolved by the proposal of a new fossil-generic name *Reticulothyris* nom. nov. New suprageneric coordinated names, superfamily *Reticulothyridoidea* superfam. nov., family *Reticulothyrididae* fam. nov. and subfamily *Reticulothyridinae* subfam. nov., are validated instead of the illegitimate family *Reticulariidae* Waagen 1883 non *Reticulariidae* (*Reticulariaceae*) Chevallier 1826.

Keywords: Botanical nomenclature, *Myxomycetes*, *Brachiopoda*, *Protista*, *Amoeba*, zoological nomenclature.

INTRODUCTION

The generic name *Reticularia* McCoy (1844: 142; type species *Terebratula imbricata* Sowerby (1822: 40), by first designation of Davidson 1882: 80), was proposed for a new fossil brachiopod genus from the Lower Carboniferous (Visean) of England (Laurussia: Avalonia) (George 1932). The genus is in current use in modern fossil brachiopod systematics (Carter & Gourvenec 2006), being served as a basis for a distinct family *Reticulariidae* Waagen (1883: 538, ex *Reticulariinae* nom. transl. by Ivanova 1959: 56) and even superfamily *Reticularioidea* (Ivanova 1959, Pitrat 1965, Carter & al. 1994, Carter & Gourvenec 2006). However, this name is preoccupied by the generic name *Reticularia* Bulliard (1787/1788: pl. 326) [(*Fungi: Myxomycetes* vel *Protista: Amoeba* (*Mycetozoa*): *Reticulariidae* Chevallier 1826: 341

(“*Reticularieae*”)], which is in current use for an extant mycetozoan (Loeblich & Tappan 1961, Olive 1975) of nearly 88 described species (Index Fungorum 2022). The mycetozoan genus *Reticularia* is simultaneously and traditionally also treated as fungi (*Myxomycetes*), constituting a distinct family *Reticulariaceae* Chevallier of the order *Liceales* Alexandrowicz (1872) (Ladó & al. 1998, Ladó 2001, Novozhilov & Goodkov 2001). In the past, a distinct order *Reticulariida* (*Reticulariales*) Rostafinski (1874: 48 as “*Reticularieae*”) was even proposed, although not currently recognized.

To resolve homonymy, since the extant mycetozoan genus is in current use, in accordance with article 60 of the International Code of Zoological Nomenclature (1999), *Reticulothyris* nom. nov. (Type species: *Terebratula imbricata* Sowerby 1822), is here

proposed as a replacement name for later homonym *Reticularia* McCoy 1844 non Bulliard 1787/1788. *Reticulothyrididae* fam. nov. is proposed also to replace illegitimate family name *Reticulariidae* Waagen 1883 along with necessitated coordinated superfamily *Reticulothyridoidea* Doweld superfam. nov. and subfamily *Reticulothyridinae* Doweld subfam. nov., which are in current use in fossil brachiopod systematics (Carter & Gourvenec 2006).

SYSTEMATICS

Phylum: *Brachiopoda* Duméril 1806

Class: *Rhynchonellata* Williams & al. 1996

Order: *Spiriferida* Waagen 1883

Superfamily: *Reticulothyridoidea* Doweld, **superfam. nov.**

With the characters of the family (see below).

Family: *Reticulothyrididae* Doweld, **fam. nov.**

Type: *Reticulothyris* Doweld, **nom. nov.**

Description: Lateral slopes smooth to rarely plicate; fold and sulcus (if any) smooth; microornament concentrically arranged, consisting of growth lamellae and uniramous spinules or tubercles; dental adminicula present, true ventral septum lacking, but sometimes with median ridge or myophragm.

Age: Silurian (Upper Llandovery)–Permian.

14 genera in 2 subfamilies: subfam. *Reticulothyridinae* Doweld, subfam. nov. and subfam. *Reticulariopsinae* Gourvenec 1994 (in Carter & al. 1994: 355).

Subfamily: *Reticulothyridinae* Doweld, **subfam. nov.**

With the characters of the family (see above). Six genera: *Reticulothyris* Doweld, nom. nov., *Georgethyris* Minato, *Parareticularia* Li & Gu, *Squamularia* Gemmellaro, *Undispirifer* Havlicek and *Undispiriferoides* Xian.

Genus: *Reticulothyris* Doweld, **nom. nov.**

= *Reticularia* McCoy 1844 non Bulliard 1787/1788.

Type species: *Reticulothyris imbricata* (Sowerby) comb. nov. (= *Terebratula imbricata* Sowerby 1822: 40).

Age and Location: Lower Carboniferous (Visean); England, U.K.

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