

Cosmarium neodepressum

Ramos & Moura, 2020

Most likely ID: n.a.

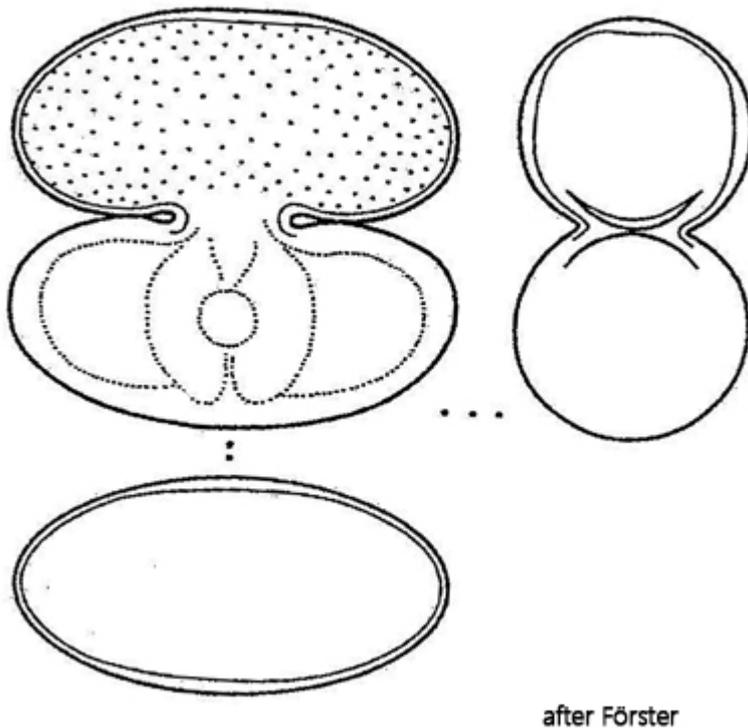
Synonym: *Cosmarium depressum*

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 gelatinous sheath is excreted. Bacteria often colonize the surface of this sheath.

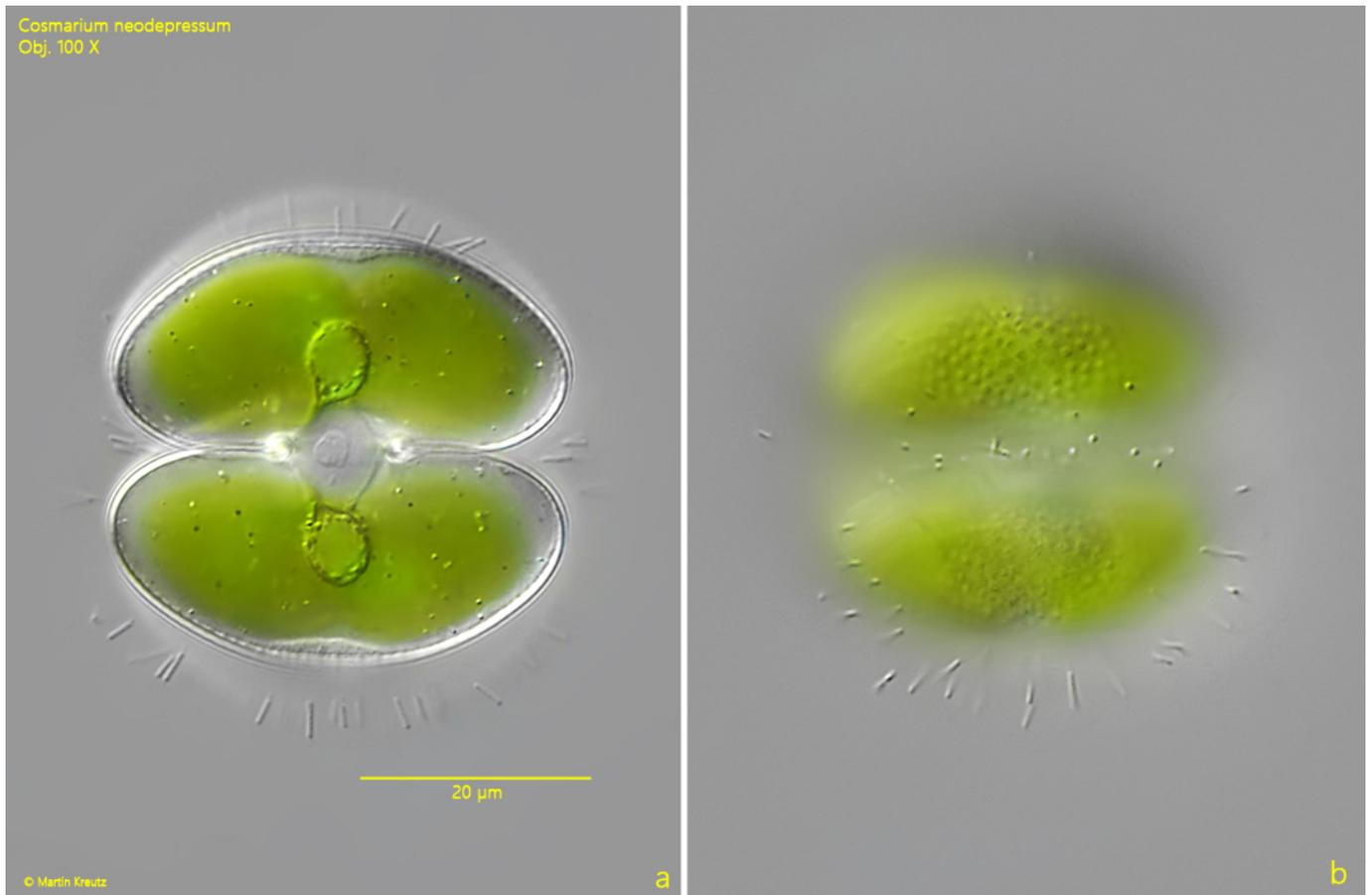


Fig. 1 a-b: *Cosmarium neodepressum*. L = 40 µm. Two focal planes of a young specimen. Note the granulated surface of the cell wall (b). Obj. 100 X.

Cosmarium neodepressum
Obj. 100 X



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

Cosmarium neodepressum
Obj. 40 X

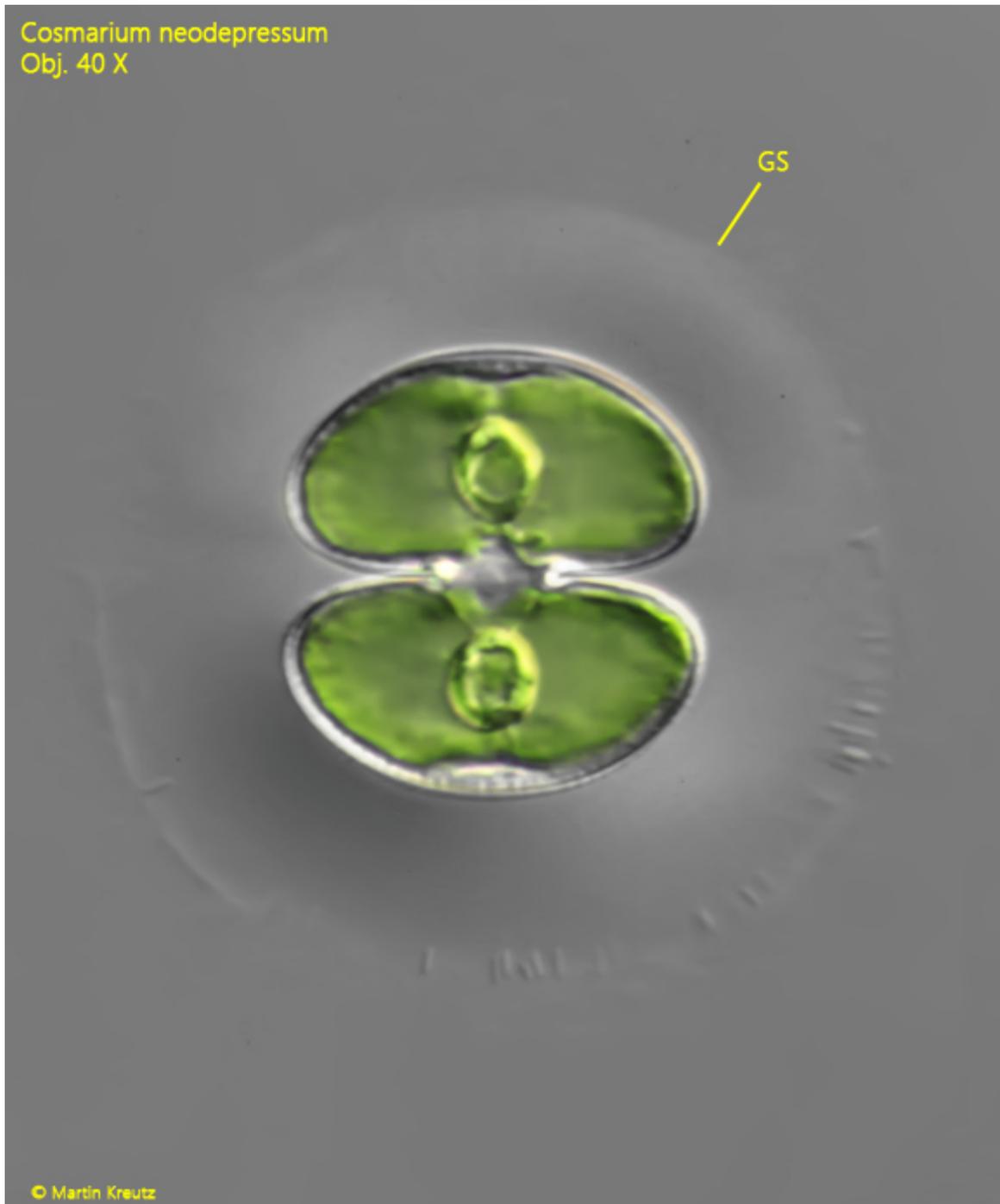
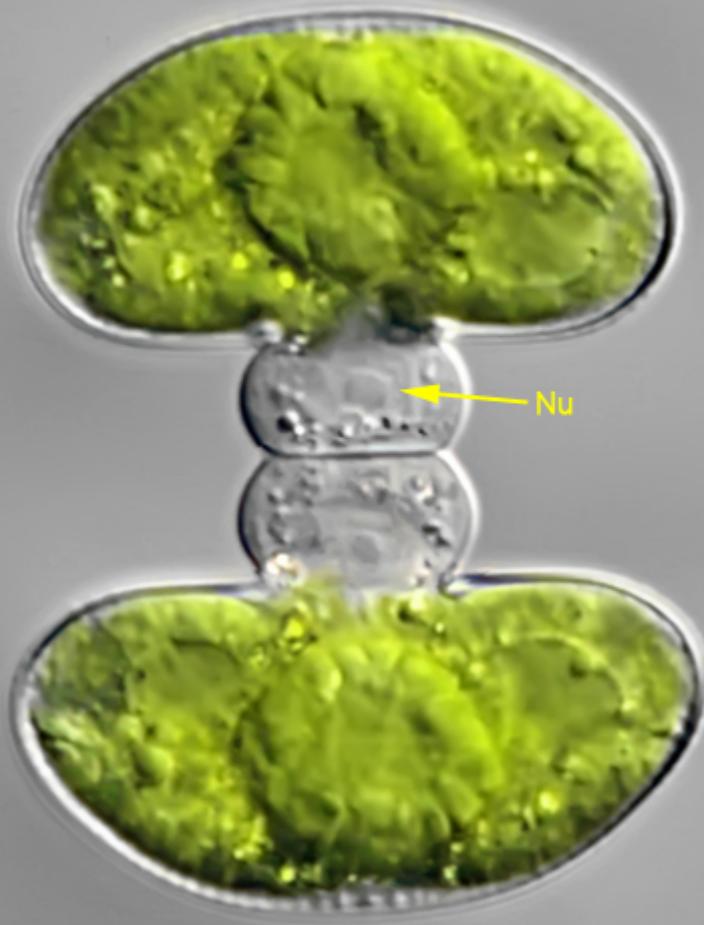


Fig. 3: *Cosmarium neodepressum*. L = 44 μm . A specimen with a clearly visible gelatinuous sheath (GS). Obj. 40 X.

Cosmarium neodepressum
Obj. 100 X



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