Cosmarium neodepressum

Ramos & Moura, 2020

Most likely ID: n.a.

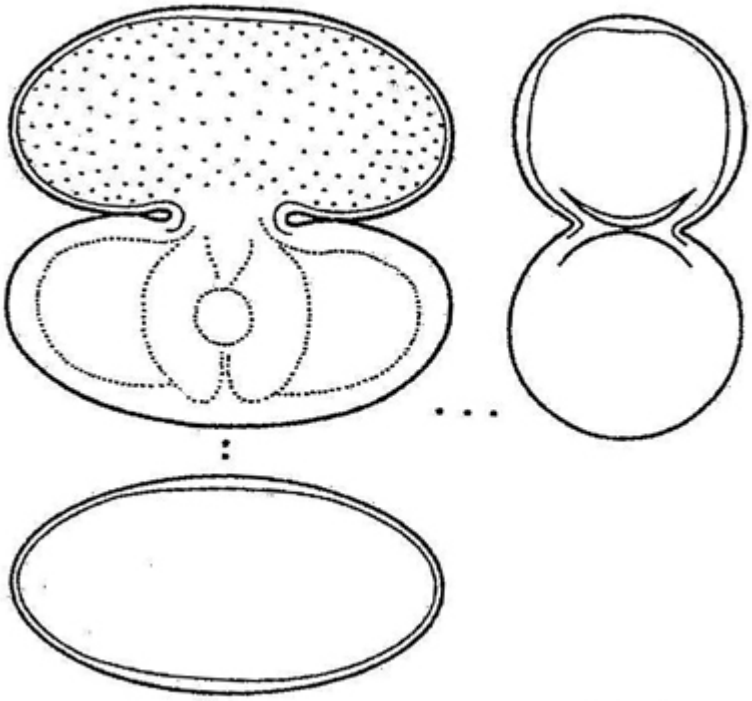
Synonym: *Cosmarium depressum*

Sampling location: Simmelried

Phylogenetic tree: *Cosmarium neodepressum*

Diagnosis:

- semi-cells elliptic, slightly depressed
- length 36–56 µm, width 36–60 µm
- sinus narrow, linear
- isthmus narrow
- cell wall covered with fine pores
- one pyrenoid per semi-cell



Cosmarium neodepressum

So far I have only found *Cosmarium neodepressum* in the Simmelried, where this desmid alga can be found regularly, but never frequently.

Cosmarium neodepressum has unfolded, flat chloroplasts, which makes the specimens appear very transparent and bright. The semi-cells are broadly elliptical with a typical shape. The cell wall is granulated. These are pores through which the often visible gelatinuous sheath is excreted. Bacteria often colonize the surface of this sheath.

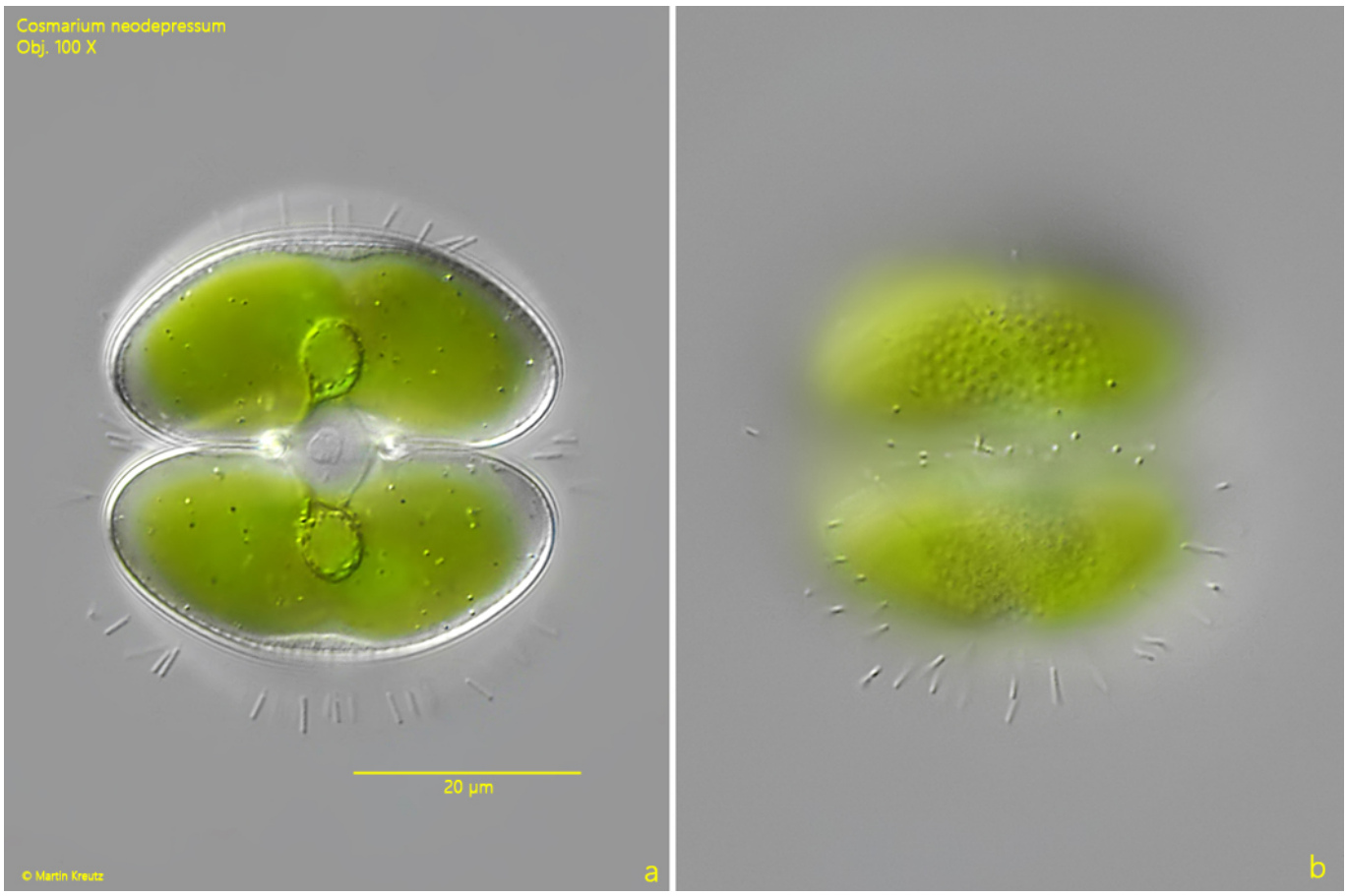


Fig. 1 a-b: *Cosmarium neodepressum.* L = 40 µm. Two focal planes of a young specimen. Note the granulated surface of the cell wall (b). Obj. 100 X.

Fig. 2: *Cosmarium neodepressum.* L = 38 µm. A specimen in brightfield illumination. Obj. 100 X.

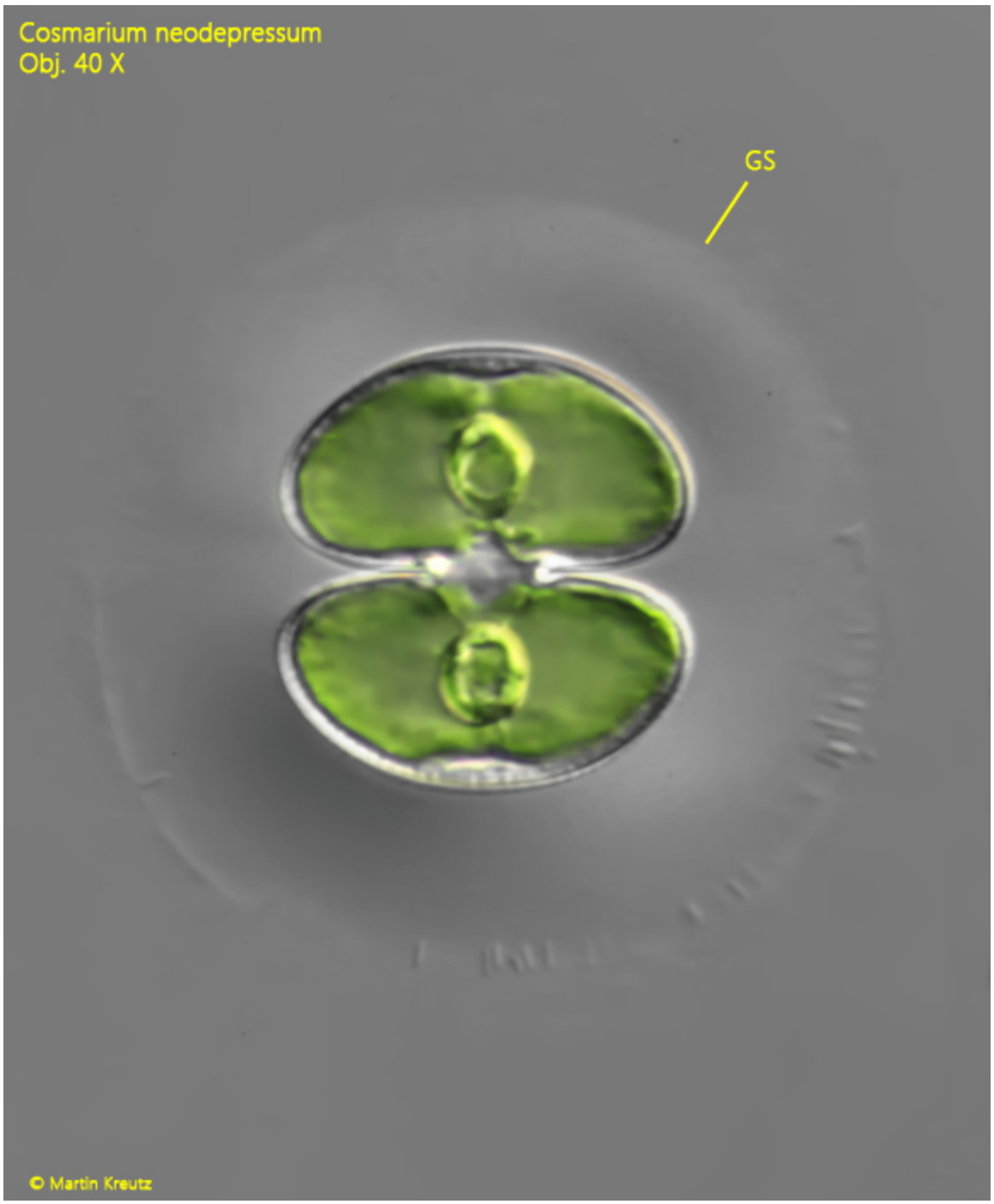


Fig. 3: *Cosmarium neodepressum.* L = 44 µm. A specimen with a clearly visible gelatinuous sheath (GS). Obj. 40 X.

Fig. 4: *Cosmarium neodepressum*. A specimen in cell division. Nu = nucleus. Obj. 100 X.