

Cylindriifluga bacilliarum
(Perty) González-Miguéns et al., 2022

Most likely ID: n.a.

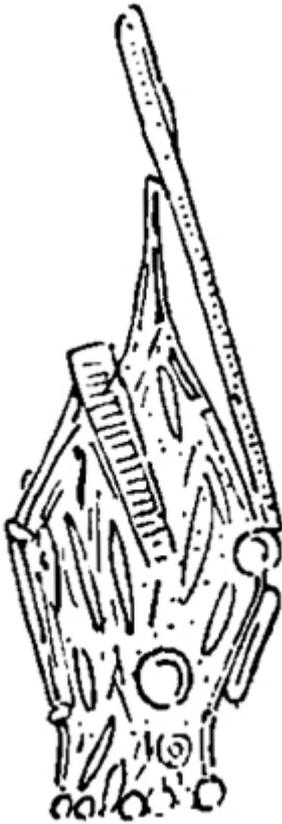
Synonym: *Diffflugia bacilliarum*

Sampling location: [Simmelried](#), [Sima Moor \(Austria\)](#)

Phylogenetic tree: [Cylindriifluga bacilliarum](#)

Diagnosis:

- shell ovoid or spherical, with a posterior spine
- shell colorless or yellowish brown, covered with siliceous scales and diatom frustules
- length 57–133 µm
- aperture of shell circular (often covered by diatom frustules)
- nucleus spherical, located posterior



after Penard

Cylindriifluga bacilliarum

So far I have only found *Cylindriifluga bacilliarum* twice. The first time in April 1997 in [Simmelried](#) and the second time in [Sima Moor \(Austria\)](#) in June 2024. Since 1997 I have not found any further specimens in the [Simmelried](#).

The shell of *Cylindriifluga bacilliarum* is completely covered with empty frustules of diatoms and it has an elongated spike at the posterior end, which makes it very characteristic. Penard (1902) considered *Cylindriifluga bacilliarum* to be a variant of *Diffugia elegans* (meanwhile *Cylindriifluga elegans* (Penard) n. comb. González-Miguéns et al., 2022), but points out that it was declared as *Diffugia bacilliarum* by Perty (1849). In fact, the two species are very similar and have often been confused in the past. However, the shell of *Cylindriifluga elegans* is not completely covered with diatom frustules, but also with a high proportion of mineral grains (s. [Ferry Siemensma - Microworld- Cylindriifluga elegans](#)). Since the specimens in my population were completely covered with diatom frustules, they must be *Cylindriifluga bacilliarum*.

More information and images on *Cylindrieffluga bacilliarum*: [Ferry Siemensma-Microworld-Cylindrieffluga bacilliarum](#)

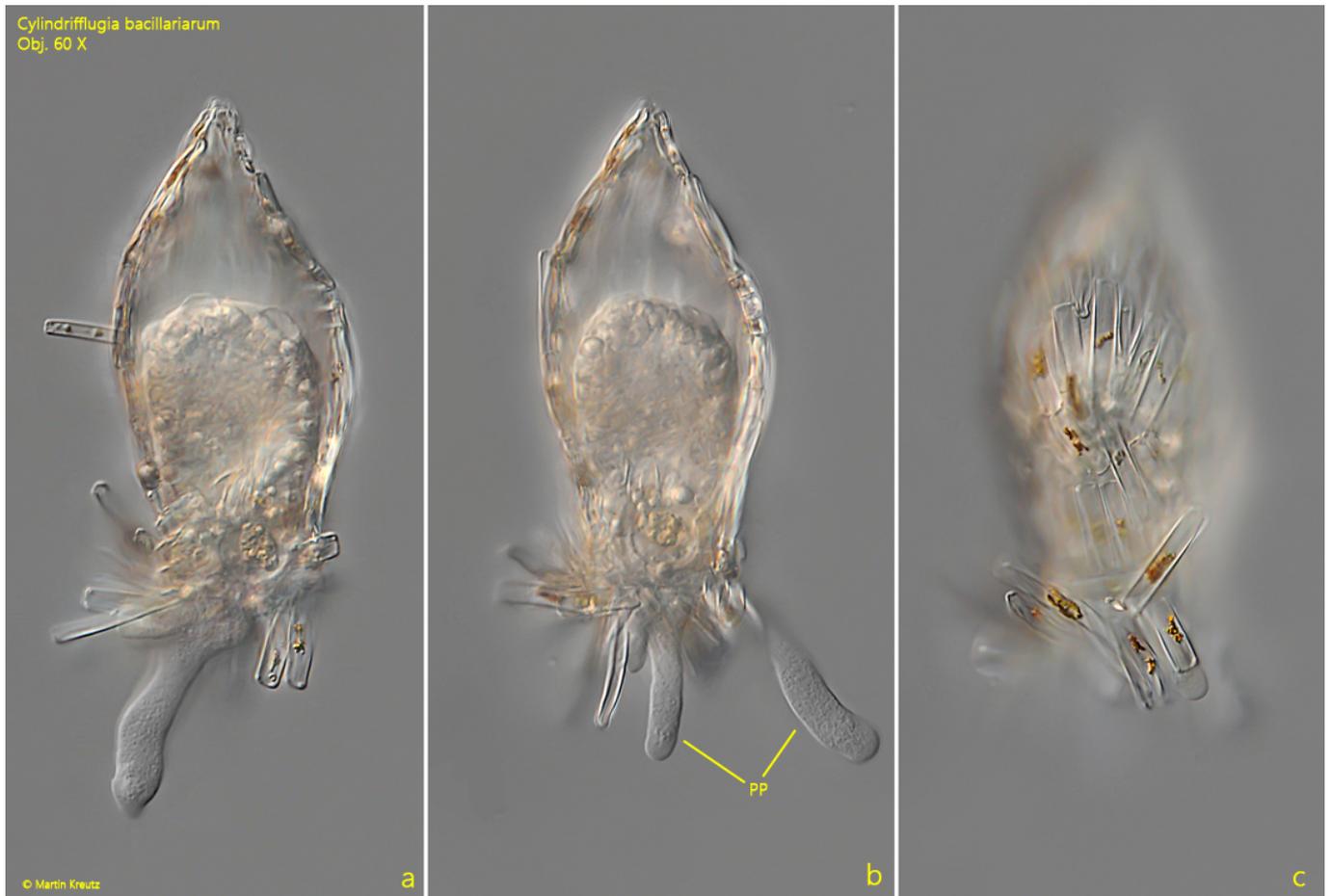


Fig. 1 a-c: *Cylindrieffluga bacilliarum*. L = 96 μ m. Three focal planes of a specimen with extended pseudopodia (PP). Diatom frustules intended for assembling in the shell or for creating a daughter shell are gathered around the cytostome. Obj. 60 X.

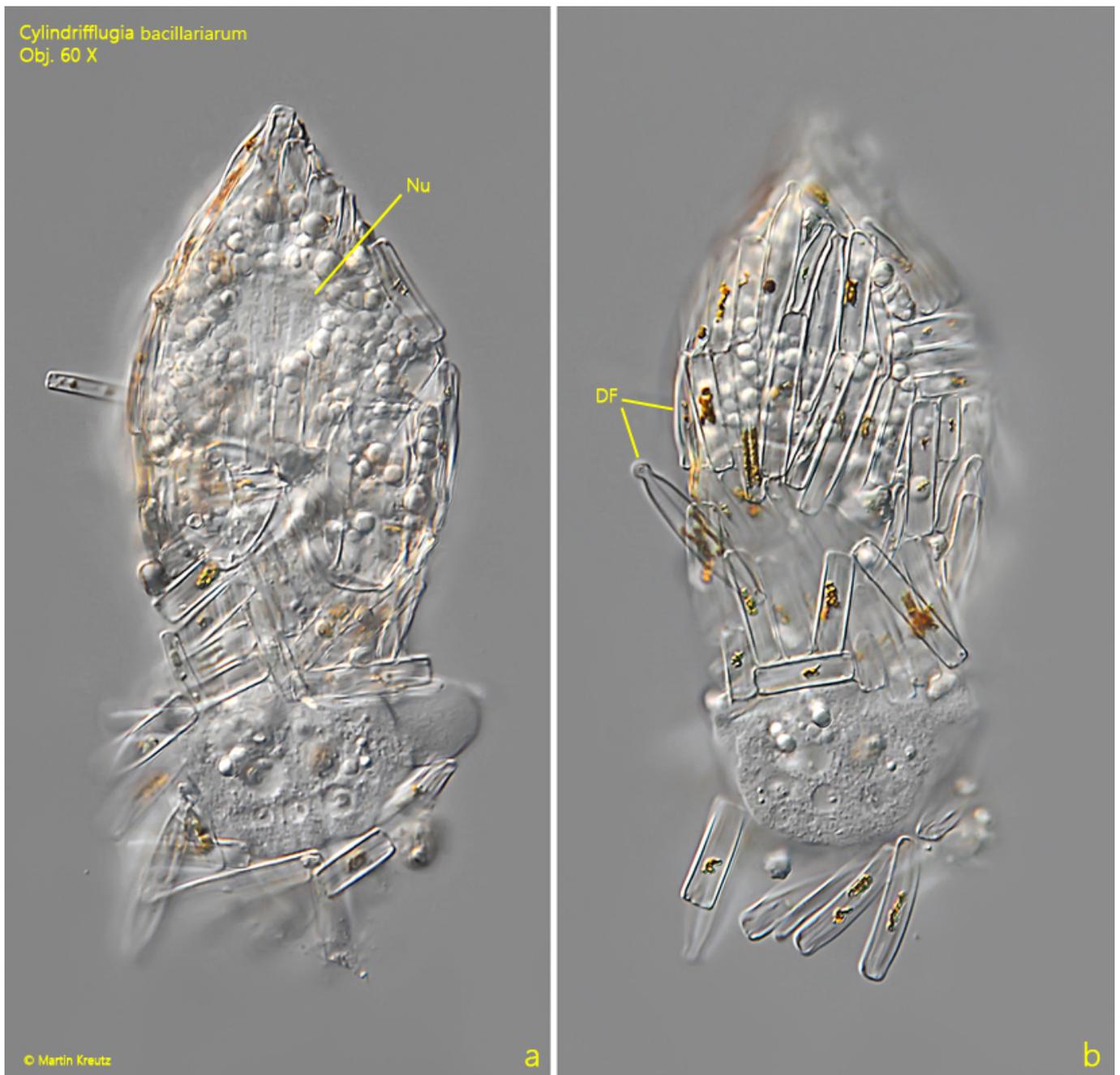


Fig. 2 a-b: *Cylindriflugia bacilliarum*. L = 96 μ m. The slightly squashed specimen as shown in fig. 1 a-c. The spherical nucleus (Nu) is located in the posterior third and the shell is exclusively covered with diatom frustules (DF). Obj. 60 X.