

Pseudovorticella monilata

(Tatem 1870) Foissner & Schiffmann 1974

Most likely ID: n.a.

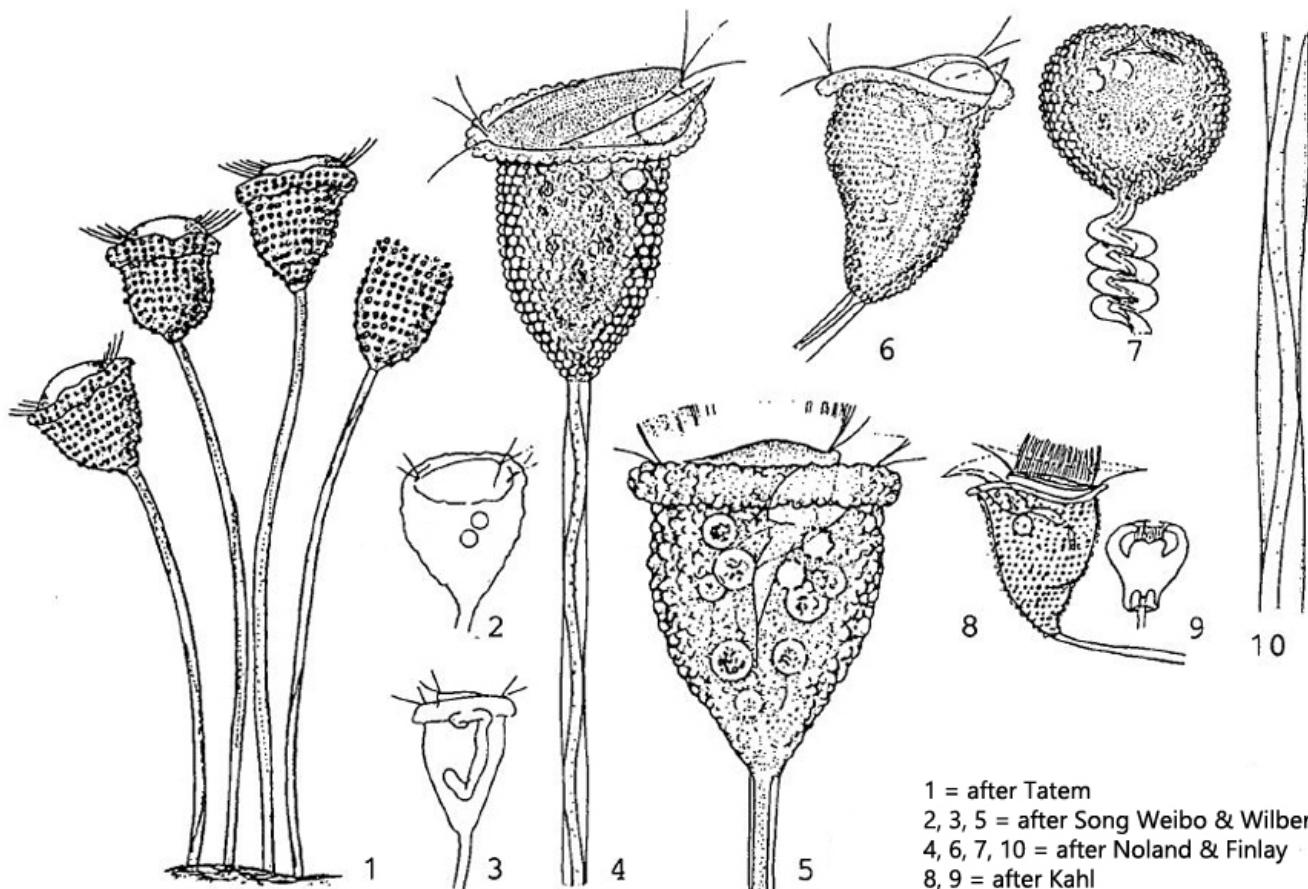
Synonym: n.a.

Sampling location: [Simmelried](#)

Phylogenetic tree: [*Pseudovorticella monilata*](#)

Diagnosis:

- length 40–80 µm, width 35–60 µm
- cells bell-shaped
- contracted cells almost spherical
- 2 contractile vacuoles
- macronucleus J-shaped
- pellicle covered with blister-shaped pellicular tubercles
- tubercles of different size, often containing an oily droplet
- spirally contractile stalk
- forming pseudocolonies



1 = after Tatem
 2, 3, 5 = after Song Weibo & Wilbert
 4, 6, 7, 10 = after Noland & Finlay
 8, 9 = after Kahl

Pseudovorticella monilata

I found pseudocolonies of *Pseudovorticella monilata* 2022 in old samples from [Simmelried](#). These pseudocolonies of 50–100 zooids were found on small detritus flakes on the vessel wall as well as on the surface. At low magnifications, *Pseudovorticella* can be confused with *Vorticella*, due to the spirally contracting stalk. Only at higher magnifications (about Obj. 40 X) do the vesicular pellicular tubercles covering the surface of the zooids become visible. These pellicular tubercles form the major distinguishing feature between the genera *Vorticella* and *Pseudovorticella*. The pellicle of species of the genus *Vorticella* is usually finely striate, without vesicular tubercles. Finally, the species *Pseudovorticella monilata* is distinguished by the presence of oil-like droplets in the pellicular tubercles, the presence of two contractile vacuoles and the J-shaped macronucleus.

Pseudovorticella monilata
Obj. 60 X

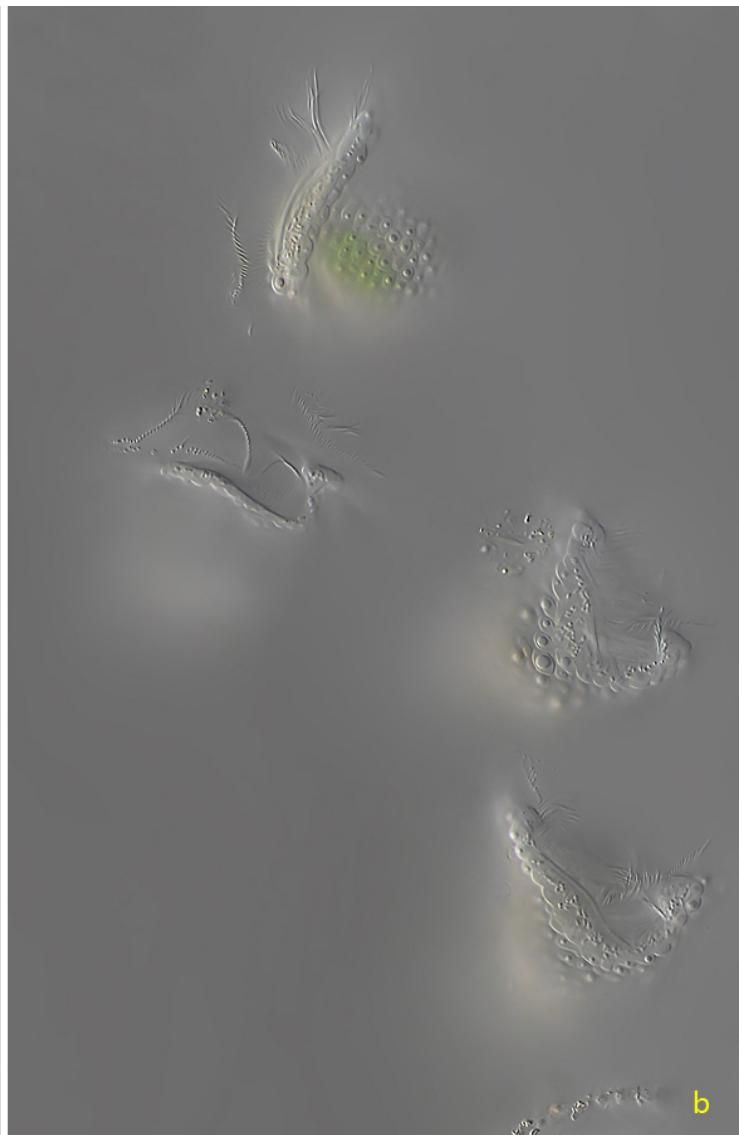
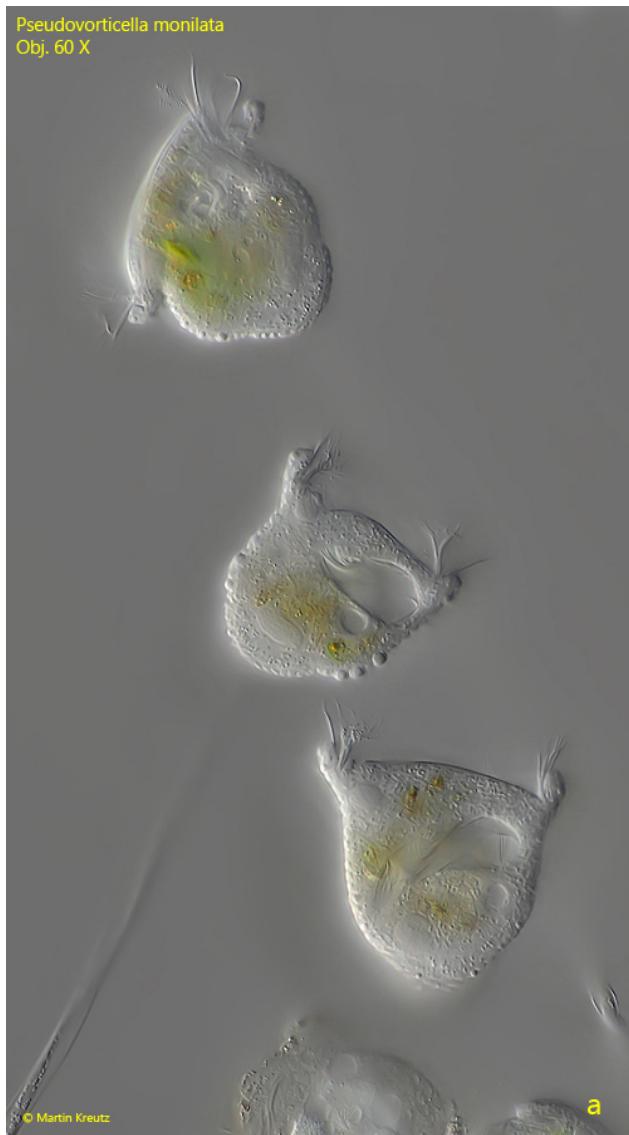


Fig. 1 a-b: *Pseudovorticella monilata*. L = 53-61 μ m. Freely moving specimens of a pseudocolony in two focal planes. Obj. 60 X.

Pseudovorticella monilata
Obj. 100 X



Fig. 2: *Pseudovorticella monilata*. L = 56 µm. Freely moving specimens of a pseudocolony. In lateral view the blister-shaped pellicular tubercles (PT) are visible, covering the zooids. Obj. 100 X.

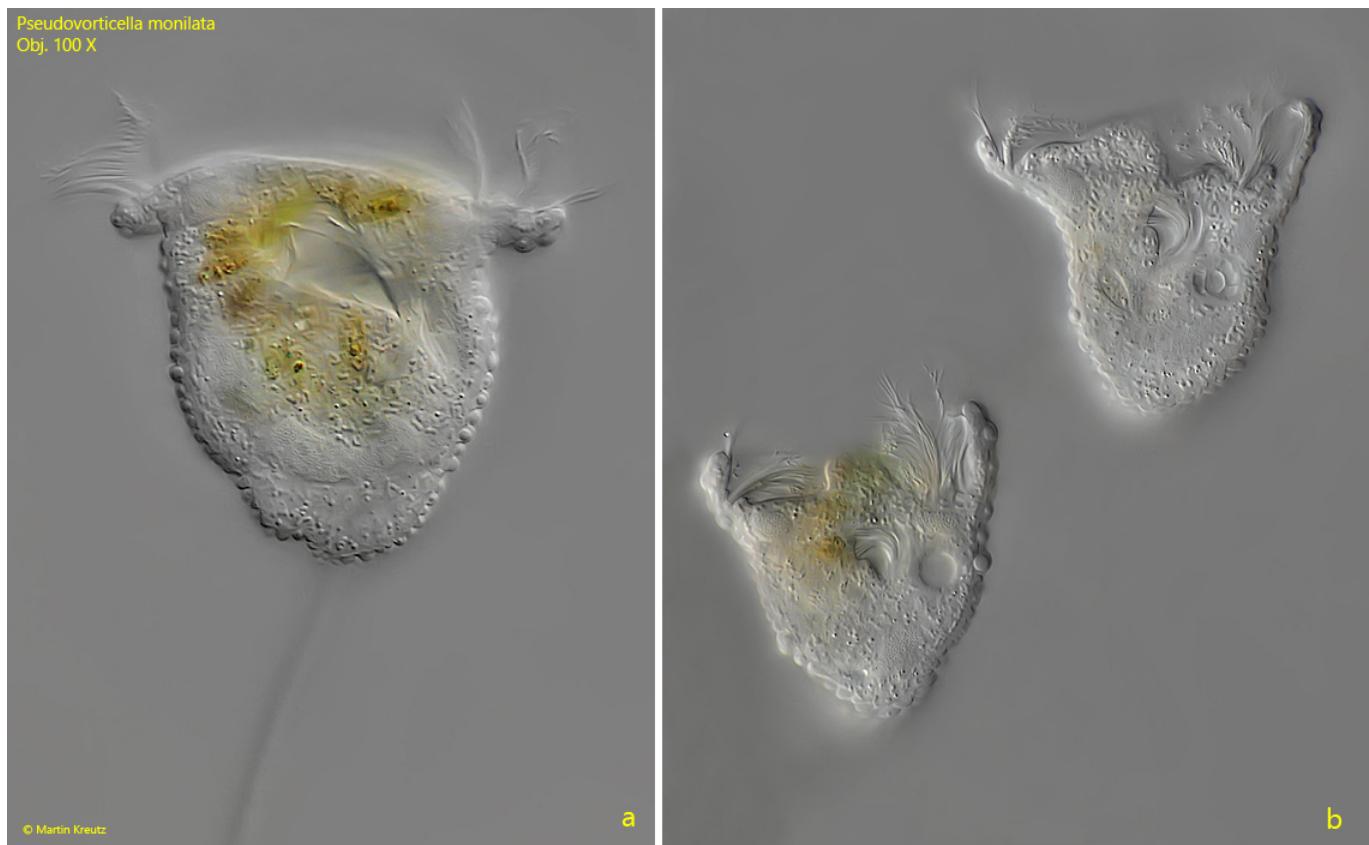


Fig. 3 a-b: *Pseudovorticella monilata*. L = 52-61 μ m. Freely moving zooids in detail. Obj. 100 X.

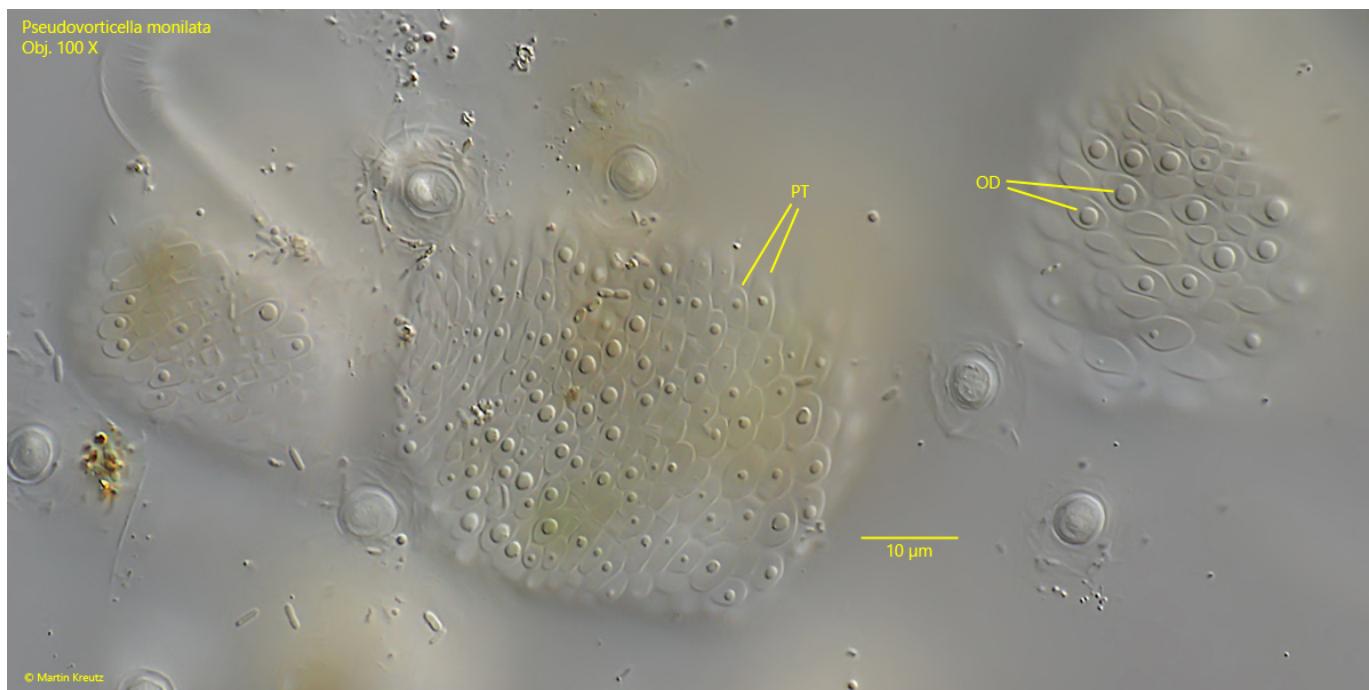


Fig. 4: *Pseudovorticella monilata*. The blister-shaped pellicular tubercles (PT) in a squashed specimen. The tubercles often contain a drop of an oily liquid (OD) believed to be paraglycogen. Obj. 100 X.



Fig. 5: *Pseudovorticella monilata*. In this strongly squashed specimen the two contractile vacuoles are visible (CV 1, CV 2) and the J-shaped macronucleus (Ma). Obj. 100 X.