

***Closterium diana* var. *pseudodiana***

**(Roy) Krieger, 1935**

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

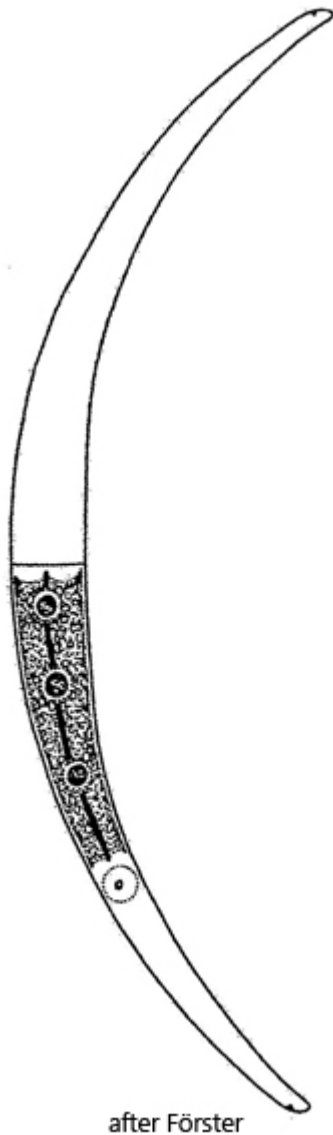
**Synonym:** *Closterium pseudodiana*

**Sampling location:** [Schwemm Moor \(Austria\)](#)

**Phylogenetic tree:** [Closterium diana](#) var. *pseudodiana*

**Diagnosis:**

- cell crescent-shape, 14-21 times longer than wide
- apices obliquely truncated with a terminal pore
- inner margin sometimes straight in mid-region
- length 150-260 µm, width 14-18 µm
- cell wall smooth without striation
- two chloroplasts, each with 3-5 longitudinal ridges
- several pyrenoids arranged along cell axis
- girdle bands absent
- terminal vacuoles with several crystals
- nucleus central



after Förster

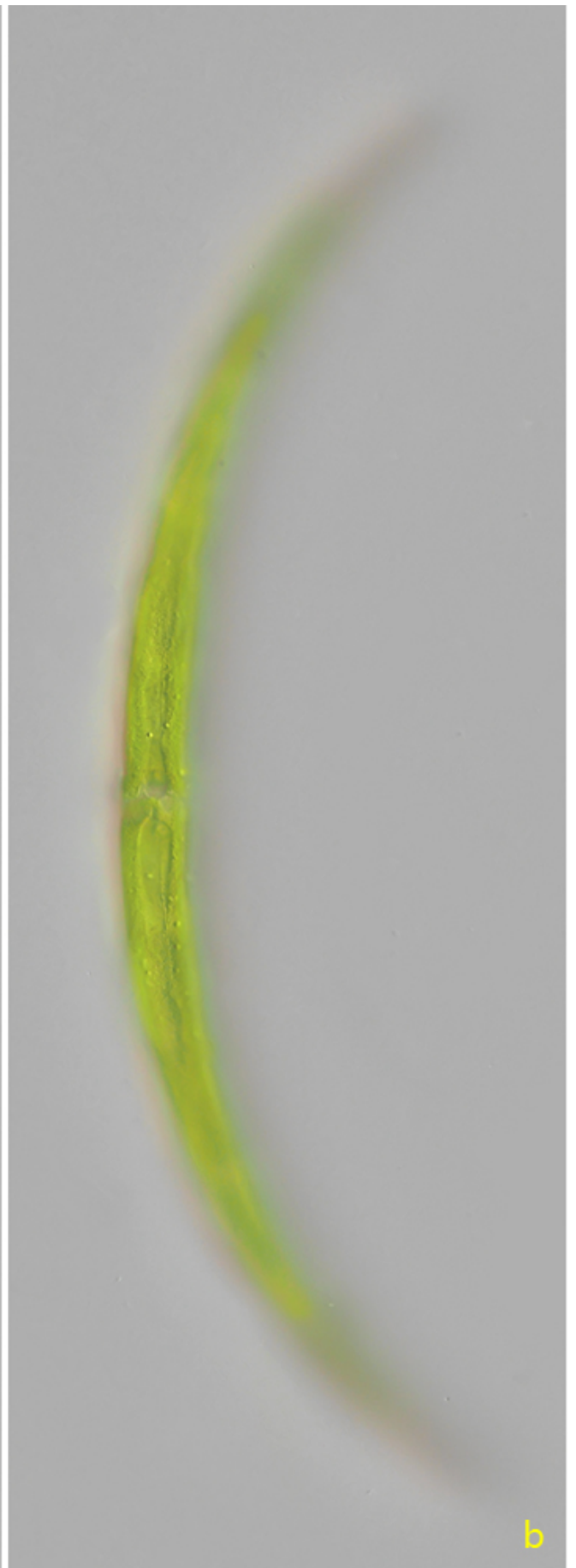
### *Closterium diana* var. *pseudodiana*

I found several specimens of *Closterium diana* var. *pseudodiana* in an old sample from the [Schwemm Moor](#). The cells are more slender and curved compared to the basic form [Closterium diana](#).

To distinguish it from the similar varieties *Closterium diana* var. *arcuatum* and *Closterium diana* var. *minus*, it is necessary to measure the length and width of the cells. *Closterium diana* var. *arcuatum* is significantly longer at over 350  $\mu\text{m}$ , and *Closterium diana* var. *minus* is clearly smaller at under 150  $\mu\text{m}$  in length. In addition, *Closterium diana* var. *arcuatum* is also wider in the middle of the cell at 20–30  $\mu\text{m}$  than *Closterium diana* var. *pseudodiana*.

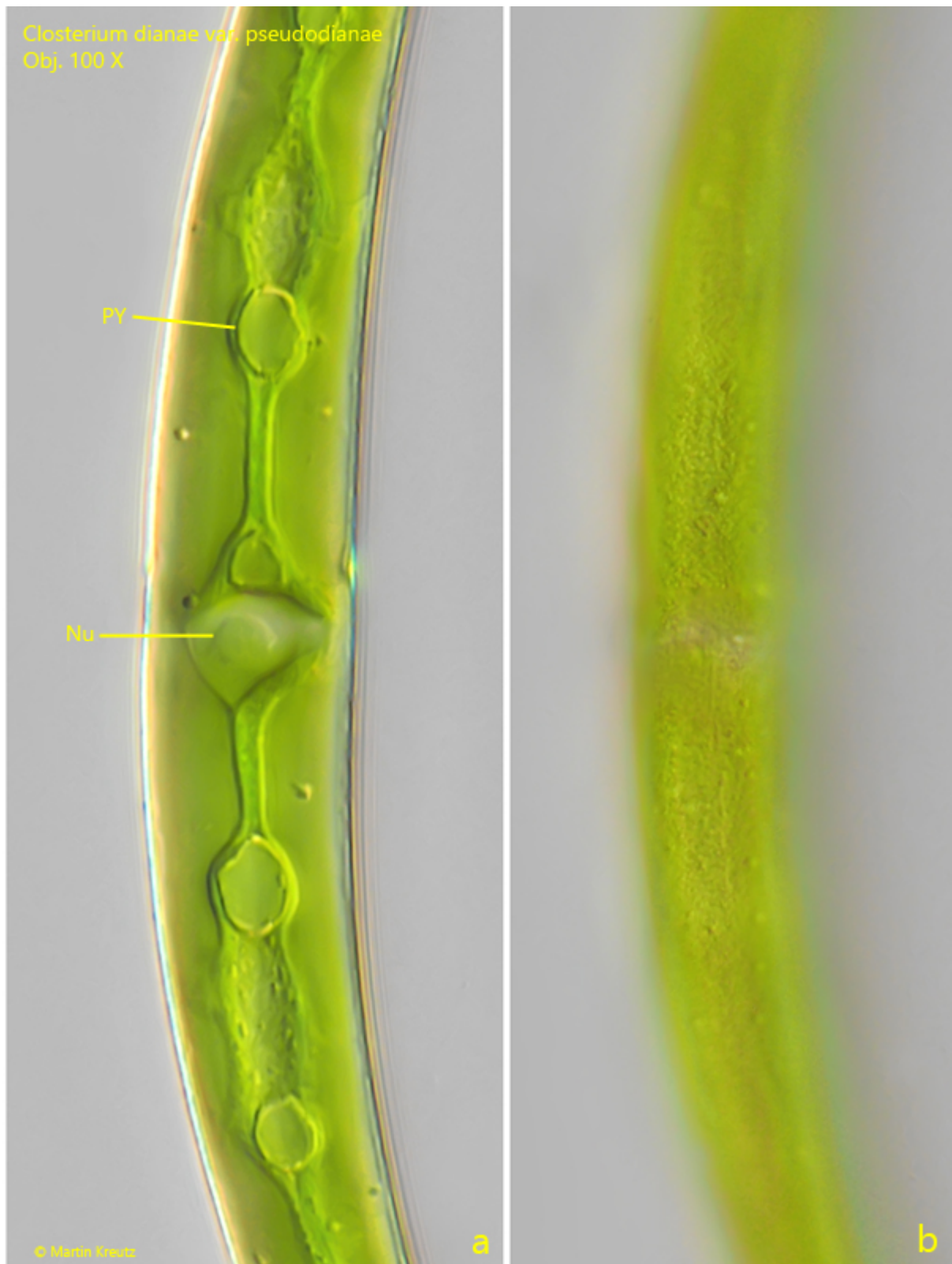
*Closterium diana* var. *pseudodiana* has so far only been detected in Austria in

Lake Neusiedl by Kusel & Fetzmann (1974). In Germany, the species has been found, for example, in the Harz National Park (Reinecke, 2022). In general, the species is considered rare.



**Fig. 1 a-b:** *Closterium diana* var. *pseudodiana*. L = 242  $\mu$ m. Two focal planes of a

specimen found in the [Schwemm Moor](#). In the middle the cell is 15  $\mu\text{m}$  wide. Obj. 60 X.



**Fig. 2 a-b:** *Closterium diana* var. *pseudodiana*. L = 242  $\mu\text{m}$ . Focal plane on the nucleus (Nu) and on the smooth cell wall. PY = pyrenoid. Obj. 100 X.



**Fig. 3:** *Closterium diana* var. *pseudodiana*. The distinct porus (PO) of the apex. Obj. 100 X.