

***Stentor roeselii* (Ehrenberg, 1835)**

Most likely ID: n.a.

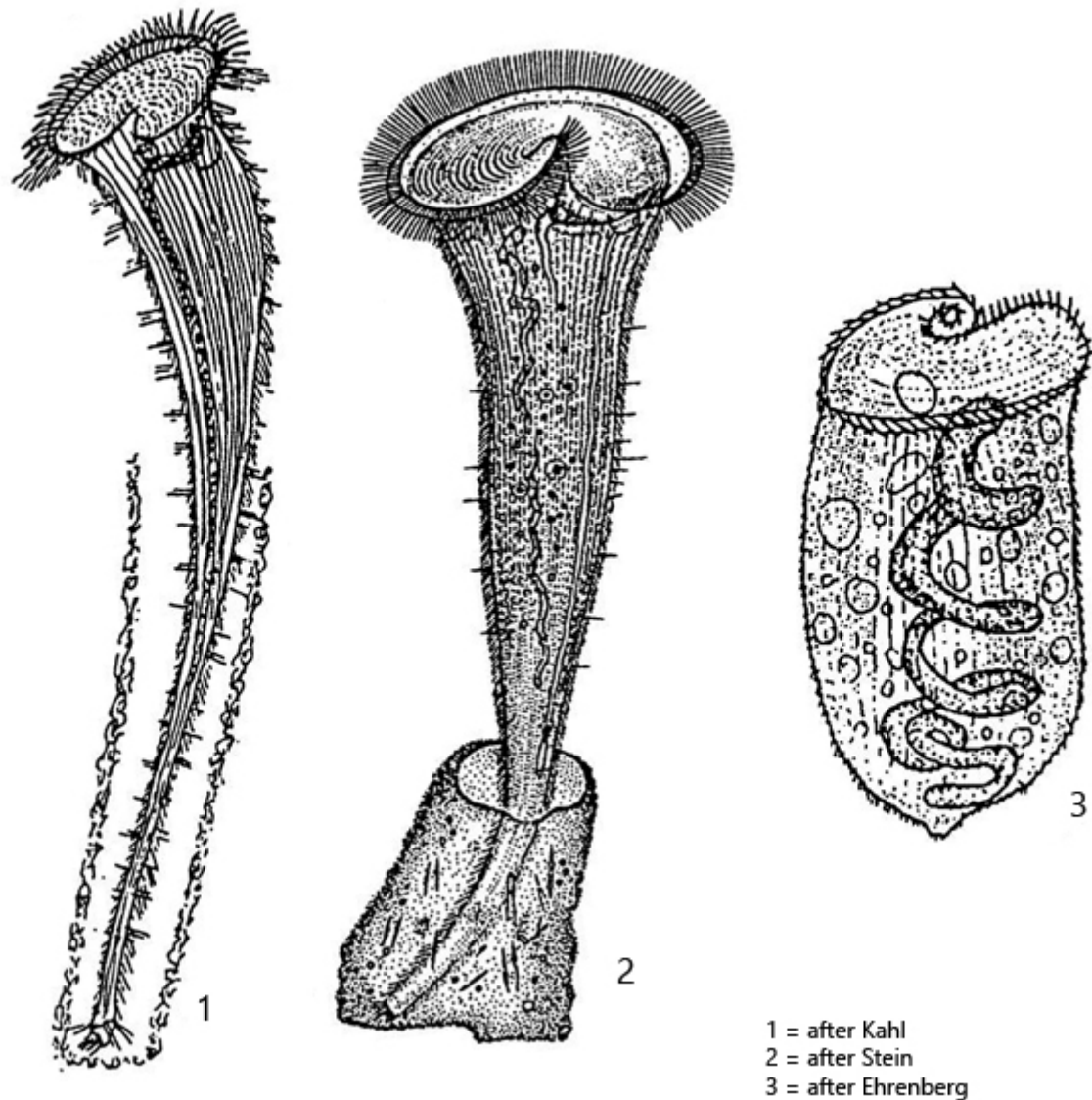
Synonym: n.a.

Sampling location: [Pond of the convent Hegne](#), [Simmelried](#)

Phylogenetic tree: [Stentor roeselii](#)

Diagnosis:

- body elongated trumpet-shaped, contracted ellipsoid to club-shaped
- appears yellowish or brownish, no symbiotic algae
- length 500–1200 µm, sometimes up to 3000 µm (of elongated specimens)
- adoral membranelle running in clockwise to oral funnel
- attached with thigmotactic cilia to the substrate
- sometimes in a hyaline case, 200–300 µm long
- macronucleus vermiform, along longitudinal axis of cell
- 7–20 spherical micronuclei adjacent to the macronucleus
- contractile vacuole on left wall of oral funnel with one collecting duct reaching posteriorly



Stentor roeselii

At low magnification, *Stentor roeselii* resembles [Stentor muelleri](#), which also appears yellowish or brownish. However, *Stentor roeselii* is about 30 % smaller than [Stentor muelleri](#) and appears somewhat plumper when fully elongated (s. fig. 1 c). The decisive distinguishing feature, however, is the shape of the macronucleus. In *Stentor roeselii* it is vermiform shaped, whereas in [Stentor muelleri](#) it is monoliform and resembles a pearl necklace. The shape of the macronucleus can be easily recognized even in slightly squashed specimens (s. figs. 2 and 3 b). In contrast, the small micronuclei, which are attached to the macronucleus, can only be recognized in strongly squashed specimens (s. fig. 5).

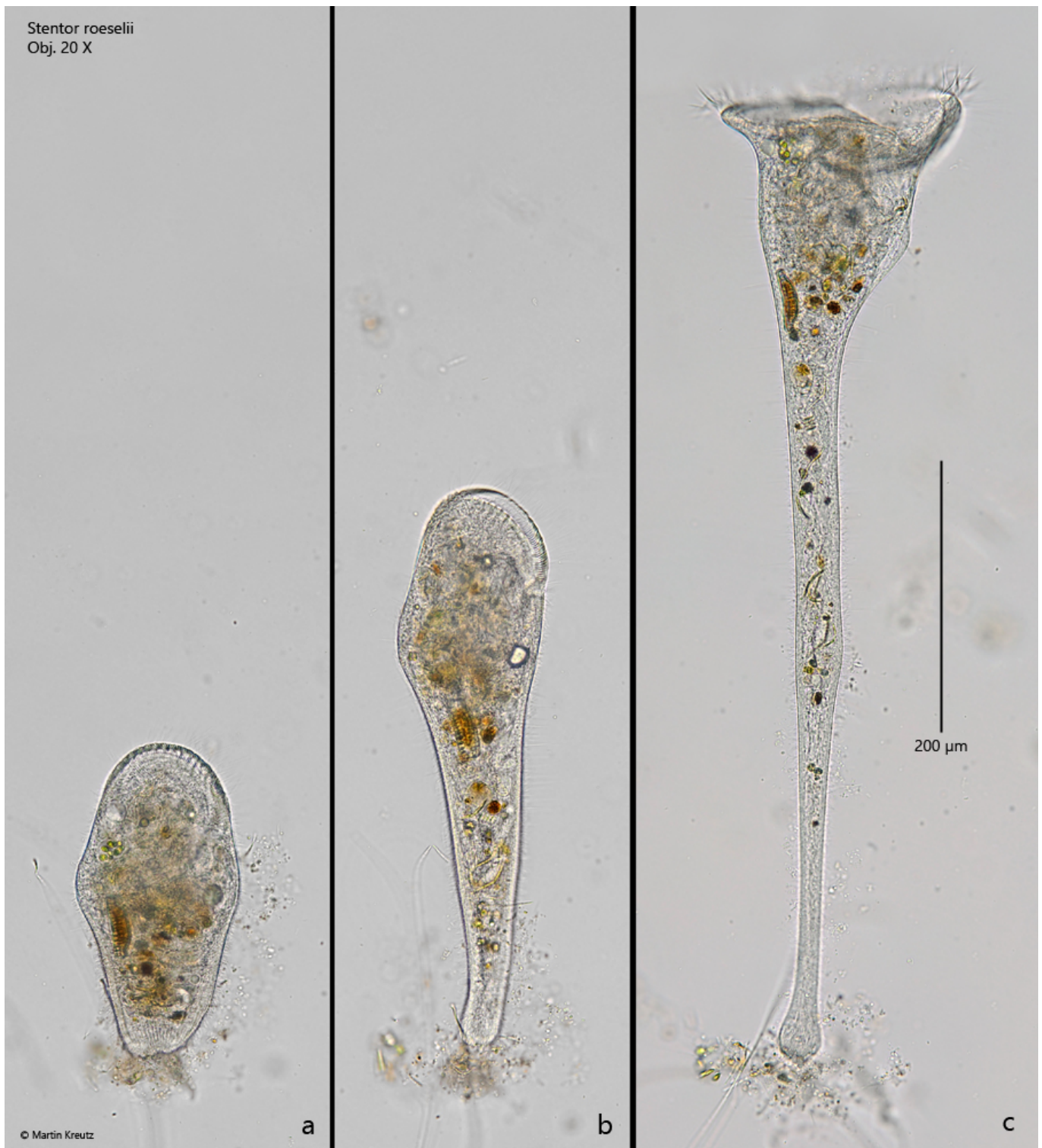


Fig. 1 a-c: *Stentor roeselii*. L = 710 μm (of elongated specimen). A contracted (a) and fully elongated specimen in brightfield illumination. Obj. 20 X.

Stentor roeselii
Obj. 20 X



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Fig. 2: *Stentor roeselii*. L = 710 μm . The same specimen as shown in fig. 1 a-c in DIC. Obj. 20 X.

Stentor roeselii
Obj. 40 X



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Fig. 3: *Stentor roeselii*. L = 730 μm . A slightly squashed specimen. Note the vermiform macronucleus (Ma) arranged longitudinally in the cell. Obj. 40 X.

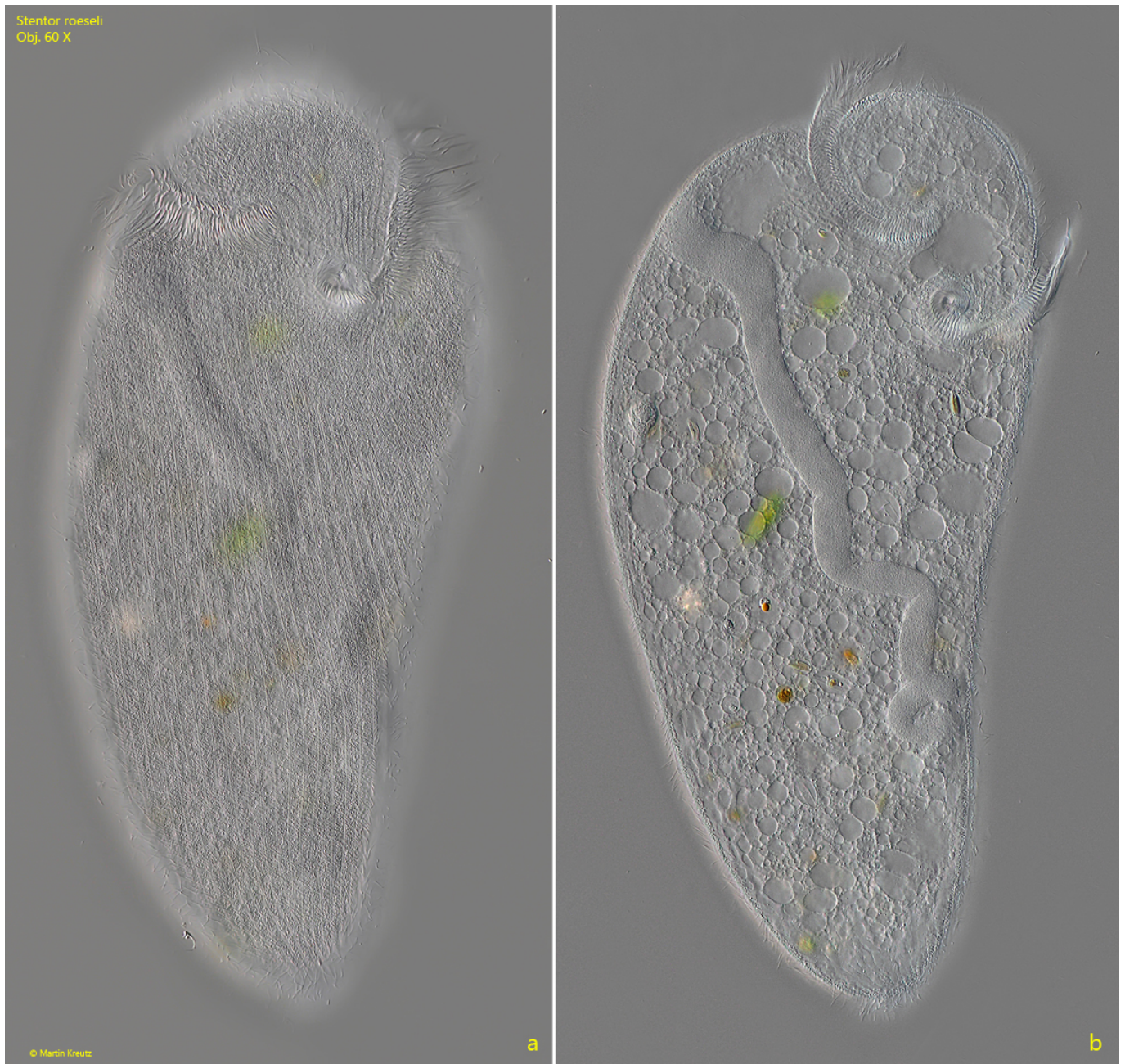


Fig. 4 a-b: *Stentor roeselii*. Focal plane on the pellicle with striation of colorless granules (a) and on the vermiform macronucleus (b, Ma) in a slightly squashed specimen. Obj. 60 X.



Fig. 5: *Stentor roeselii*. The vermiform macronucleus (Ma) in a strongly squashed specimen. Two micronuclei (Mi) are in the focal plane. Obj. 100 X.