Trachelomonas volvocina

(Ehrenberg) Ehrenberg, 1834

Most likely ID: n.a.

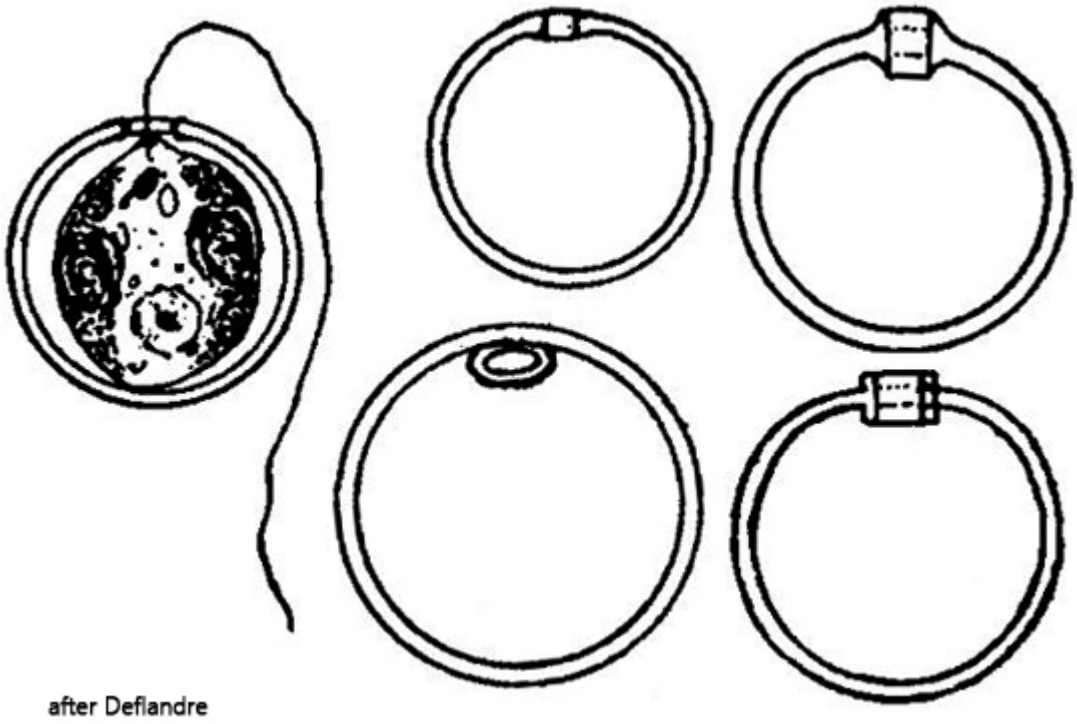
Synonym: n.a.

Sampling location: Simmelried

Phylogenetic tree: *Trachelomonas volvocina*

Diagnosis:

- lorica spherical, smooth, yellowish-brown
- diameter 6–32 µm
- apical pore without or a low, thickened collar
- surface of lorica smooth without spines
- two chloroplasts with each one pyrenoid
- eyespot large
- flagellum 2–3 time of body length



Trachelomonas volvocina

I find *Trachelomonas volvocina* frequently and regularly in the Simmelried between floating plant masses. The species is easy to recognize by its spherical, smooth lorica. In my population, the lorica aperture is usually thickened in a ring shape (s. fig. 1 a-d). However, there are also forms without such a thickening. *Trachelomonas volvocina* is said to have two chloroplasts, each with a pyrenoid. But since the specimens in my population were all completely filled with paramylon grains, I could not recognize this exactly (s. fig. 1 c). The eyespot of *Trachelomonas volvocina* is very large and conspicuous (s. fig. 1 a).

The similiar species *Trachelomonas cervicula* has an apical pore surrounded by a low flat thickening and with a cylindrical canal extending inwards into the lorica. The lorica of the second similar species, *Trachelomonas curta*, is compressed and appears oval in apical view.

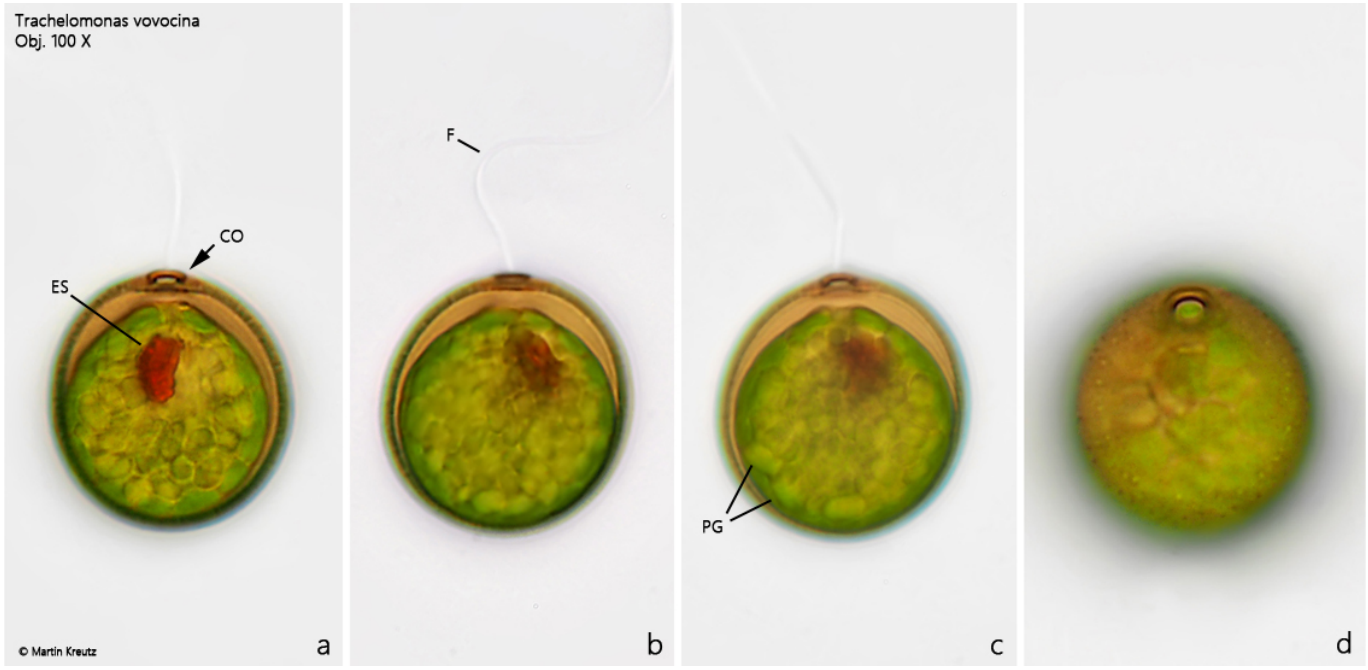


Fig. 1 a-d: *Trachelomonas volvocina*. D = 24 µm. A freely swimming specimen with a thickened collar (CO). ES = eyespot, F = flagellum, PG = paramylon grains. Obj. 100 X.