

Ploeotia pusilla
(Stokes) Kubín & Jurán, 2024

Most likely ID: n.a.

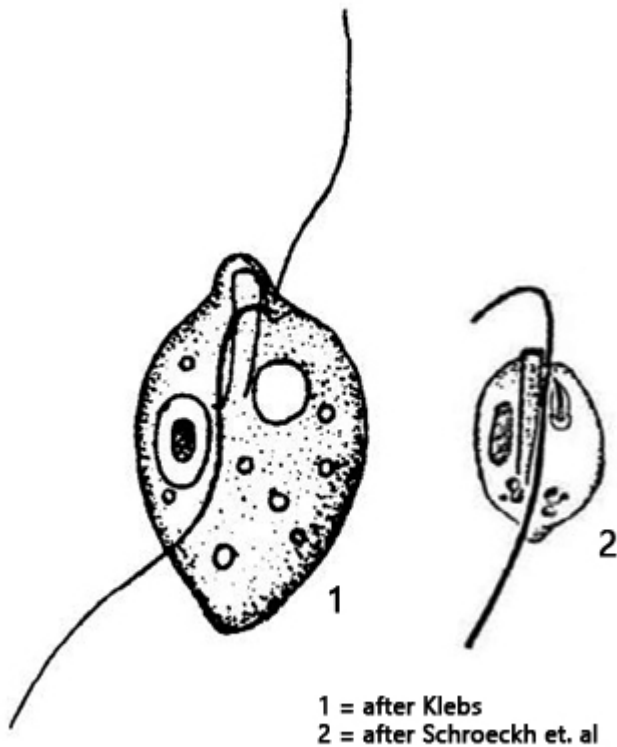
Synonym: *Entosiphon obliquus*, *Entosiphon obliquum*, *Ploeotia obliqua*

Sampling location: [Simmelried](#)

Phylogenetic tree: [Ploeotia pusilla](#)

Diagnosis:

- cells obovate or lemon-shaped, apically obliquely truncated
- ventral side with short apical incision
- length about 15 µm, width about 7.5 µm
- ingestion apparatus a conical tube, reach mid-body
- two flagella of unequal length
- nucleus mid-body, shifted laterally
- contractile vacuole anterior third
- pellicle with a wide, longitudinal striation



Ploeotia pusilla

So far I have only found *Ploeotia pusilla* in the [Simmelried](#). In fresh samples, *Ploeotia pusilla* is hard to recognize due to its small size, but the species likes to settle on the [floating coverslip](#) and is then easy to observe.

The species *Entosiphon obliquus* (syn. *Entosiphon obliquum*) was transferred to the genus *Ploeotia* as *Ploeotia obliqua* by Schroeckh et al. in 2003. It was then renamed to *Ploeotia pusilla* by Kubín & Jurán in 2024.

The genus *Ploeotia* differs from the genus *Entosiphon* in the ultrastructural structure of the tube-shaped ingestion apparatus and the structure of the pellicle. Under the light microscope, only the structure of the pellicle can be recognized, which in *Ploeotia pusilla* consists of a wide longitudinal striation (s. figs. 1 c and 4 c).

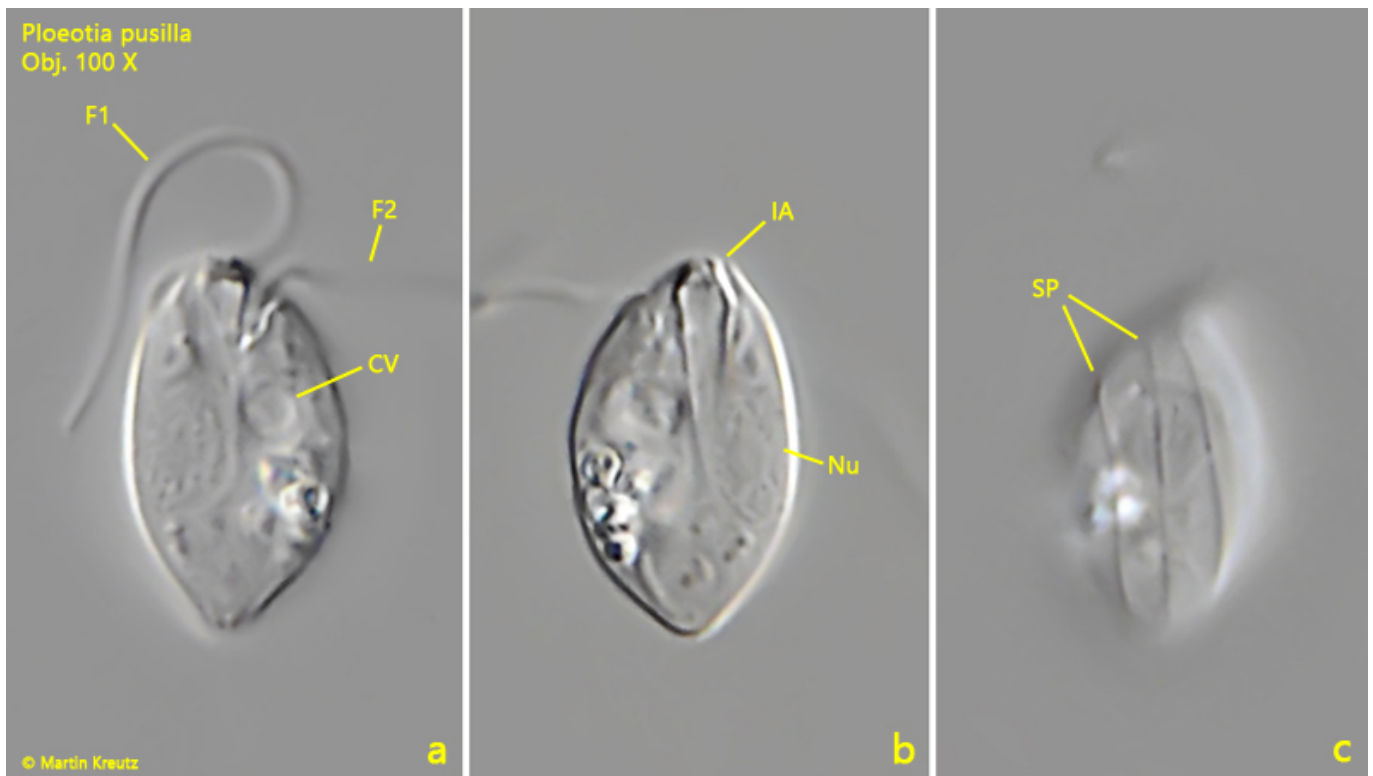


Fig. 1 a-c: *Ploetia pusilla*. L = 12.5 μ m. A freely swimming specimen from ventral (a) and dorsal (b, c). Note the wide striation of the pellicle (SP). F1, F2 = flagella, CV = contractile vacuole, IA = tube shaped ingestion apparatus, Nu = nucleus. Obj. 100 X.

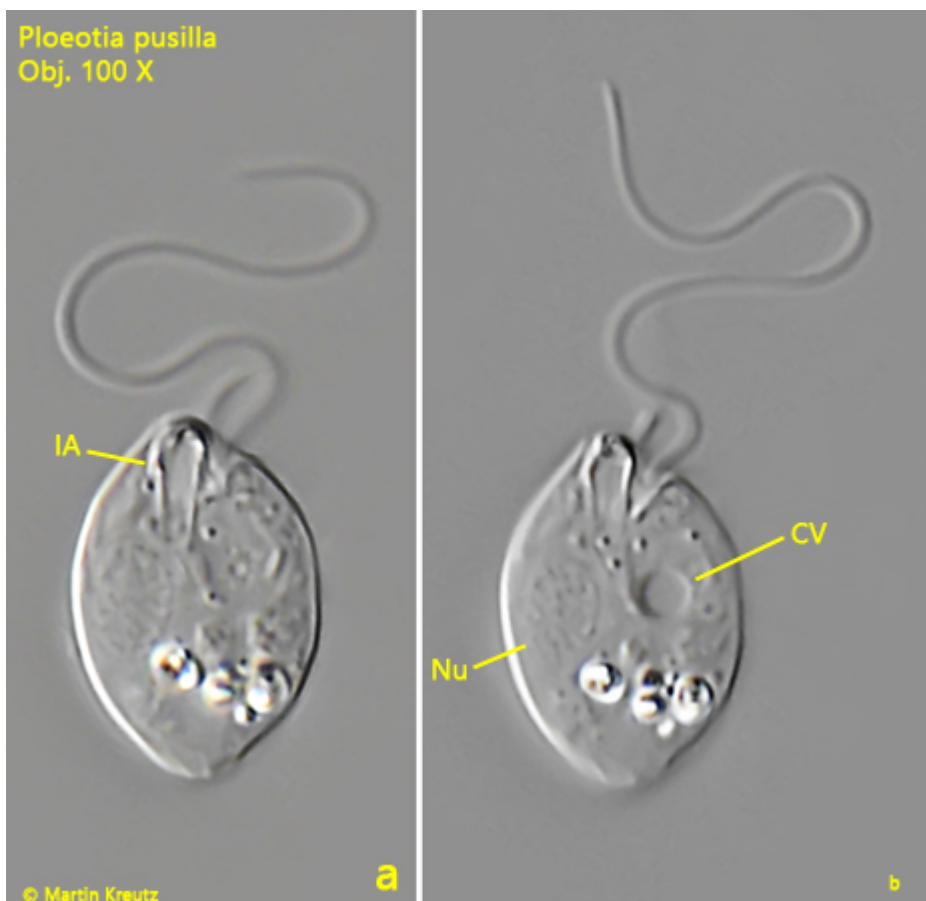


Fig. 2 a-b: *Ploeotia pusilla*. L = 12.5 μm . The slightly squashed specimen as shown in fig. 1 a-c. CV = contractile vacuole, IA = tube shaped ingestion apparatus, Nu = nucleus. Obj. 100 X.

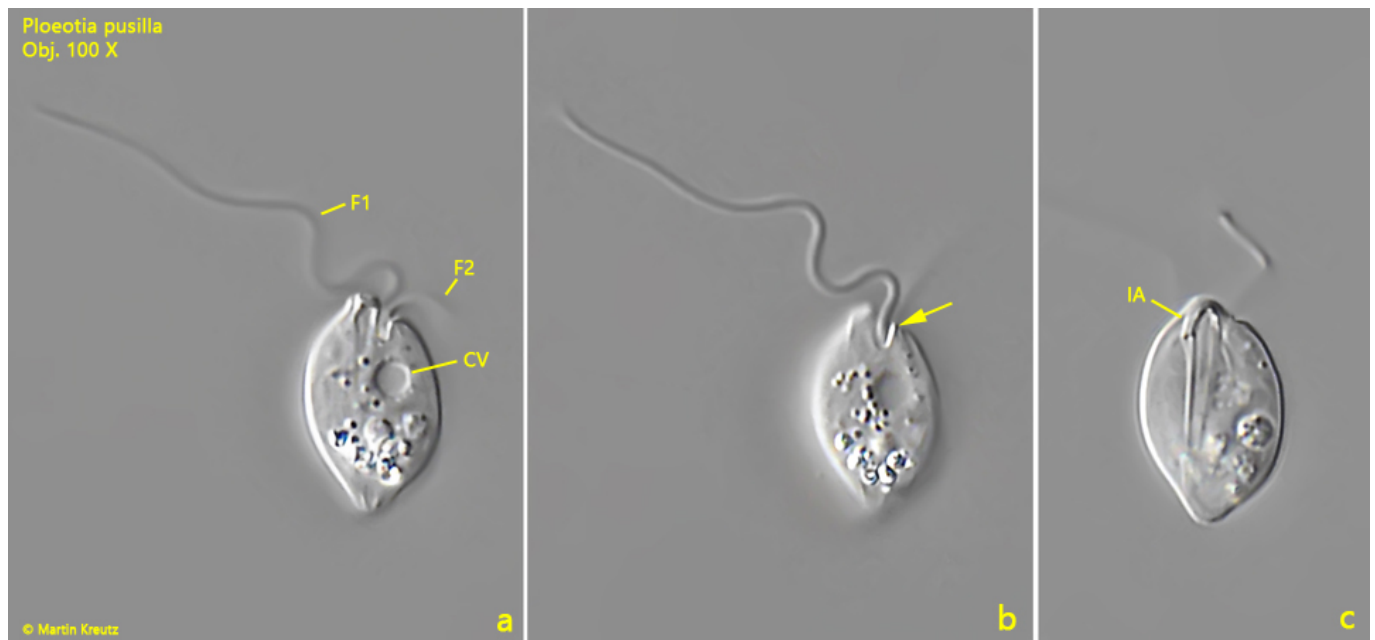


Fig. 3 a-c: *Ploeotia pusilla*. L = 13 μm . A second freely swimming specimen. Not the short, ventral incision (arrow). F1, F2 = flagella, CV = contractile vacuole, IA = tube shaped ingestion apparatus. Obj. 100 X.

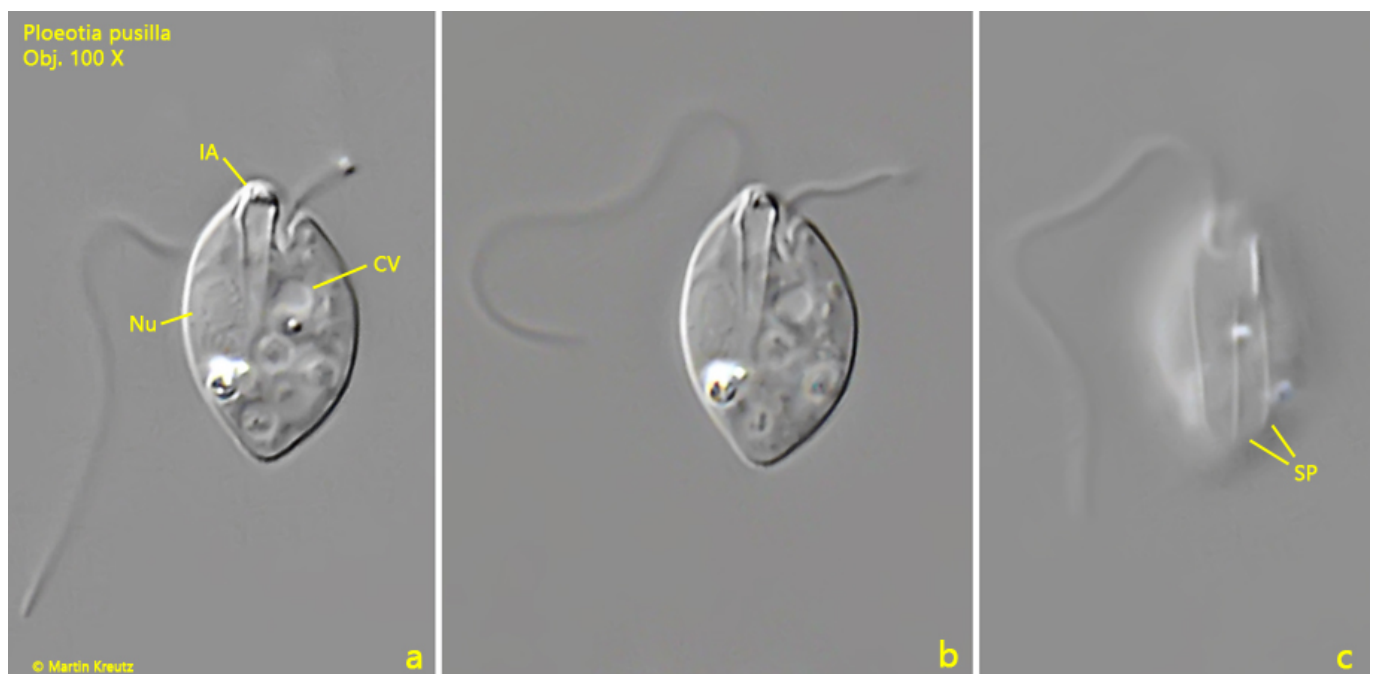


Fig. 4 a-c: *Ploeotia pusilla*. L = 13 μm . A third, freely swimming specimen from ventral. CV = contractile vacuole, IA = tube shaped ingestion apparatus, Nu = nucleus, SP = striation of the pellicle. Obj. 100 X.