Volvoracaceae Doweld, fam.nov.

\textbf{IF550460}

Thallus intracoenobial, sac-like with rhizoidal outgrowths. Zoospores spherical, uniflagellate (sometimes multifulagellate (up to 6 flagella known), flagellum short, posterior; with two minute contractile vacuoles and 1-2 lateroposterior refractive globules, bearing up to six short rod-like processes. Prosporangium uninucleate, producing interbiotic rhizoids. Sporangia spherical or oval, columnar, or top-shaped, dehiscent apically. Resting spores (â€œzygosporesâ€™) (sub)spherical, composed of numerous globules, with small spines or pegs, developed as an outgrowth of a fusion thallus. On germination, the spore buds out a sporangium.

Holotype: \textit{Volvorax} Doweld 2013.