

***Petalomonas steinii* Klebs, 1893**

Most likely ID: n.a.

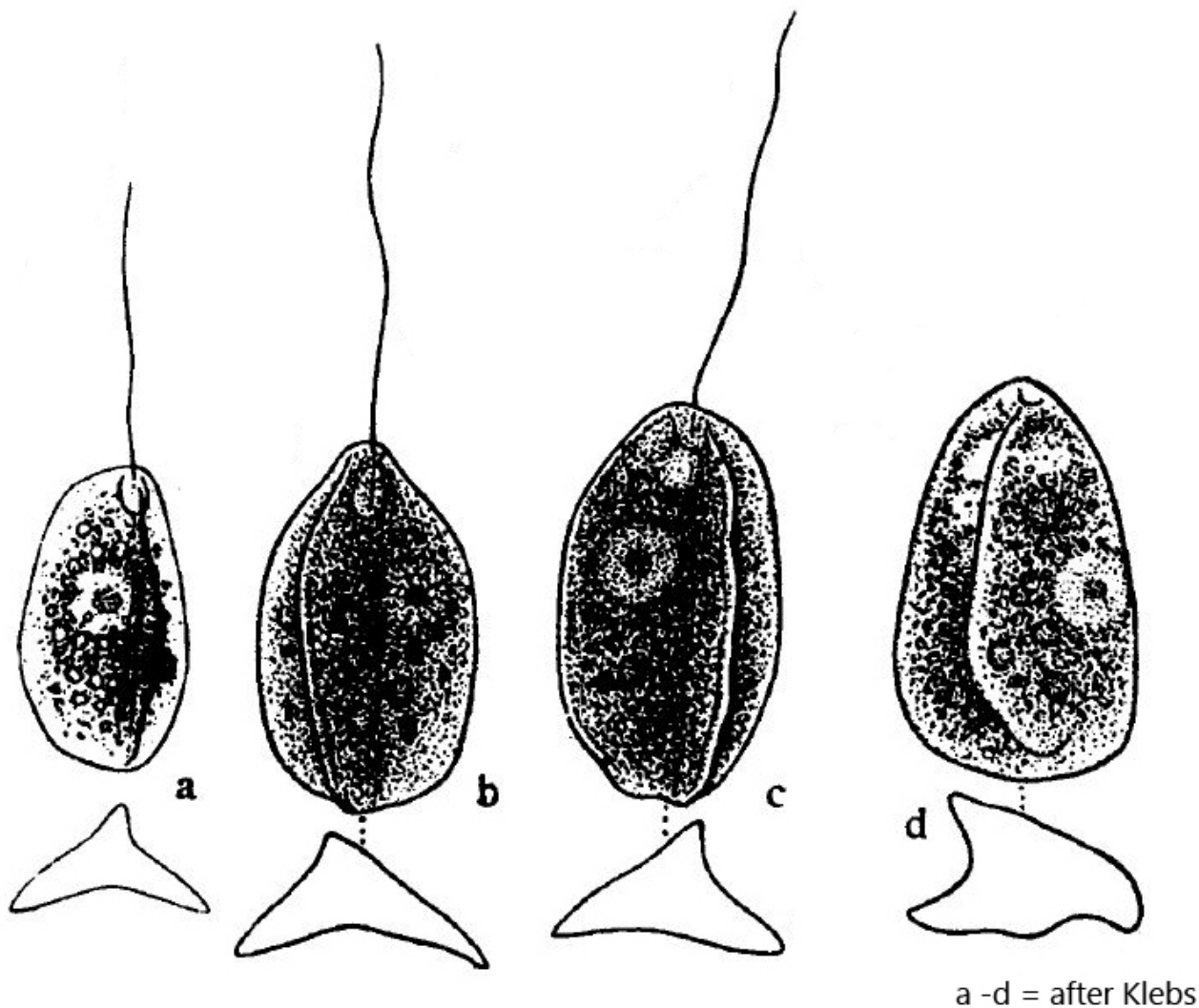
Synonym: n.a.

Sampling location: [Simmelried](#)

Phylogenetic tree: [Petalomonas steinii](#)

Diagnosis:

- length 38–42 μm , width 22–36 μm , thickness 10–16 μm
- body ovoid to triangular
- dorso-ventrally flattened
- one flagellum
- one dorsal keel
- triangular in cross section
- periplast with delicate longitudinal striation
- ventral side flat or concave



Petalomonas steinii

I found this specimen of *Petalomonas steinii* in 2008 in Simmelried. The specimen is 70 µm long and 45 µm wide. Thus it is much larger than given by Lemmermann (L 35 - 42 X W 22 µm) and Skuja (L 27-36 X W 12 -22 µm). Nevertheless I believe that *Petalomonas steinii* is present here. This I conclude from the presence of only one flagellum, the keel which runs dorsally and the rounded, triangular shape, which was described as a shape variant by Klebs (see drawing d, after Klebs). The species *Petalomonas steinii* is generally described as "strongly varying". In addition, there is no convincing alternative.

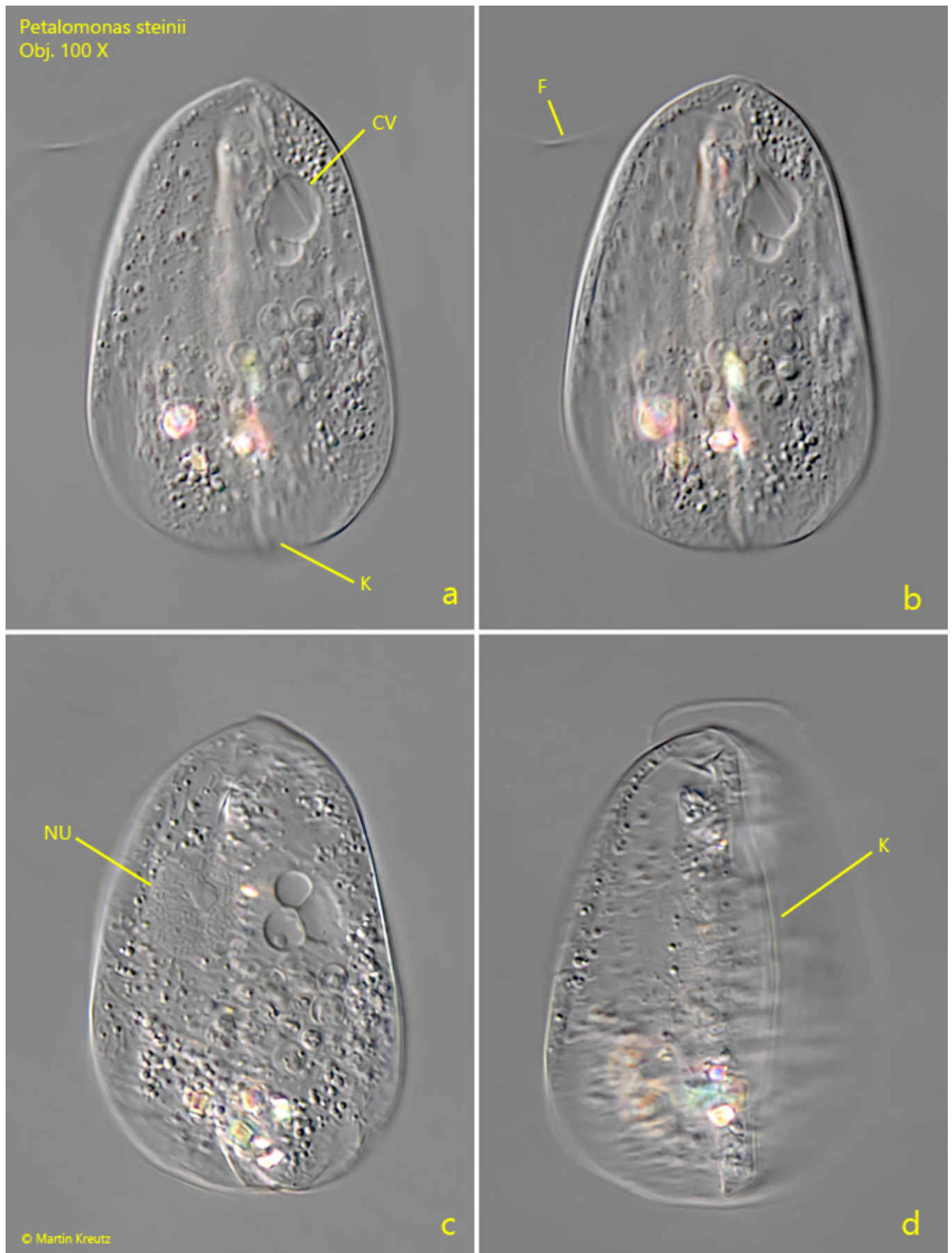


Fig. 1 a-d: *Petalomonas steinii*. L = 70 μ m. Ventral view of a slightly squashed specimen. The keel (K) on the dorsal side is only blurred (due to focussing through

the cell). CV = contractile vacuole, F = flagellum, NU = nucleus. 100 X.