

Nomenclatural novelties : Alexander B. Doweld

Coenomycetaceae Doweld, fam.nov.

IF550359

Thallus epi- and endobiotic, eucarpic, consisting of filamentous much branched, segmented by cross walls loose, multinucleate hyphal tubes bearing occasional irregular intercalary swellings; endobiotic part less branched, with occasional swollen appressoria. Sporangia inoperculate, borne extramatrically at the tips of hyphal branches or occasionally sessile on the host cell, pyriform, ovoid, or bursiform. Zoospores posteriorly uniflagellate, emerging fully formed through a single (rarely two) long discharge tube(s), ellipsoidal or pyriform, with several golden-yellow lipid globules. Resting spores not observed. Parasitic in Nostocophyceae.

Holotype: *Coenomyces* K.N. Deckenb. 1901.

Coenomycetales Doweld, ord.nov.

IF550360

Thallus with definite cross walls that divide the multinucleate mycelium into long segments, with haustoria, septa, and possibly plasmodesmata. Zoospores tapering toward a single posterior flagellum, anterior kinetosome, distinctive microbody-lipid globule complex, electron-opaque helix associated with the kinetosome and several lipid globules, nucleus beaked, lacking rumposome, props, non-flagellated kinetosome and flagellar roots.

Holotype *Coenomyces* K. N. Deckenbach.

Coenomycetes Doweld, class.nov.

IF550361

Hyphal system with definite cross walls that divide the multinucleate mycelium into long segments, with haustoria, septa, and (?) plasmodesmata. Zoospores with anterior kinetosome, distinctive microbody-lipid globule complex, electron-opaque helix associated with the kinetosome and lipid globules and beaked nucleus, lacking rumposome, props, non-flagellated kinetosome and flagellar roots. NOTE: Art. 16.4 allows to use the abridged form of spelling *Coenomycetes* as a correct form (not a mistake) instead of complex *Coenomycetomycetes*.

Holotype *Coenomyces* K. N. Deckenbach.