

***Gonatozygon brebissonii* (de Bary, 1858)**

Most likely ID: n.a.

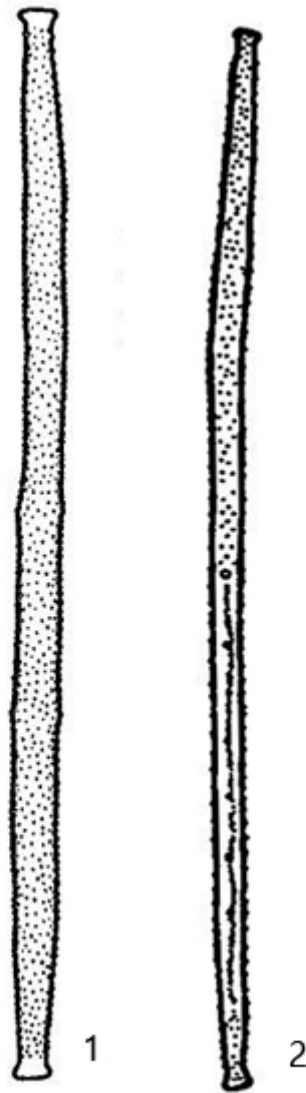
Synonym: n.a.

Sampling location: [Simmelried](#), [Ulmisried](#)

Phylogenetic tree: [Gonatozygon brebissonii](#)

Diagnosis:

- cell long, spindle shaped, tapering to slightly swollen capitate apices
- cell wall covered with granules or short conical spines
- length 150–250 µm, width 7–11 µm
- two ribbon-shaped chloroplasts with 5–16 pyrenoids
- chloroplast fill not the capitate apices
- nucleus central



1 = after Lenzenweger
2 = after Williamson

Gonatozygon brebissonii

I find *Gonatozygon brebissonii* rarely, but regularly. The specimens are usually found in shallow places in the sampling sites where they are found in the uppermost mud layer.

Gonatozygon brebissonii can be identified even at small magnifications, as the apical ends are clearly swollen. The cells are straight and at most minimally curved. The most striking feature is the clearly granulated or with short spines covered cell wall. In my population there are short spines (s. fig. 1 b and 2 b). The apical ends are not filled with the chloroplasts and remain transparent. However, there are no vacuoles filled with crystals as in *Closterium*.

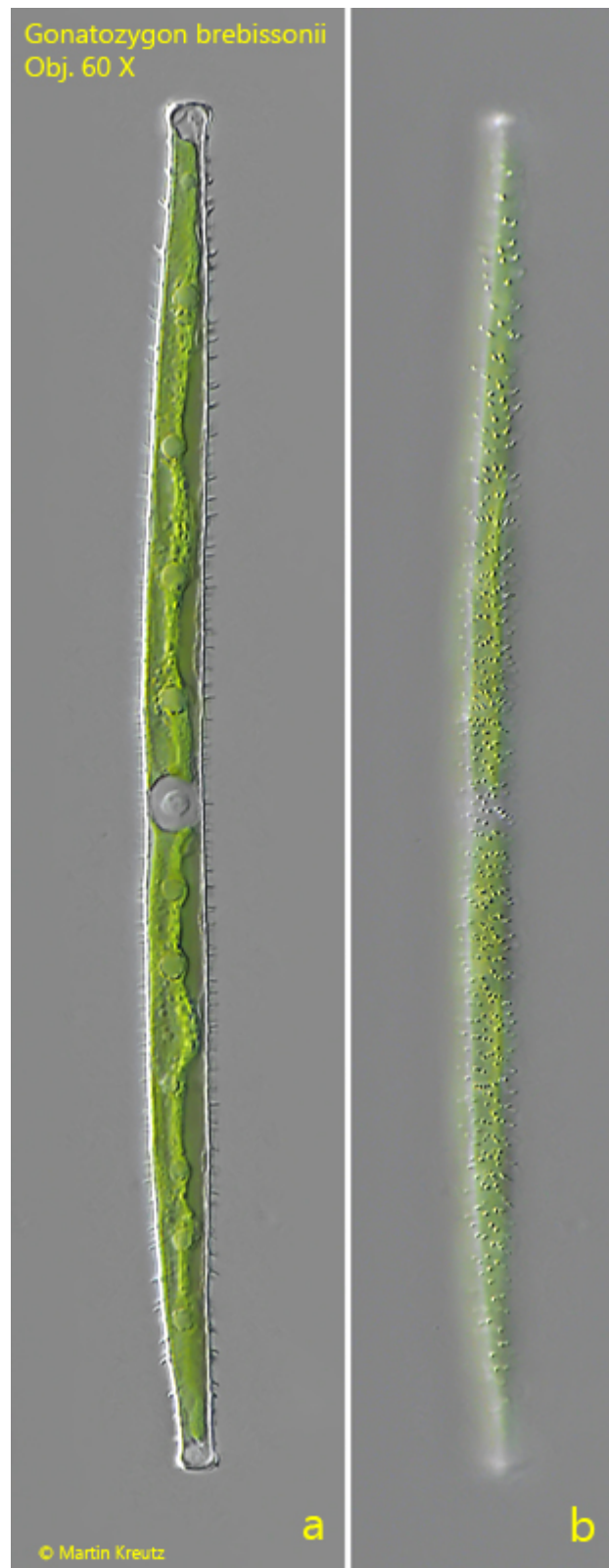


Fig. 1 a-b: *Gonatozygon brebissonii*. L = 172 μ m. Two focal planes of a specimen covered with short spines. Obj. 60 X.



Fig. 2 a-b: *Gonatozygon brebissonii*. L = 172 μm . The same specimen as shown in fig. 1 a-b in detail. Nu = nucleus, PY = pyrenoids. Obj. 100 X.