

Clavochytridiaceae Doweld, fam.nov.

IF550414

Thallus endogenous-monocentric, consisting of a single extramatrical, tubular simple reproductive rudiment, bearing rhizoids, or reproductive rudiment borne at the apex of unbranched basal cell (without pseudosepta) anchored by rhizoids to the substratum. Zoosporangium terminal, thin-walled, with one to several discharge papillae. Resting spores with thick two-layered walls (outer variously sculptured). Zoospores posteriorly uniflagellate, with several lipid globules and nuclear cap, side body complex composed of cup-shaped fenestrated microbody, mitochondrion single, surrounds kinetosome, proximal part of kinetosome radiates system of microtubules extending anteriorly to form a basket-like network around nucleus; rootlet striated, embedded, in channels of mitochondrion, non-functional kinetosome anterior, at acute to right angle to the axis of functional kinetosome; flagellar terminal plate proximal; gamma-bodies present.

Holotype: *Clavochytridium* Couch & H.T. Cox 1939.

Clavochytridium anabaenae (Canter & Willoughby) Doweld, comb.nov.

IF550392

Basionym: *Blastocладиella anabaenae* Canter & Willoughby, *J. Roy. Microscop. Soc. Ser. 3* **83**: 370 (1964)

Clavochytridium asperatum Doweld, sp.nov.

IF550410

= *Blastocладиella asperosperma* Couch & Whiffen in *Amer. J. Bot.* 29(7): 588-589. 1942, nom. inval. [description in English and Latin]. Nomenclatural comment: *Blastocладиella* as a genus was not validly published neither in 1937 or 1942.

Holotype (iconotypus) figs. 29-35, 41, 43-45, 66 in *Amer. J. Bot.* 29(7): 582-591. 1942.

Clavochytridium britannicum (Horenst. & Cantino) Doweld, comb.nov.

IF550340

Basionym: *Blastocладиella britannica* Horenst. & Cantino, *Trans. Br. mycol. Soc.* **44**(2): 197 (1961)

Clavochytridium colombiense (Karling) Doweld, comb.nov.

IF550342

Basionym: *Blastocладиella colombiensis* Karling, *Nova Hedwigia* **40**(1-4): 330 (1985) ['1984']

Clavochytridium cystogenum Doweld, sp.nov.

IF550409

= *Blastocладиella cystogena* Couch & Whiffen in *Amer. J. Bot.* 29(7): 589. 1942, nom. inval. [description in English and Latin]. Nomenclatural comment: *Blastocладиella* as a genus was not validly published neither in 1937 or 1942.

Holotype (iconotypus) figs. 1-14, 47, 49-63 in *Amer. J. Bot.* 29(7): 582-591. 1942.

Clavochytridium emersonii (Cantino & Hyatt) Doweld, comb.nov.

IF550341

Basionym: *Blastocладиella emersonii* Cantino & Hyatt, *Antonie van Leeuwenhoek* **19**: 67 (1953)

Clavochytridium laevisporangiatum Doweld, sp.nov.

IF550408

= *Blastocладиella laevisperma* Couch & Whiffen in *Amer. J. Bot.* 29(7): 589. 1942, nom. inval. [description in English and Latin]. Nomenclatural comment: *Blastocладиella* as a genus was not validly published neither in 1937 or 1942.

Holotype (iconotypus) figs. 15-28, 36-40, 42, 46, 65 in *Amer. J. Bot.* 29(7): 582-591. 1942.

Clavochytridium microcystogenum (Whiffen) Doweld, comb.nov.

IF550339

Basionym: *Blastocладиella microcystogena* Whiffen, *J. Elisha Mitchell scient. Soc.* **62**: 57 (1946)

Clavochytridium novae-zelandiae (Karling) Doweld, comb.nov.

IF550343

Basionym: *Blastocладиella novae-zelandiae* Karling, *Sydowia* **20**: 146 (1968) ['1966']

Clavochytridium simplex Doweld, sp.nov.

IF550411

= *Blastocладиella simplex* V.D. Matthews in *J. Elisha Mitchell Sci. Soc.* 53: 194 (1937), nom. inval. [description in English, lacking Latin]. Nomenclatural comment: *Blastocладиella* as a genus was not validly published in 1937.

Holotype (iconotypus) tab. 20-21 in *J. Elisha Mitchell Sci. Soc.* 53: 194 (1937).

Clavochytridium stuebenii Doweld, sp.nov.

IF550412

= *Sphaerocladia variabilis* StÅ¼ben in *Planta* 30: 364. 1939, nom. inval. [lacking Latin description] = *Blastocладиella stuebenii* Couch & Whiffen in *Amer. J. Bot.* 29: 588, 1942 (*stÅ¼benii*), nom. inval. [lacking Latin description or reference to previously validly published taxon] - Long life cycle, two equal generations, asexual and sexual; sporangia and gametangia usually sessile; both gametangia colourless (after Couch & Whiffen, l.c.).

Holotype (iconotypus) text-figs. 1-6, 8-12 in *Planta* 30: 353-383. 1939.

Clavochytridium variabile Doweld, sp.nov.

IF550413

= *Rhopalomyces variabilis* Harder & SÅ¼rgel in *Nachr. Ges. Wiss. GÅ¼ttingen, Math.-Natur. Kl. N. Folge, Fachgr. 6, Nachr. Biol.* 3(5): 126 (26 Feb 1938), nom. inval. [lacking Latin description; diagnosis in German only]. = *Blastocладиella variabilis* (Harder & SÅ¼rgel) Nabel in *Arch. Mikrobiol.* 10: 526 (1939), comb. inval. - Long life cycle, two equal generations, asexual and sexual; sporangia and gametangia usually stalked; male gametangium orange (after Couch & Whiffen in *Amer. J. Bot.* 29: 588. 1942) - Nomenclatural comments: *Blastocладиella* as a generic name was not validly published in 1937 and 1939 due to the lack of obligatory Latin diagnosis (description).

Holotype (iconotypus) text-figs. 1-2, 4B-E in Harder & SÅ¼rgel, l.c. 1938..