

Trachelomonas manginii f. subpunctata

Safanova, 1963

Most likely ID: n.a.

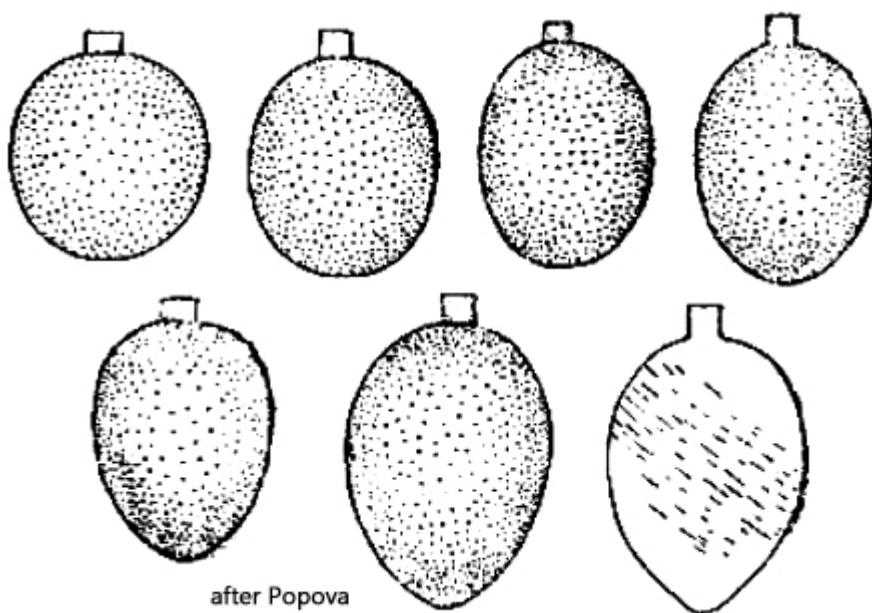
Synonym: n.a.

Sampling location: [Simmelried](#)

Phylogenetic tree: [*Trachelomonas manginii f. subpunctata*](#)

Diagnosis:

- lorica ellipsoidal, rhomboid or ovoid
- length 22.4–26.4 μm (with neck)
- narrow neck cylindrical or subcylindrical
- lorica brownish or yellowish, finely dotted
- several disc-shaped chloroplasts without pyrenoid
- flagellum about twice body length
- eyespot large



Trachelomonas manginii f. subpunctata

So far, I have found *Trachelomonas manginii* f. *subpunctata* exclusively in the [Simmelried](#). The shape of the lorica shows some variability. I have mainly found specimens with an almost spherical lorica (s. fig. 3 a-c) and ellipsoid specimens (s. figs. 1 a-c and 2 a-c). All specimens had a comparatively narrow neck, which is clearly set off from the lorica and has a cylindrical or slightly conical shape. The apical margin of the neck is smooth, without spines. The lorica has a uniform thickness and all specimens I examined had distinct punctuation, as Popova (1966) illustrated (s. drawings above).

My specimens were about 10% larger than those investigated by Popova but corresponded in all other characteristics to the description of *Trachelomonas manginii* f. *subpunctata*. The basic form *Trachelomonas manginii* has a smooth shell without punctuation but is otherwise identical.

The similar species *Trachelomonas plantonica* has a strongly punctuated or scrobiculate (furrowed, pitted) thick-walled lorica with a spherical or broadly ellipsoid shape and a cylindrical neck. The neck is 4–5 μm wide and 2.6–4 μm high (Huber-Pestalozzi, 1955). Popova also reports a neck height of up to 4 μm . In my specimens, the neck was 3.6–4.2 μm wide and 2.4–2.9 μm high, thus narrower and shorter. It also had a smooth, non-serrated apical rim, and the thin-walled lorica had only fine punctuation. These features indicate *Trachelomonas manginii* f. *subpunctata*.

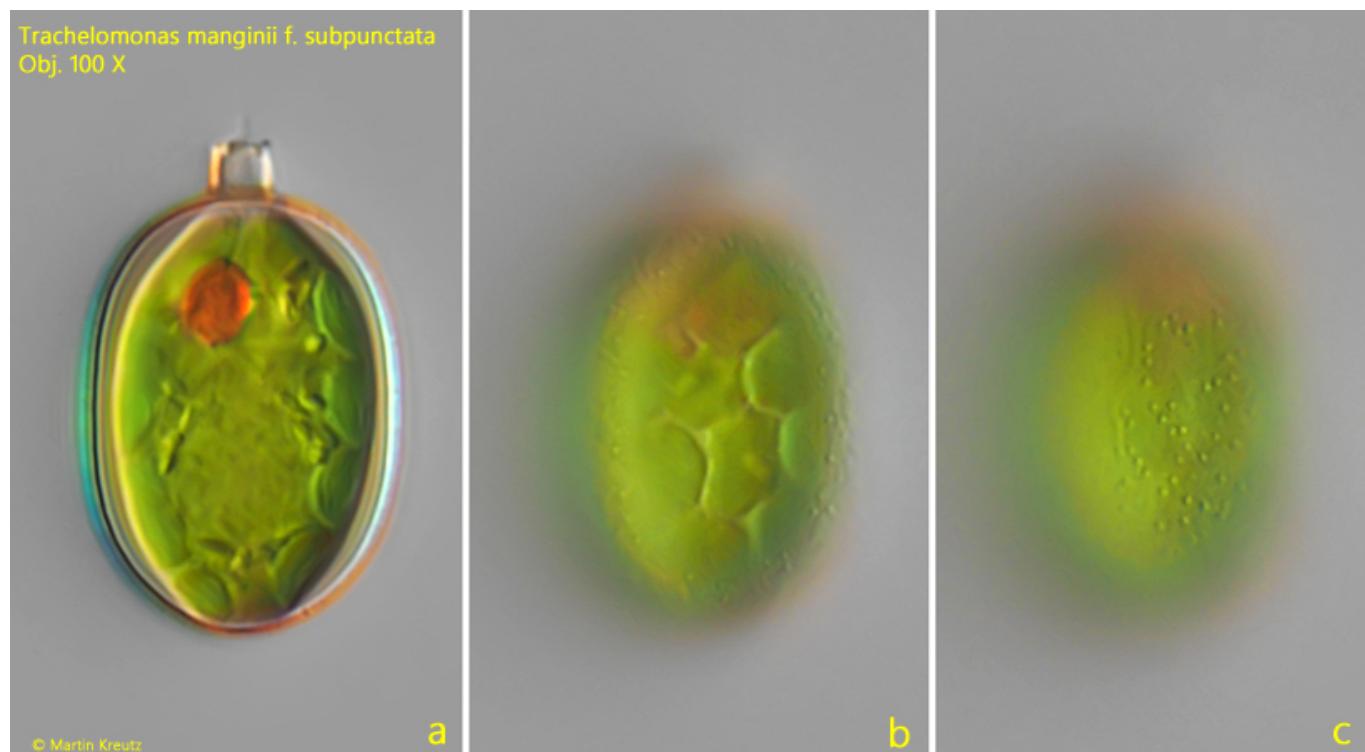


Fig. 1 a-c: *Trachelomonas manginii* f. *subpunctata*. L = 28 μm (with neck). Three

focal planes of a freely swimming specimen. Note the dottet surface of the lorica (c). Obj. 100 X.

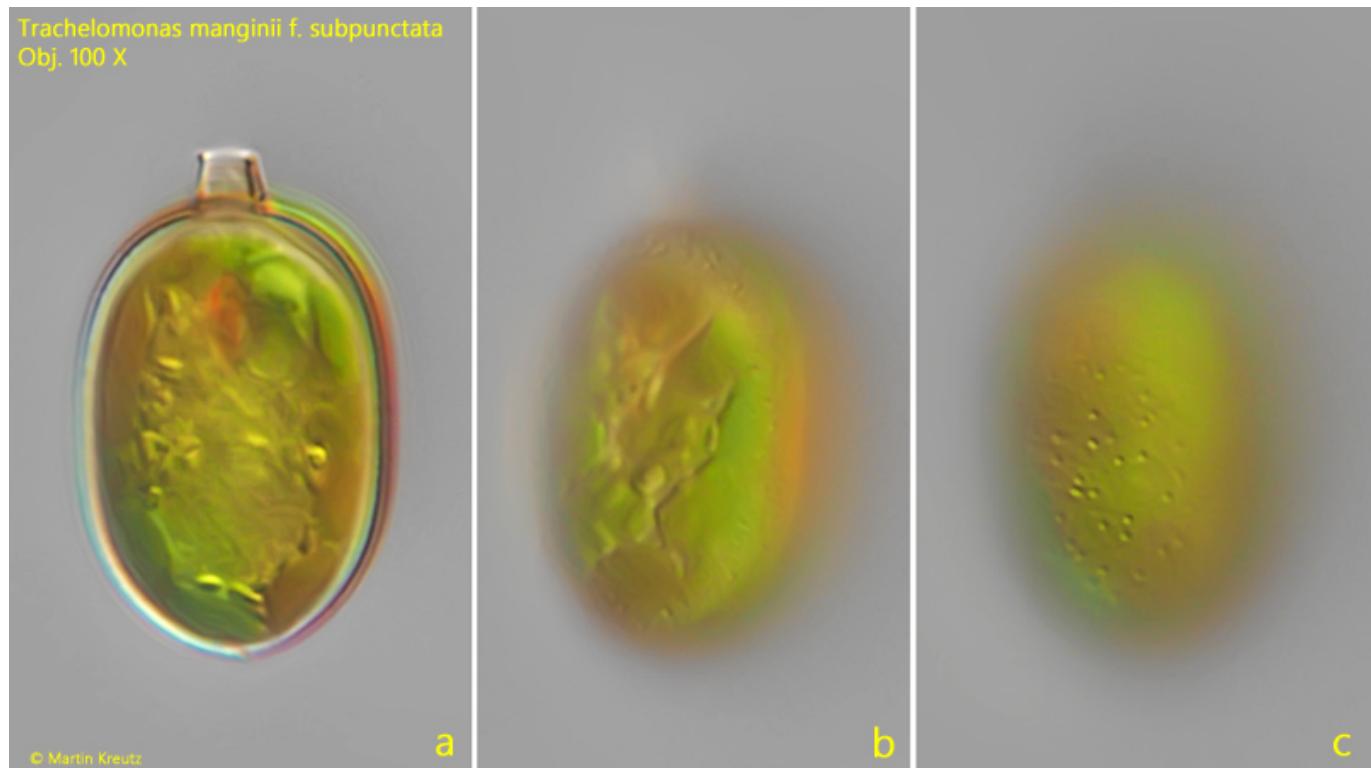


Fig. 2 a-c: *Trachelomonas manginii* f. *subpunctata*. L = 30 μ m (with neck). A second, freely swimming specimen. Obj. 100 X.

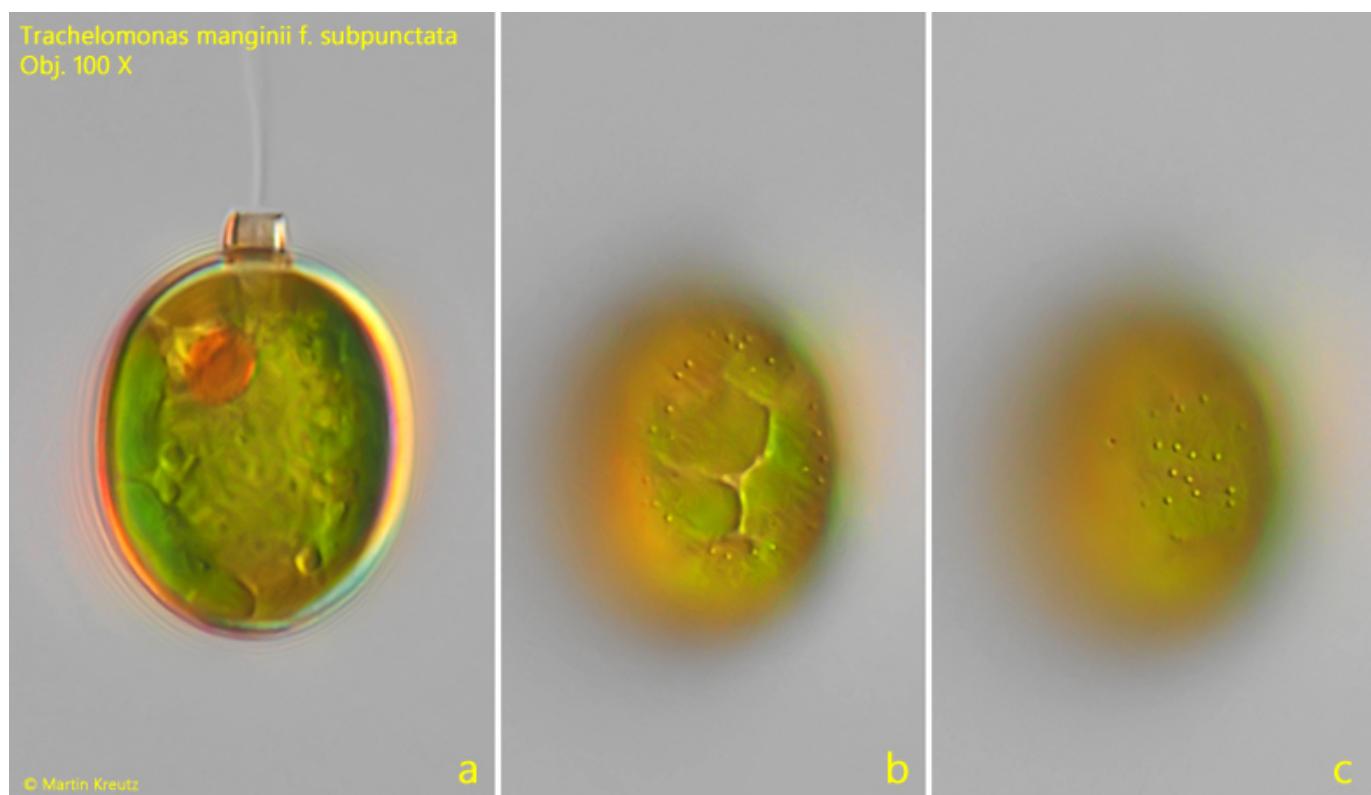


Fig. 3 a-c: *Trachelomonas manginii* f. *subpunctata*. L = 27 μ m (with neck). Three

focal planes of a third specimen. Obj. 100 X.