

Nomenclatural novelties : Alexander B. Doweld

**Zygophlyctis** Doweld, gen.nov.

**IF550450**

Thallus monocentric, eucarpic, sporangium and resting spore developed by direct enlargement of the zoospore. Sporangium ampulliform to pyriform. Rhizoidal system endobiotic, of branched threads; operculum develops at the top of an apical papilla; dehiscence apical. Zoospores with dispersed or loosely aggregated ribosomes and a rumposome complex, possess a number of vesicle types (fibrillar vesicle lies adjacent to the rumposome); nonfunctional centriole constructed of a ring of singlet microtubules and often completely disassociated from the kinetosome. Resting spores globose, spherical.

Holotype: *Zygophlyctis planktonica* Doweld 2014.

**Zygophlyctis planktonica** Doweld, sp.nov.

**IF550449**

Thallus monocentric, eucarpic, sporangium and resting spore developed by direct enlargement of the zoospore. Sporangium ampulliform to pyriform, 4  $\mu\text{m}$  long x 3  $\mu\text{m}$  broad to 13  $\mu\text{m}$  long x 11.2-11.9  $\mu\text{m}$  broad. Rhizoidal system consisting of a single axis which terminates endobiotically in a short system of branched threads. Operculum 2-3.7  $\mu\text{m}$  diam, develops at the top of an apical papilla; dehiscence apical. Zoospores 3-40 per sporangium, spherical, 2.5-3  $\mu\text{m}$  diam., with a single globule; flagellum 15  $\mu\text{m}$  long, whiplash portion less than 1  $\mu\text{m}$ ; with dispersed or loosely aggregated ribosomes and a rumposome complex, possess a number of vesicle types (fibrillar vesicle lies adjacent to the rumposome); non-functional centriole constructed of a ring of singlet microtubules and often completely disassociated from the kinetosome. Resting spores globose, spherical, rarely broadly oval 4-8  $\mu\text{m}$  long x 4.3  $\mu\text{m}$  broad to 12.5  $\mu\text{m}$  long x 11.2-11.9  $\mu\text{m}$  broad; walls thick, smooth, composed of several large refractive globules surrounded by groups or lines of more numerous, small peripheral globules. Formed after fusion of two thalli via a conjugation tube up to 20  $\mu\text{m}$  long. Empty male thallus (2.4 x 2.4  $\mu\text{m}$  to 7 x 6.9  $\mu\text{m}$ ). Rhizoidal system of male and female thallus similar to that of sporangium. (Modified after Canter in Bot. J. Linn. Soc. 60: 89. 1967).

NOMENCLATURAL COMMENTS: A new species name is validated instead of invalidly published *Zygorhizidium planktoicum* Canter in Trans. Brit. Mycol. Soc. 36: 34. 1953 (lacking Latin description) and *Zygorhizidium planktonicum* Canter in Bot. J. Linn. Soc. 60: 89. 1967 (lacking holotype designation).

Holotype (iconotypus) figs. tab. 2, fig. 3; tab 3, fig. 7; tab in Bot. J. Linn. Soc. 60: 89. 1967.