

***Fusola viridis* (Snow, 1903)**

Most likely ID: n.a.

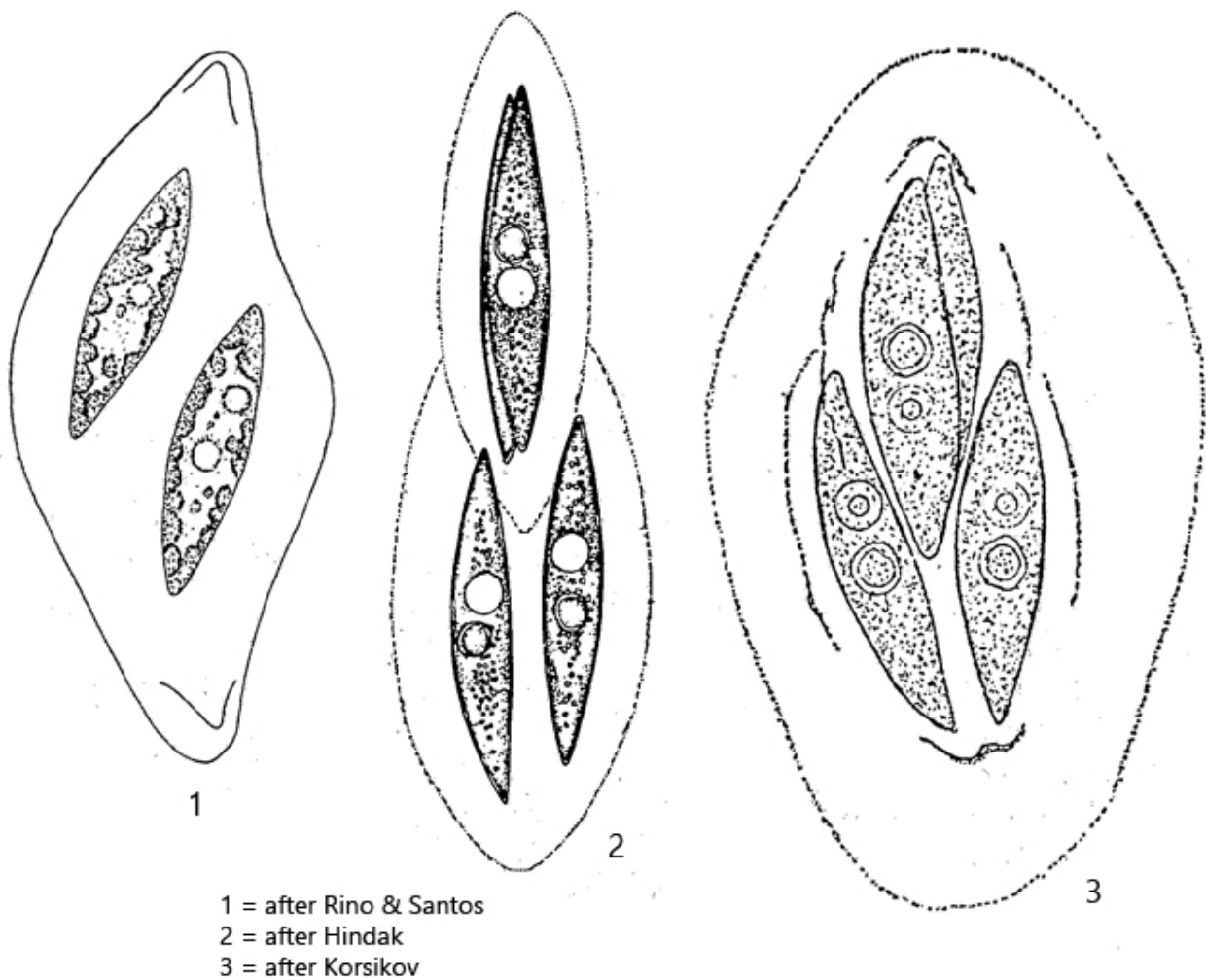
Synonym: *Elakatothrix viridis*, *Ankistrodesmus viridis*

Sampling location: [Simmelried](#)

Phylogenetic tree: [Fusola viridis](#)

Diagnosis:

- colonies of 2-4-8-cells in a mucilaginous envelope
- cells spindle-shaped, 25 - 54 µm long
- cells arranged serially and shifted against each other
- many parietal chloroplasts, plate-shaped
- nucleus central
- one or two pyrenoids
- cells often filled with starch grains



Fusula viridis

I find *Fusula viridis* exclusively in [Simmelried](#) in decomposing plant masses, but always sporadically. The last finds were in April 2016 and in September 2022. This alga can very easily be confused with *Elakatothrix*, which also has spindle-shaped cells in a mucilage shell. However, members of the genus *Elakatothrix* have only 1 or 2 chloroplasts.

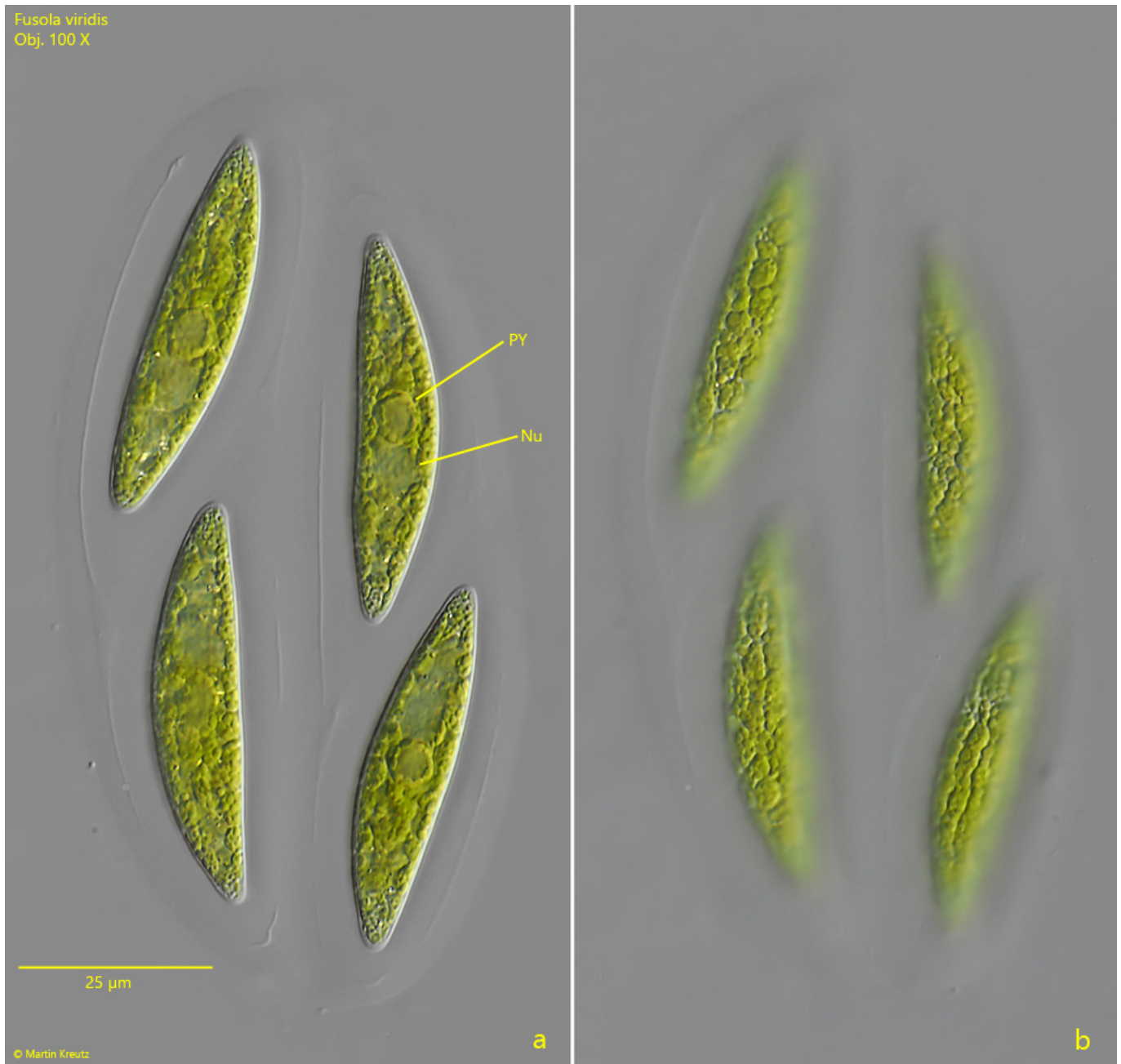


Fig. 1 a-b: *Fusula viridis*. L = 49 -55 µm. Two focal planes of a slightly squashed colony of 4 cells. Nu = nucleus, PY = pyrenoid. Obj. 100 X.

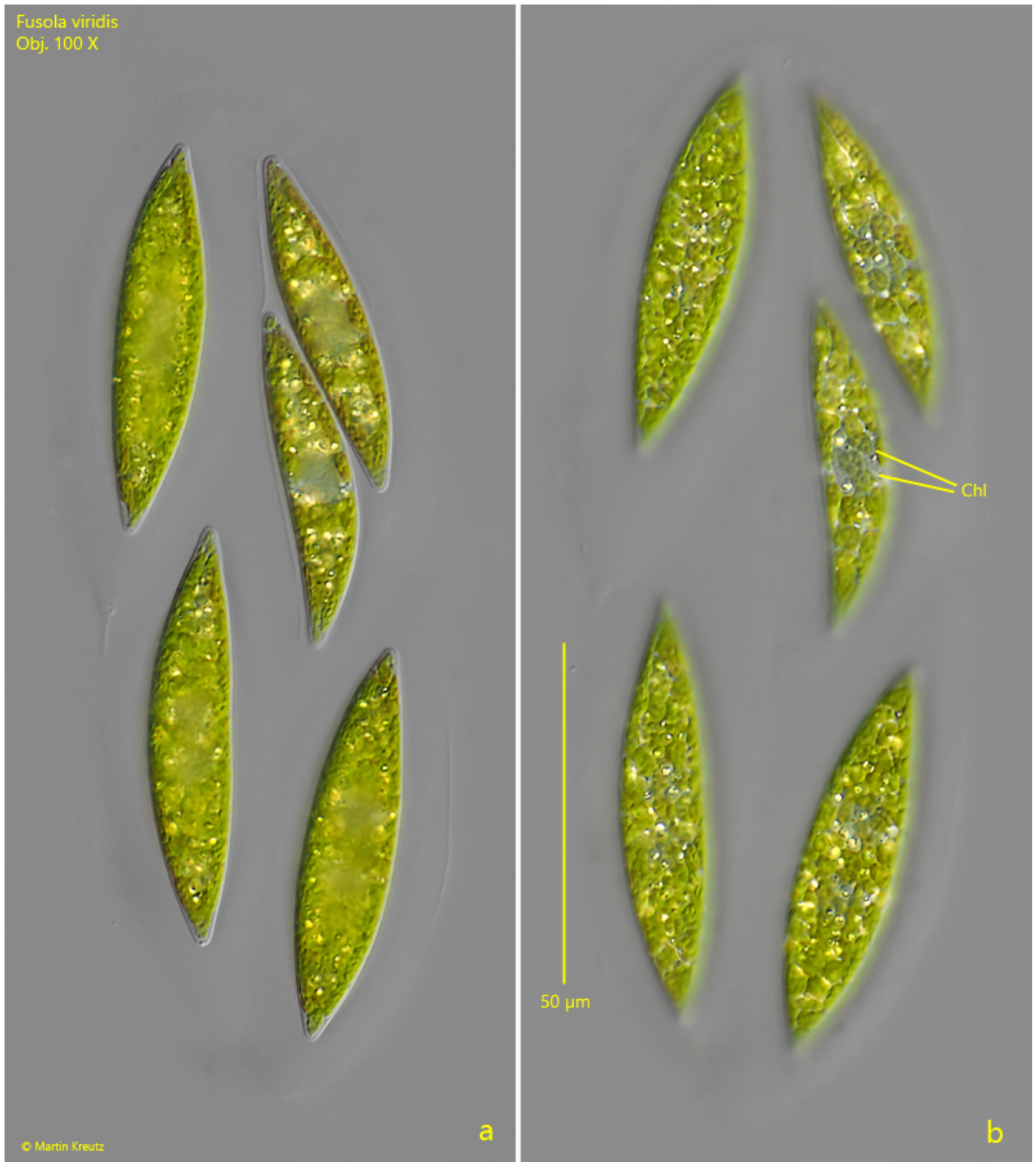


Fig. 2 a-b: *Fusula viridis*. L = 36 -59 µm. Two focal planes of a second colony with 5 cells. One cell of the colony had recently divided. The plate-shaped chloroplasts are visible in the two daughter cells (Chl, s. fig. 2b). Obj. 100 X.



Fig. 3: *Fusola viridis*. L = 35 - 37 μm. A young colony of 2 cells. Nu = nucleus, PY = pyrenoid, SG = starch grains. Obj. 100 X.