## Trachelomonas manginii f. subpunctata

## Safonova, 1963

Most likely ID: n.a.

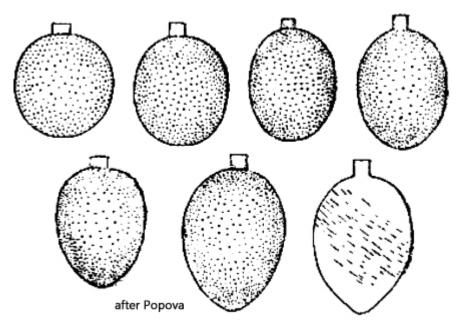
Synonym: n.a.

**Sampling location:** Simmelried

Phylogenetic tree: <u>Trachelomonas manginii f. subpunctata</u>

## **Diagnosis:**

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

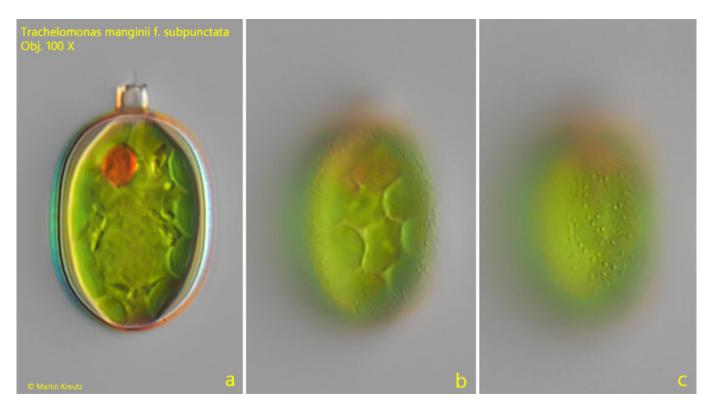


Trachelomonas manginii f. subpunctata

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 punctation, 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 punctation but is otherwise identical.

The similar species *Trachelomonas planctonica* 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  $\mu m$ . In my specimens, the neck was 3.6-4.2  $\mu m$ 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 punctation. These features indicate Trachelomonas manginii f. subpunctata.



**Fig. 1 a-c:** *Trachelomonas manginii* f. *subpunctata*.  $L = 28 \mu m$  (with neck). Three focal planes of a freely swimming specimen. Note the dottet surface of the lorica (c). Obj. 100 X.

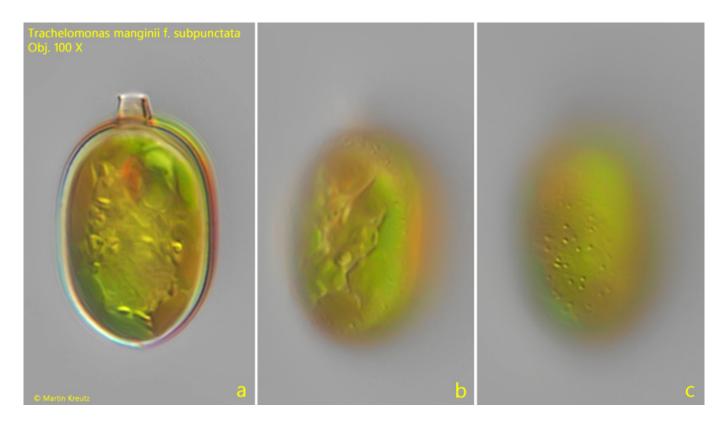


Fig. 2 a-c: Trachelomonas manginii f. subpunctata.  $L = 30 \mu m$  (with neck). A second, freely swimming specimen. Obj. 100 X.

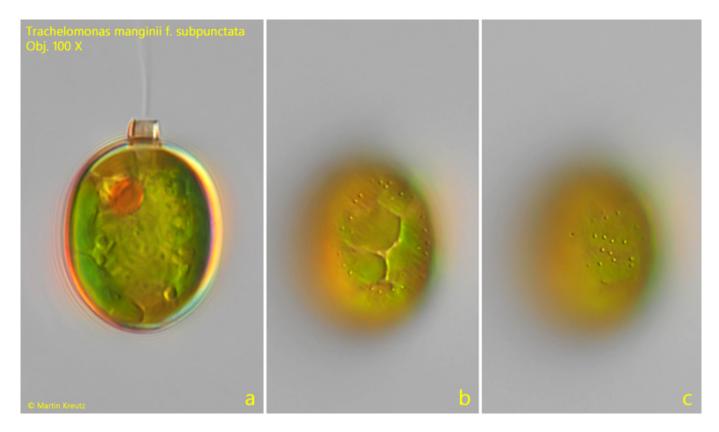


Fig. 3 a-c: Trachelomonas manginii f. subpunctata.  $L=27~\mu m$  (with neck). Three focal planes of a third specimen. Obj.  $100\ \mathrm{X}.$