

Pseudovorticella chlamydophora

(Penard, 1922) Jankowski, 1976

Most likely ID: n.a.

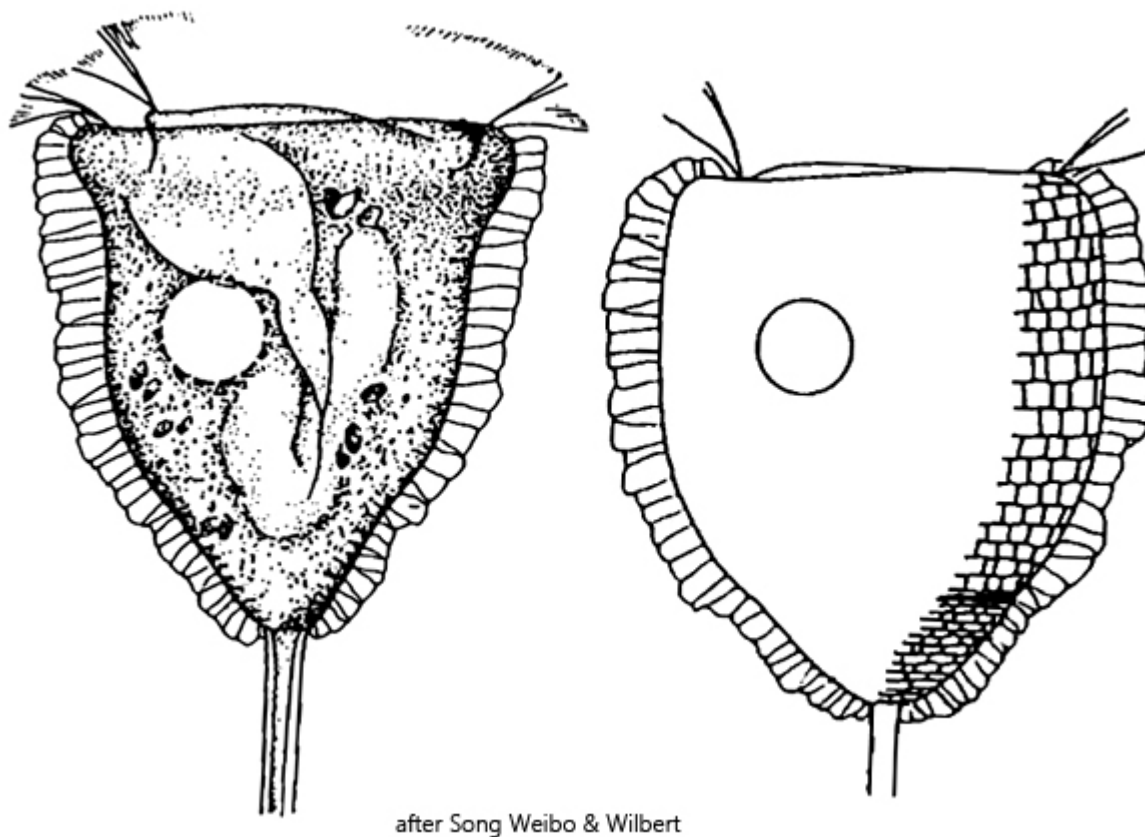
Synonym: n.a.

Sampling location: [Pond of the waste disposal company Constance](#)

Phylogenetic tree: [Pseudovorticella chlamydophora](#)

Diagnosis:

- body bell-shaped
- eristomal collar 90 µm diameter
- length 40–80 µm, width 35–65 µm
- contracted cells egg-shaped
- body covered by blisters in a reticulate pattern
- layer auf blisters up to 7 µm thick
- one contractile vacuole near center
- macronucleus J-shaped
- stalk contracts in tight spirals
- solitary or in pseudocolonies



Pseudovorticella chlamydophora

In October 2026 I found *Pseudovorticella chlamydophora* in the [pond of the waste disposal company Constance](#). The pond is strongly eutrophic. A stand of Yellow Water-lily (*Nuphar lutea*) also grows there. I placed the leaves and stems of the Water-Lily in Petri dishes and laid [floating coverslips](#) on them. On some of these coverslips I was able to find pseudocolonies of *Pseudovorticella chlamydophora* after 2 days.

Pseudovorticella chlamydophora is a rather rare species and there are only a few records of findings. The species is very easy to recognize by the thick layer of blisters, which completely and seamlessly covers the entire surface of the zooids. These form a honeycomb-like pattern (s. figs. 3 a-b and 4). In my population the layer of blisters was 3–4 μm thick (s. fig. 3 a). Another important characteristic is the position of the contractile vacuole. *Pseudovorticella chlamydophora* has only one contractile vacuole, and it lies approximately at the level of the cell equator (s. fig. 3 a). The macronucleus is J-shaped. I was able to detect a single, round micronucleus (s. fig. 5), which has not yet been described in the literature.

In my population the zooids had a length of 58–65 μm . The food vacuoles were mainly filled with bacteria. The contracted specimens were, in my observation, not

egg-shaped, as described by Foissner, Berger & Kohmann in 1992, but rather spherical, with the layer of blisters almost closing apically (s. fig. 2 b).

More images and information on *Pseudovorticella chlamydophora*: [Michael Plewka-Freshwater life-Pseudovorticella chlamydophora](#)

Pseudovorticella chlamydophora
Obj. 40 X



Fig. 1: *Pseudovorticella chlamydophora*. L = 59–63 μm (of zooids). Some zooids in a pseudocolony. Obj. 40 X.

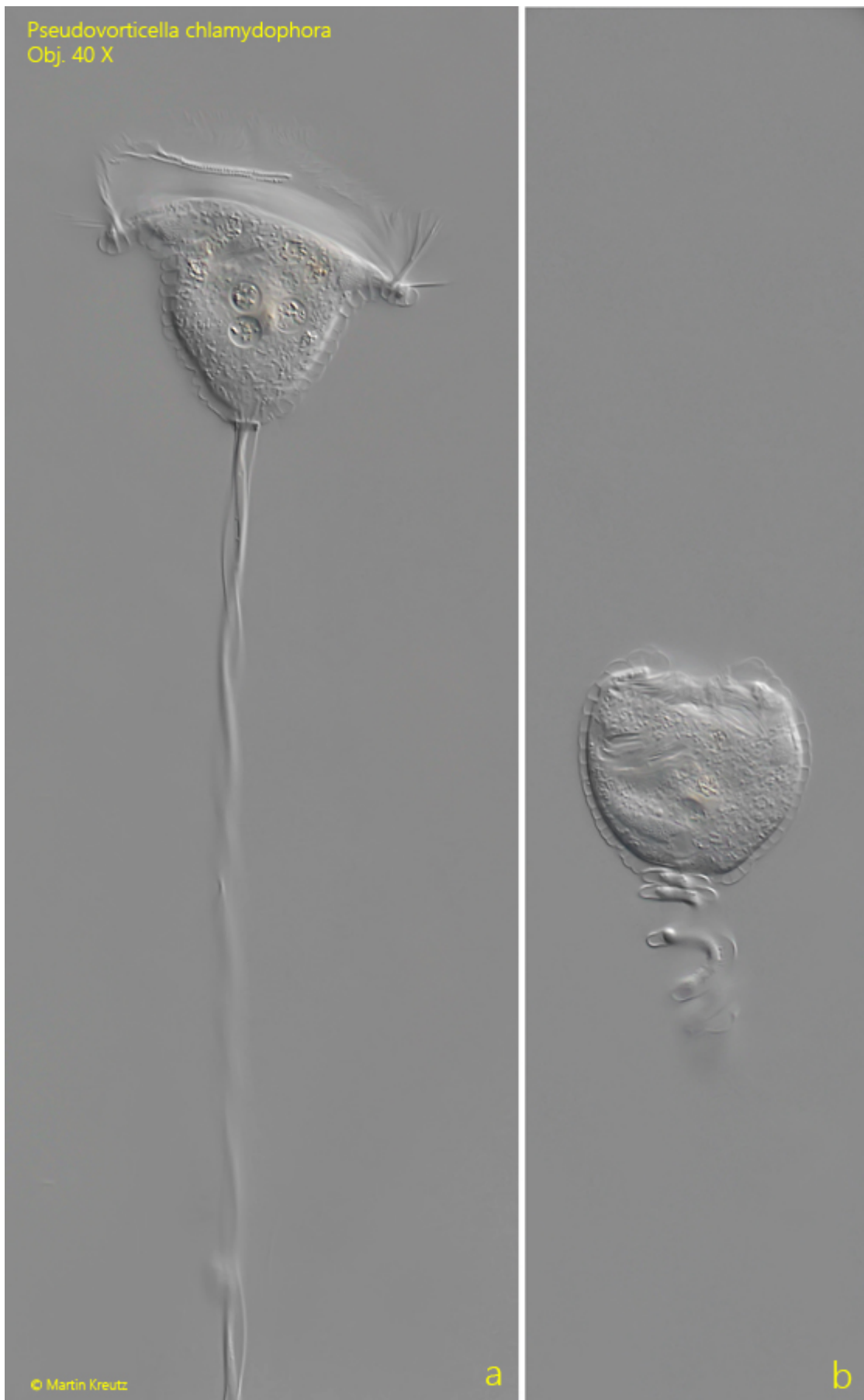


Fig. 2 a-b: *Pseudovorticella chlamydophora*. L = 60 μ m (of extended zoid). An extended (a) and contracted zoid (b). Obj. 40 X.

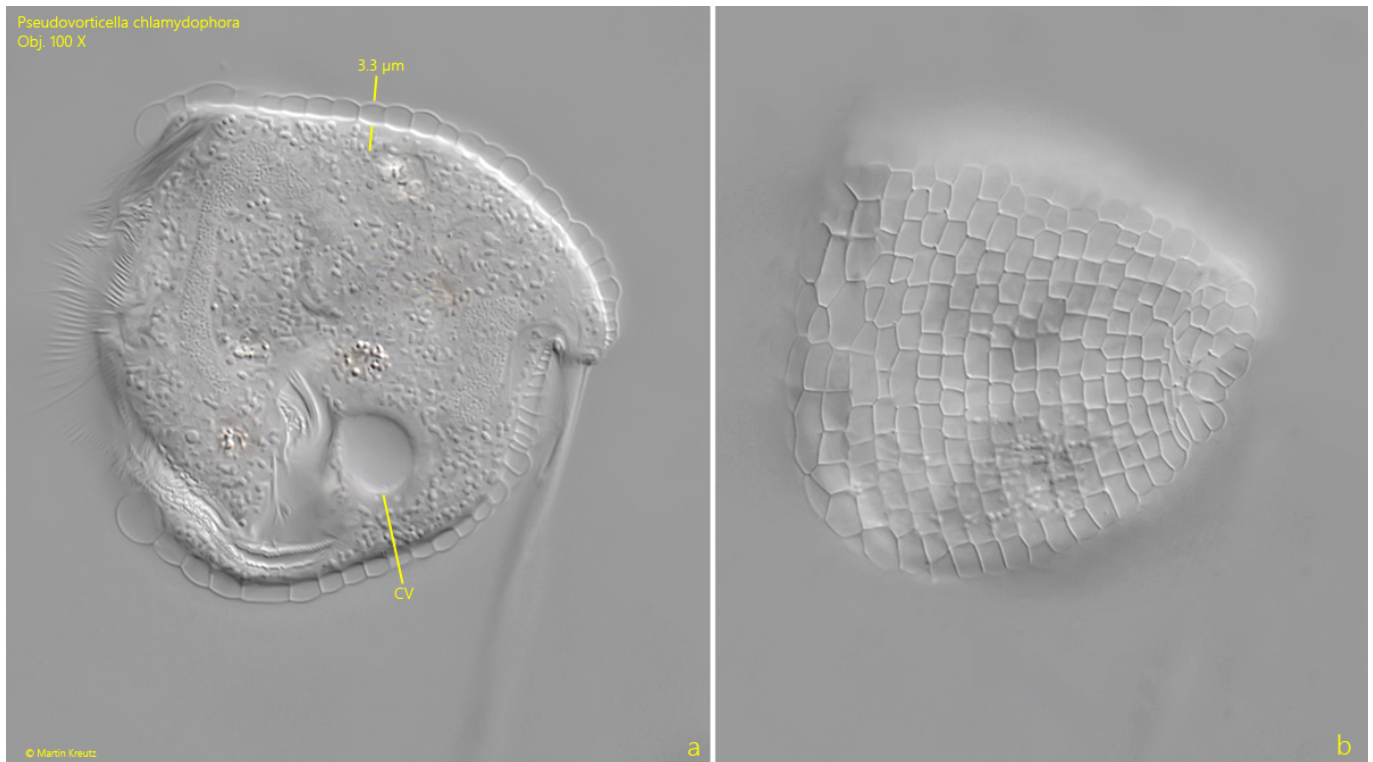


Fig. 3 a-b: *Pseudovorticella chlamydophora*. Two focal planes of a slightly squashed specimen. The cell is covered by a layer of blisters in a reticulated pattern. In this specimen the layer has a thickness of 3.3 μm. The single contractile vacuole (CV) is located near the cell equator. Obj. 100 X.

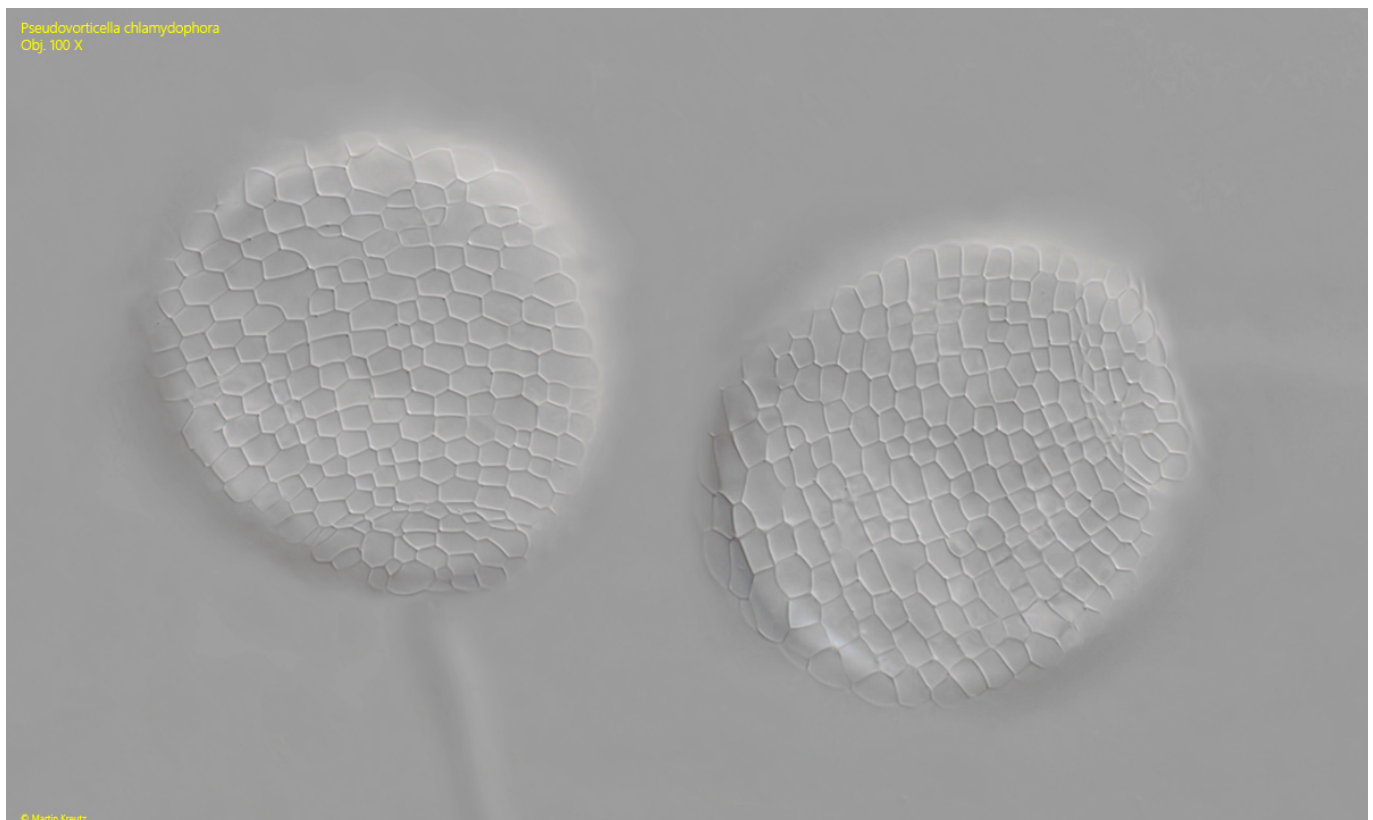


Fig. 4: *Pseudovorticella chlamydophora*. Focal plane of the reticulate pattern of the blisters in two slightly squashed zooids. Obj. 100 X.

Pseudovorticella chlamydophora
Obj. 100 X



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Fig. 5: *Pseudovorticella chlamydophora*. The J-shaped macronucleus and the spherical micronucleus (Mi) in a squashed specimen. CV = contractile vacuole. Obj. 100 X.