

***Cylindrocystis brebissonii***

**(Ralfs) De Bary, 1858**

**Most likely ID:** n.a.

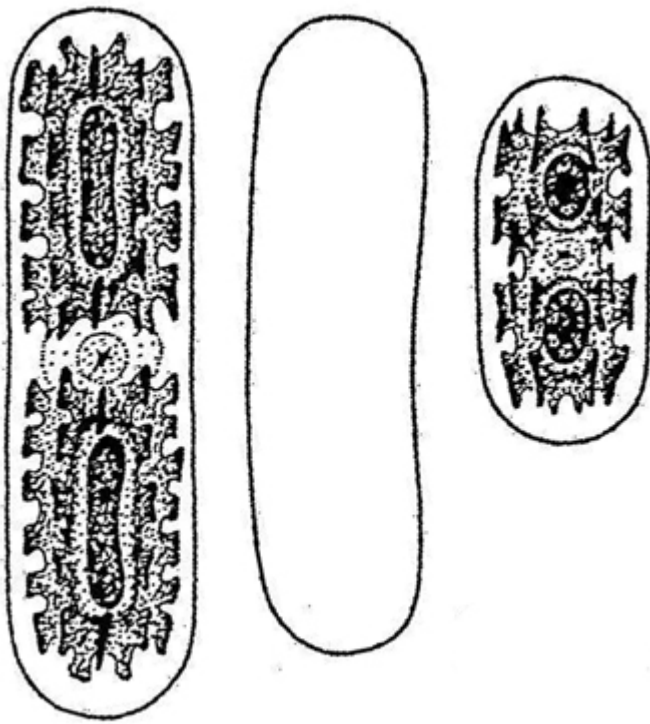
**Synonym:** n.a.

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

**Phylogenetic tree:** [Cylindrocystis brebissonii](#)

**Diagnosis:**

- cells cylindrical with rounded apices, sometimes slightly curved
- lateral sides straight and parallel
- length 35–80 µm long
- two stellate chloroplasts with each one pyrenoid
- pyrenoids spherical or elongated
- ridges of chloroplasts longitudinally
- acidophile

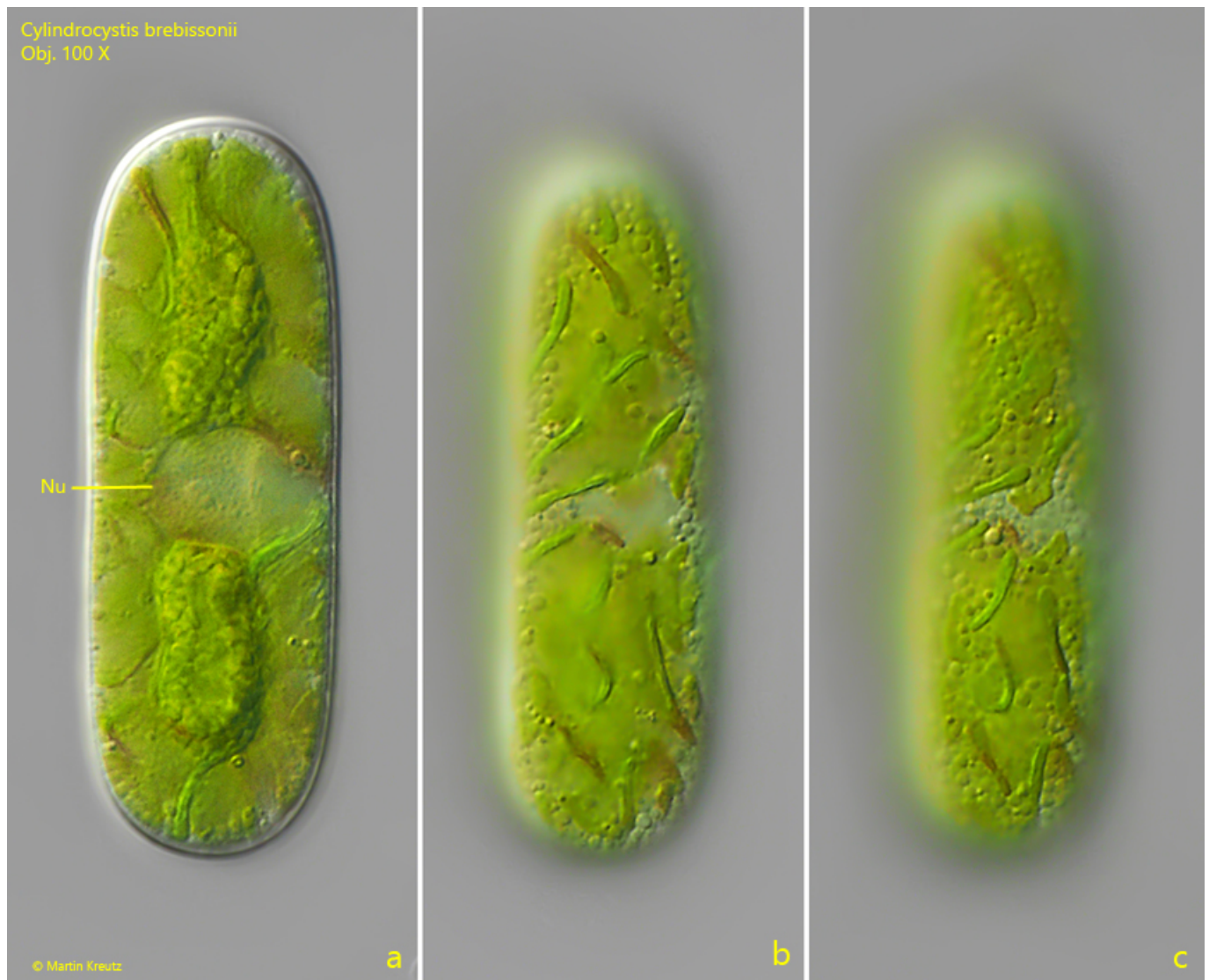


after Raban

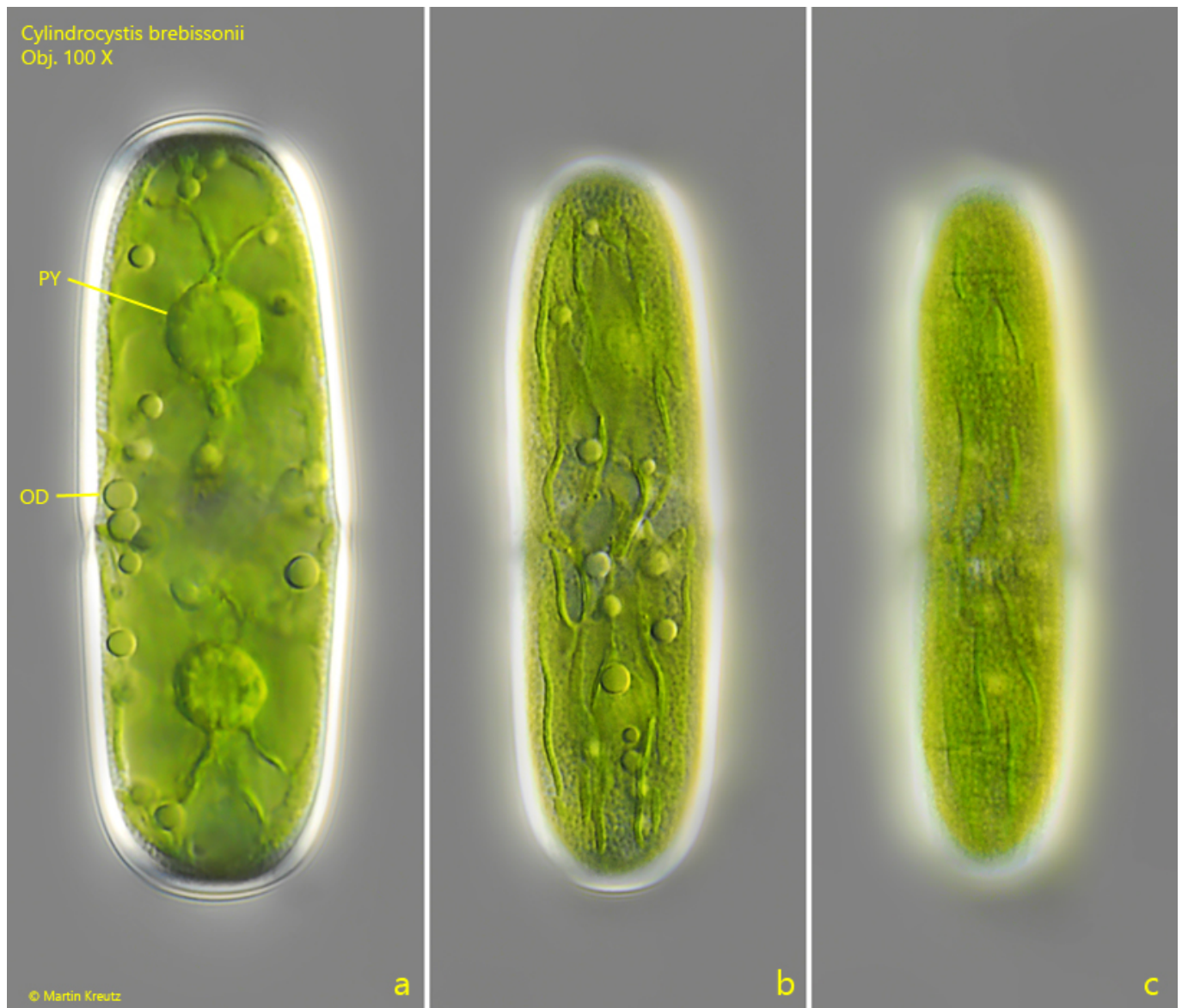
### *Cylandrocystis brebissonii*

*Cylandrocystis brebissonii* is an extremely common algae, but it is bound to acidic locations. It is therefore very common in bog waters. In the [Simmelried](#) I only find it in the bank zones and puddles with *Sphagnum* growth.

The cell wall of *Cylandrocystis brebissonii* is smooth. The fine dotting that can be seen in the images below is caused by the pore apparatus in the cell wall, which is responsible for the secretion of mucus. I have described elsewhere how the pore apparatuses can be easily stained and visualized (s. [Micrasterias rotata](#)).



**Fig. 1 a-c:** *Cylindrocystis brebissonii*. L = 65  $\mu$ m. Three focal planes of a specimen found in June 2024 in the [Sima Moor](#). Nu = nucleus. Obj. 100 X.



**Fig. 2 a-c:** *Cylindrocystis brebissonii*. L = 65  $\mu\text{m}$ . Three focal planes of a second specimen from the [Sima Moor](#). OD = oil droplets, PY = pyrenoid. Obj. 100 X.





**Fig. 3 a-c:** *Cylindrocystis brebissonii*. L = 65  $\mu\text{m}$ . The same specimen as shown in fig. 2 a-c in brightfield illumination. Obj. 100 X.