Petalomonas steinii Klebs, 1893

Most likely ID: n.a.

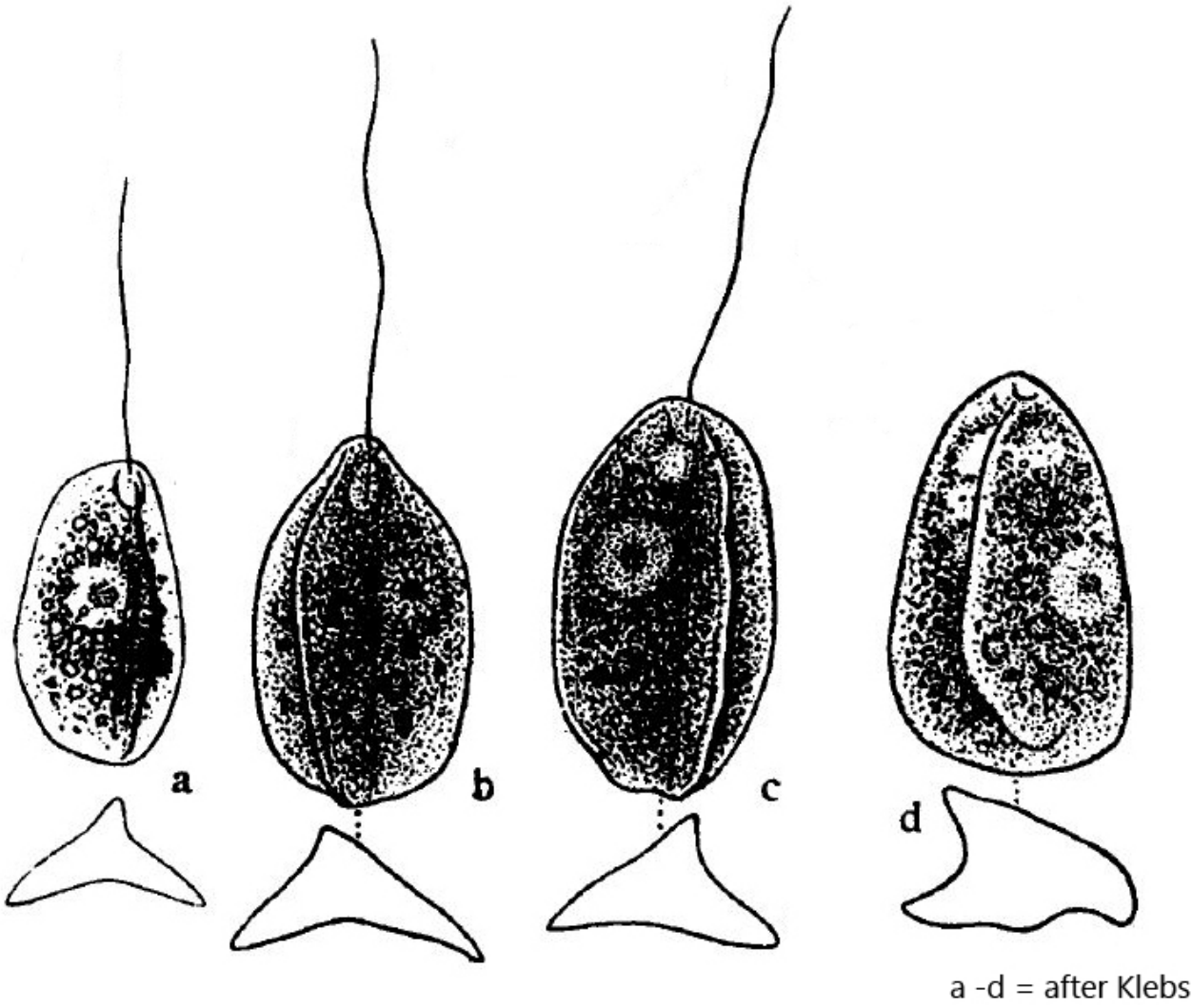
Synonym: n.a.

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 lingitudinal 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.

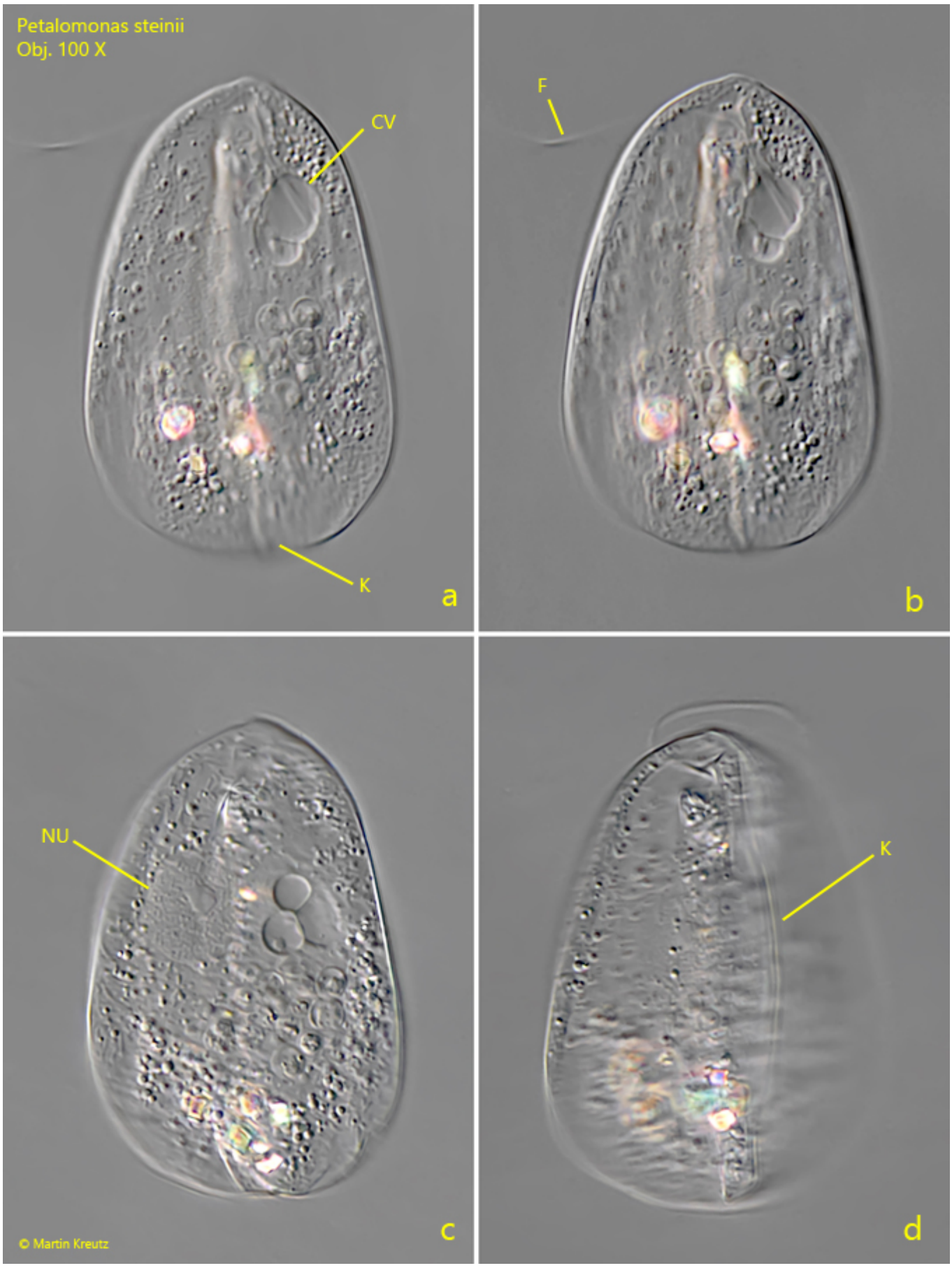


Fig. 1 a-d: *Petalomonas steinii*. L = 70 µm. Ventral view of a slightly squashed specimen. The keel (K) on the dorsal side is only blurred (due to focussing through the cell). CV =

contractile vacuole, F = flagellum, NU = nucleus. 100 X.