Closterium abruptum* var. *brevius

(West & G.S.West) West & G.S.West

Most likely ID: n.a.

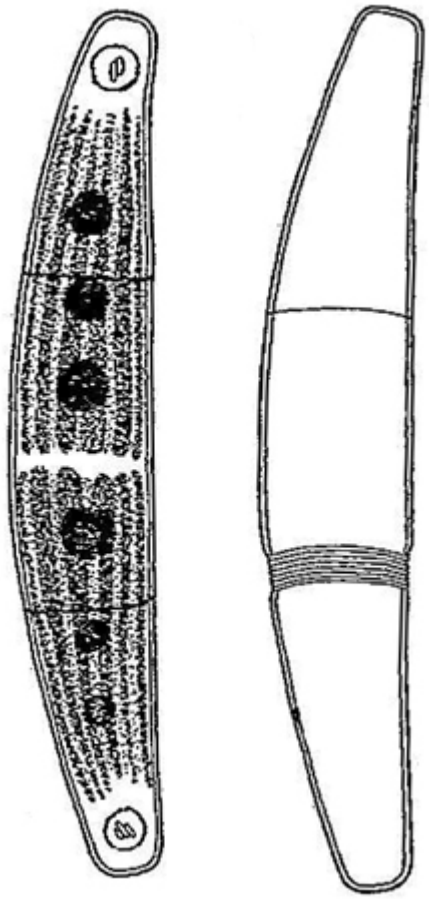
Synonym: n.a.

Sampling location: Jackl Moor (Austria), Ibmer Moor (Austria), Lauchsee Moor (Austria)

Phylogenetic tree: *Closterium abruptum* var. *brevius*

Diagnosis:

- cell crescent-shape, slightly curved, stocky shape
- apices broad, obliquely truncated, terminal pore absent
- inner margin almost straight
- length 100–120 µm, width 16–18
- cell wall with distinct striation
- two chloroplasts, each with 3-4 longitudinal ridges
- several pyrenoids per chloroplast
- girdle bands present
- terminal vacuoles filled with aggregates of crystals



after Lenzenweger

Closterium abruptum var. brevius

I first found *Closterium abruptum* var. *brevius* in June 1995 in the Jackl Moor and the Ibmer Moor and again in July 2024 in the Lauchsee Moor. All these moorland areas are located in Austria.

The shape of *Closterium abruptum* var. *brevius* appears compact. The cell is only slightly curved, with the inner margin almost straight. In contrast to the parent form *Closterium abruptum*, the striation of the cell wall is very distinct. The length of the cells is given by Lenzenweger as 100–120 µm. The specimens I found were considerably longer at around 180–200 µm. However, it cannot be the longer variety *Closterium abruptum* var. *nilssonii*, because this species also has only a very delicate striation and the cells are also much slimmer.

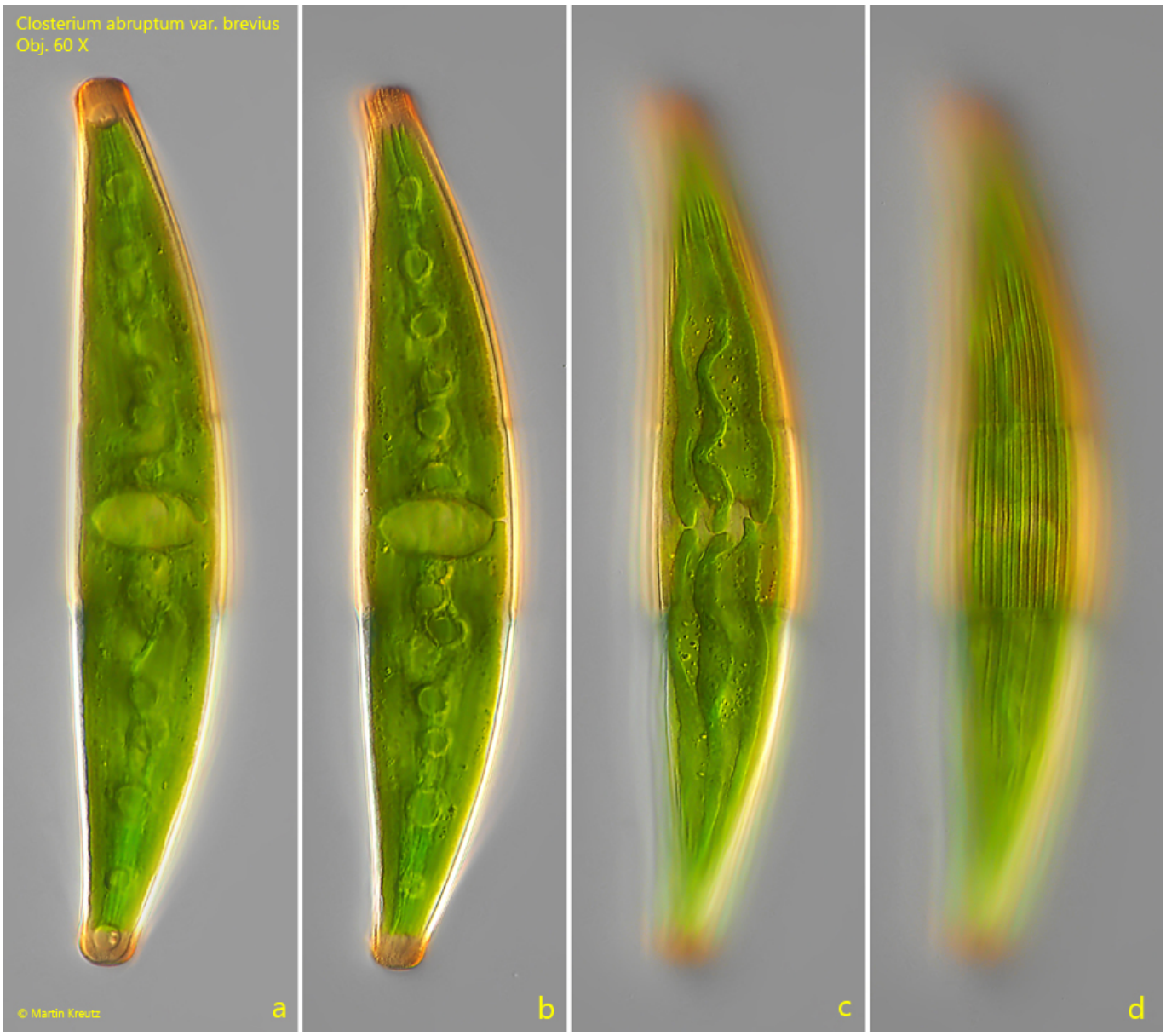


Fig. 1 a-d: *Closterium abruptum* var. *brevius*. L = 194 µm. Different focal planes of an unsquashed specimen. Obj. 60 X.

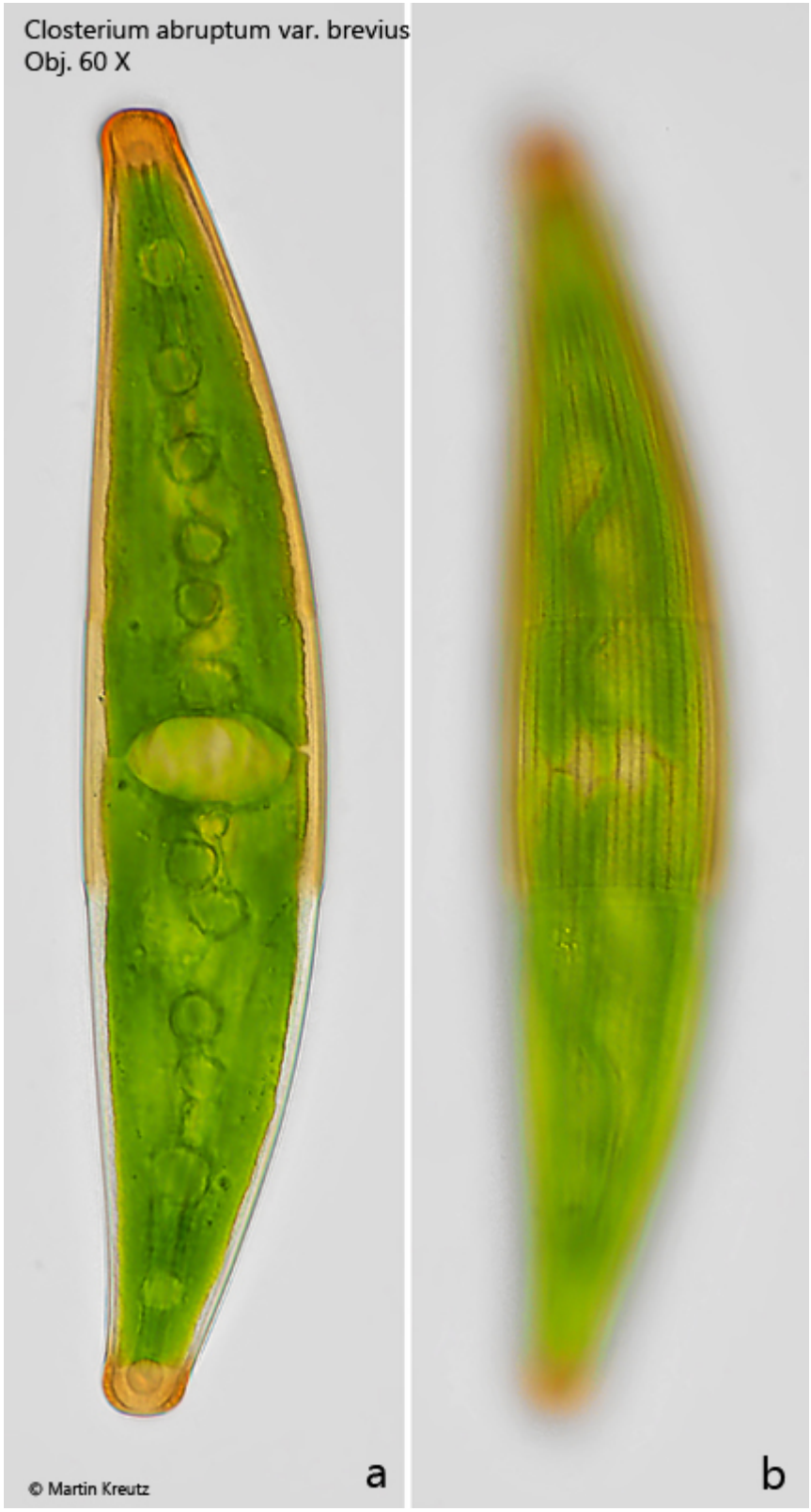


Fig. 2 a-b: *Closterium abruptum* var. *brevius*. L = 194 µm. The same specimen as shown in fig. 1 a-d in brightfield illumination. Obj. 60 X.

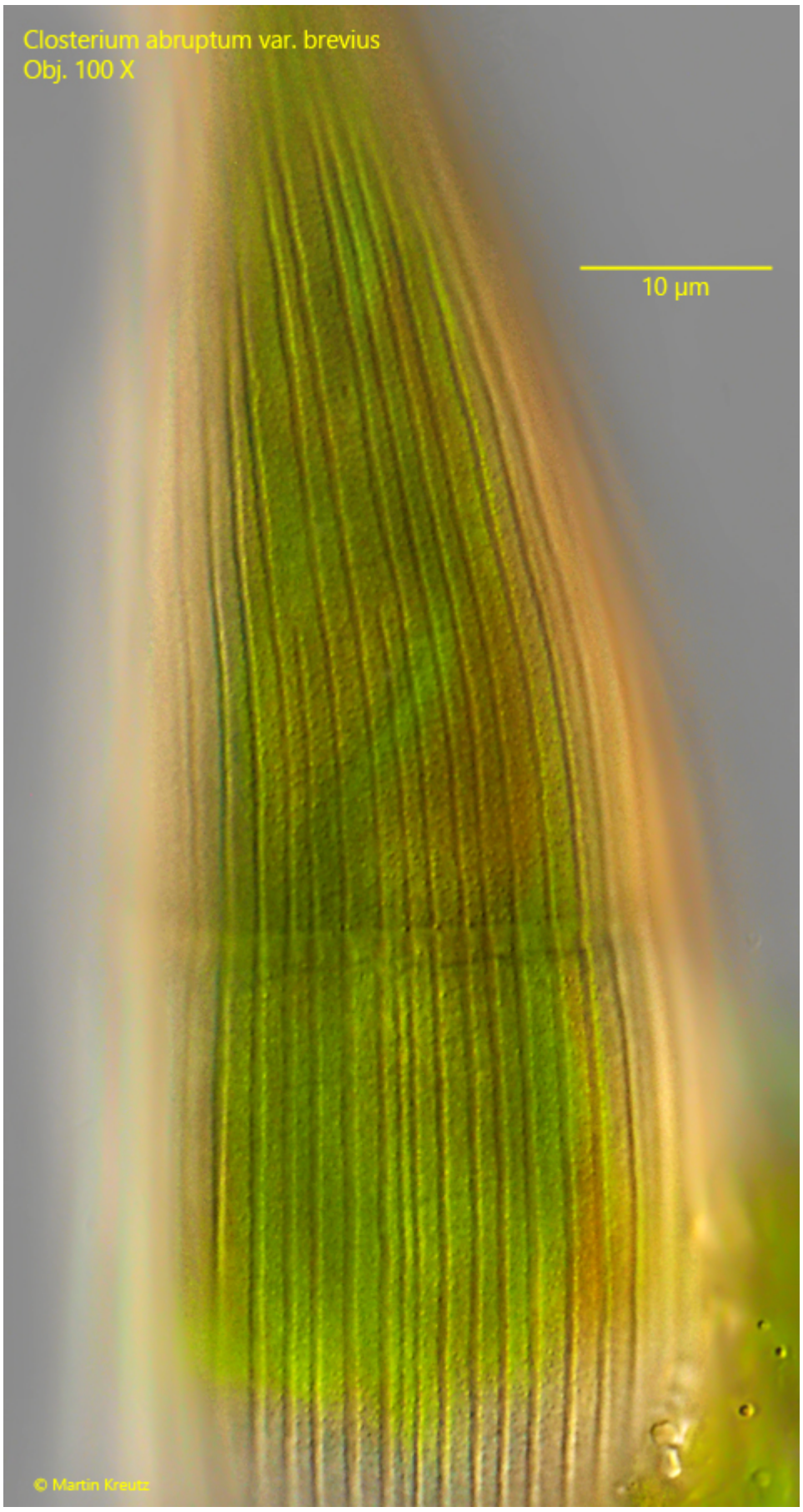


Fig. 3: *Closterium abruptum* var. *brevius*. The striation of the cells in a squashed specimen. The ridges vary in width and have varying distances between them. Obj.

100 X.

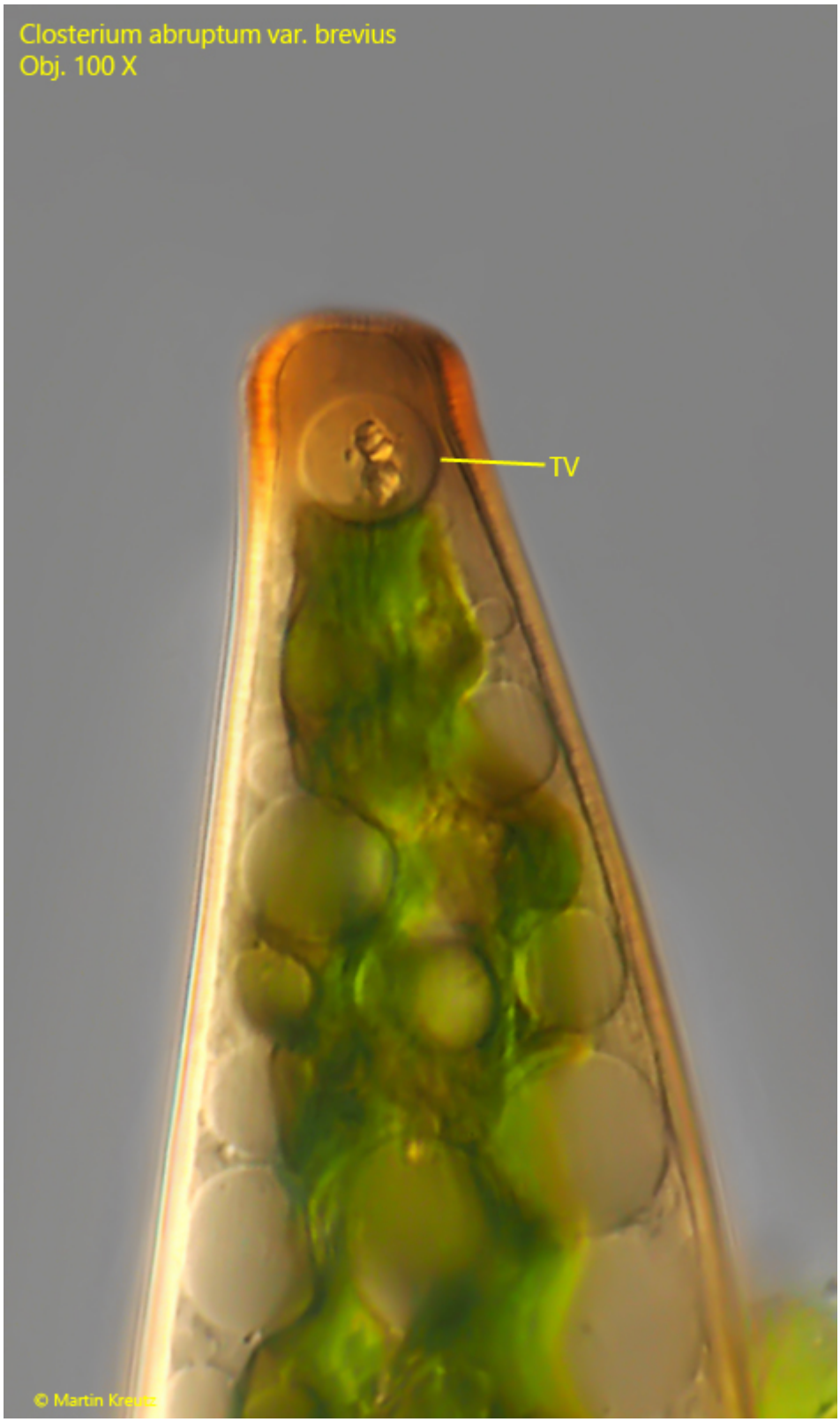


Fig. 4: *Closterium abruptum* var. *brevius*. The truncated apex and the terminal vacuole (TV) which is filled with clusters of crystals. Obj. 100 X.