Perolpidium Doweld, gen.nov.
   IF550494
Sporangium irregularly lobed or branched, tube-like, simply sac-like or with a bulging outgrowth or several broad finger-like branches, much branched, sometimes constricted in the mid-region, walls laevigate, colorless, with a single sessile or rarely elongate and bent, sharply defined cylindrical discharge pore; zoospores very numerous, spherical, minute, with a conspicuous lipid globule and a single long posteriorly attached flagellum, movement gliding or amoeboid. Resting spores thick-walled, spherical or ellipsoidal or pyriform, apparently asexually formed by contraction of the protoplasm of the thallus.
   Holotype: *Perolpidium saccatum* (Sorokin) Doweld 2014.

**Perolpidium saccatum** (Sorokin) Doweld, comb.nov.
   IF550492
   Basionym: *Olpidium saccatum* Sorokin, *Arch. Bot. N. France* 2: 30 (1883)

**Perolpidium utriculiforme** (Scherffel) Doweld, comb.nov.
   IF550493