

Nomenclatural novelties : Alexander B. Doweld

Leiolpidium Doweld, gen.nov.

IF550480

Zoosporangia endobiotic, parasitizing epidermal root cells, spherical to elongate, 15-150 Åµm di-am., walls laevigate, transparent, with 1 to 3 exit tubes, 4-40 Åµm long; rhizoidal system lacking. Zoospores 7-8 Åµm long, elongated to obpyriform; nucleus anterior; multiple refractive granules in the central and the posterior area; flagellum single, posteriorly attached, whiplash, 18-20 Åµm long, fully formed upon discharge but at first remaining immotile, surrounding the orifice of the exit tube; flagellar axoneme extends through the zoospore to the kinetosome, connected to the nuclear envelope by a very short fibrous rhizoplast. Resting sporangia endobiotic in epidermal or cortical root cells, spherical to elongate, 15-100 Åµm wide, walls 3-5 Åµm thick, laevigate, occasionally with thickened corners; mesospore laevigate, endospore with a honeycomb-like pattern to verrucose. Intracellular parasites of the roots of herbaceous plants.

Holotype: *Leiolpidium cucurbitacearum* (D.J.S. Barr & Dias) Doweld 2014.

Leiolpidium agrostidis (Sampson) Doweld, comb.nov.

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Basionym: *Olpidium agrostidis* Sampson, *Trans. Br. mycol. Soc.* **17**(3): 192 (1932)

Leiolpidium bornovanum Doweld, sp.nov.

IF550479

Sporangium spherical 20-60 Åµm, elongate 17-45 x 38-300 Åµm, with 1 to 3 exit tubes closed by gelatinous plug; zoospores pyriform, 7.0-8.3 Åµm; resting spores spherical 32-46, elongate 13-32 x 35-122 Åµm, mesospore laevigate, endospore with a honeycomb-like pattern. NOMENCLATURAL COMMENTS: Based on invalidly published (=) *Pleotrachelus bornovanus* Sahtiy. in *Arch. Mikrobiol.* **41** (2): 217 (1962), nom. inval. (lacking holotype designation). = *Olpidium bornovanus* (Sahtiy.) Karling, *Chytridiomycet. Iconogr.*: 16 (1977), comb. inval.

Holotype UC 1475120; Isotypi: UC1475121 & UC1475122 .

Leiolpidium cucurbitacearum (D.J.S. Barr & Dias) Doweld, comb.nov.

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Basionym: *Olpidium cucurbitacearum* D.J.S. Barr & Dias, *Can. J. Bot.* **46**: 1087 (1968)

Leiolpidium pisi (Hammarl.) Doweld, comb.nov.

IF550483

Basionym: *Olpidium pisi* Hammarl., *Ark. Bot.* **25A**(no. 3): 5 (1933)

Leiolpidium radicale (Schwartz & Ivimey Cook) Doweld, comb.nov.

IF550482

Basionym: *Olpidium radicale* Schwartz & Ivimey Cook, *Trans. Br. mycol. Soc.* **13**(3-4): 216 (1928)