## *Closterium praelongum* Brébisson, 1856

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

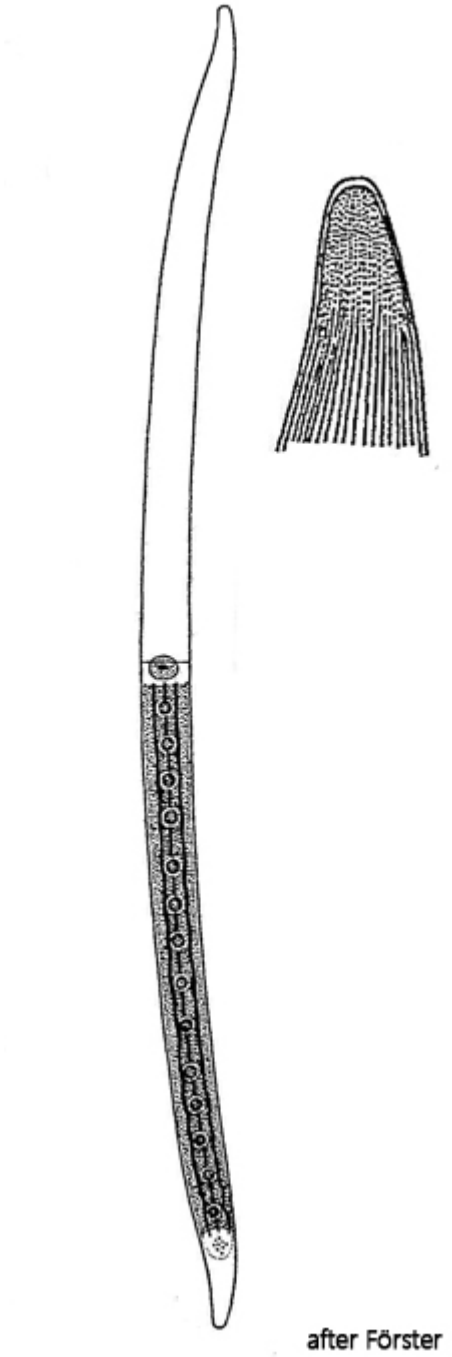
**Synonym:** n.a.

**Sampling location:** Mindelsee, Simmelried

**Phylogenetic tree:** *Closterium praelongum*

**Diagnosis:**

- cell long, slender, near apices slightly curved, middle almost straight
- apices slightly bent backwards
- length 380–950 µm, width 25–40 µm
- two chloroplasts, each with 3–5 longitudinal ridges
- 7–25 pyrenoids per cell
- girdle bands absent, sometime pseudogirdle bands
- cell wall smooth or with fine striation
- near apices striation change to punctate
- apices without porus



Closterium praelongum

So far I have only found *Closterium praelongung* in the shore area of the Mindelsee and in the Simmelried. In both locations, however, *Closterium praelongung* is not very common.

*Closterium praelongum* is a very large species within the genus and is usually around 500 µm long. The cells are very slender and only curved at the cell ends. The middle part is parallel-sided and straight. The apices are characteristically slightly bent backwards. I was able to recognize a delicate and narrow striation on the cell wall, which was sometimes interrupted (s. fig. 3). At the apices this delicate striation turns into a punctation, which is typical for the species (s. fig. 4). In each half cell there are very many pyrenoids, which are

all arranged along the longitudinal midline (s. fig. 1 a).

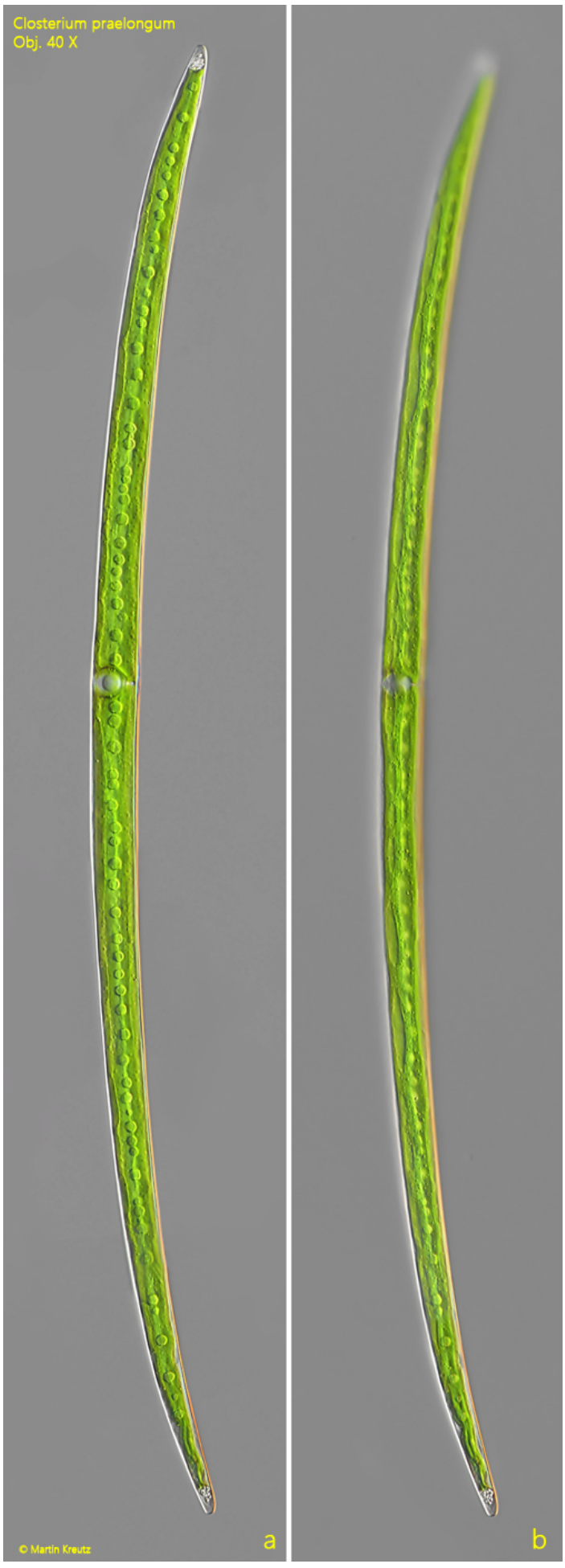

Closterium praelongum
Obj. 40 X
© Martin Kreutz
a
b

**Fig. 1 a-b:** *Closterium praelongum*. L = 570 µm. Two focal planes of a specimen found in the Simmelried. Obj. 40 X.


**Fig. 2:** *Closterium praelongum*. The apices are slightly curved backwards. A terminal porus is absent. Obj. 100 X.


**Fig. 3:** *Closterium praelongum*. The delicate striation of the cell wall. Sometimes the stripes are interrupted. Obj. 100 X.

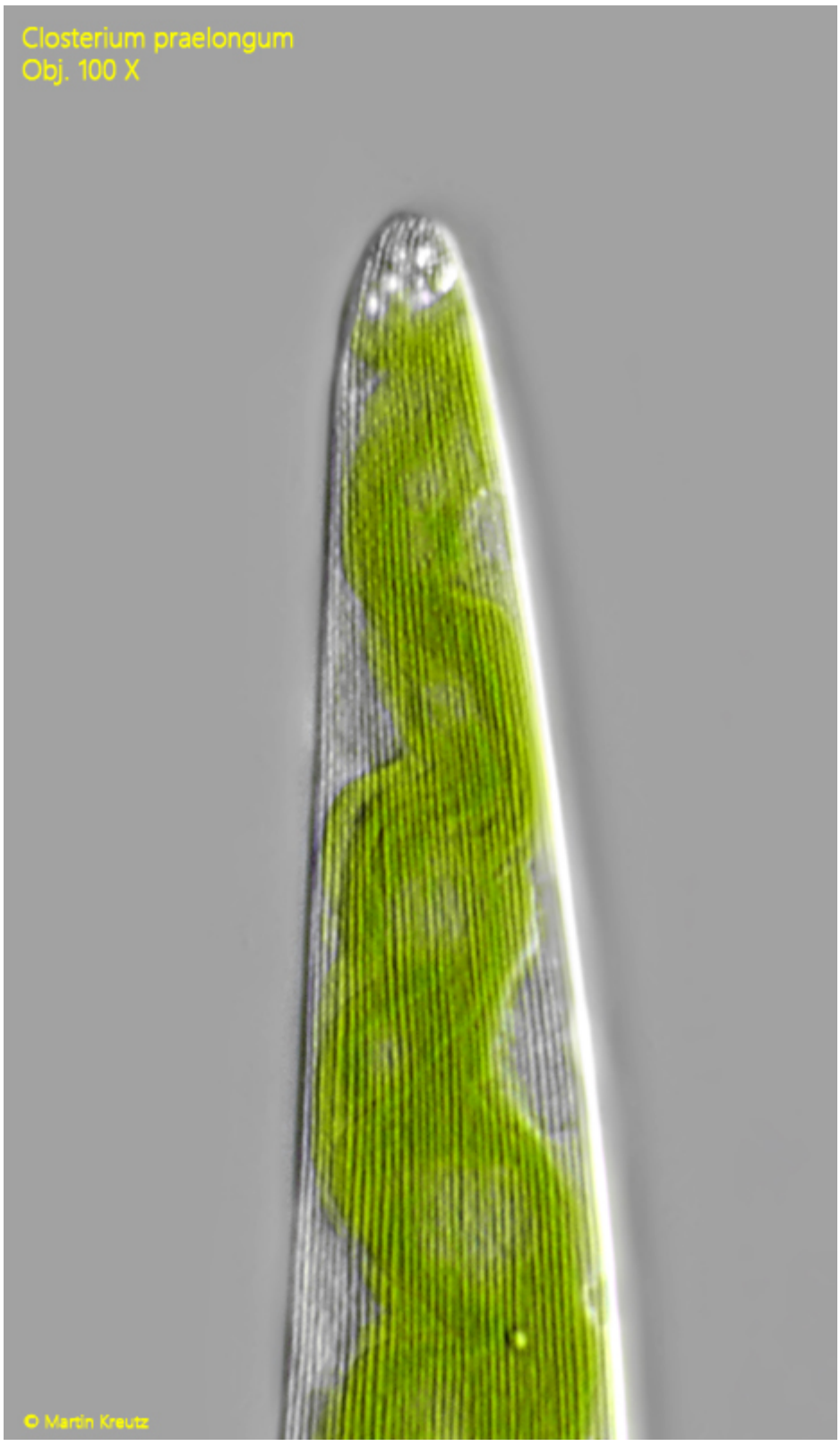



**Fig. 4:** *Closterium praelongum*. Near the apices the striation change to punctate. Obj. 100 X.

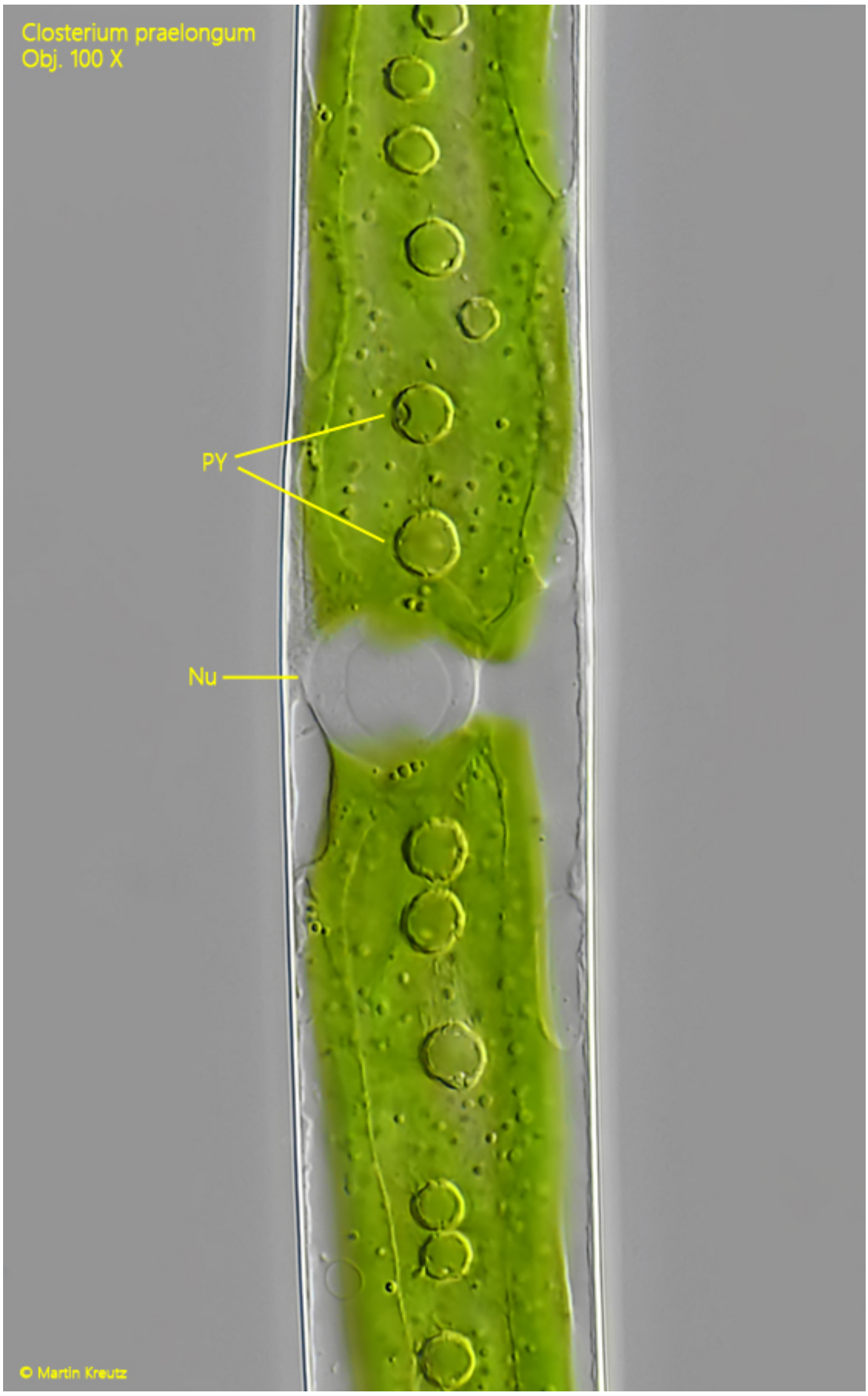



**Fig. 5:** *Closterium praelongum*. The nucleus (Nu) and the pyrenoids (PY) in a slightly squashed specimen. Obj. 100 X.