

Macromonas mobilis

(Lauterborn, 1915) Utermöhl & Koppe, 1923

Most likely ID: n.a.

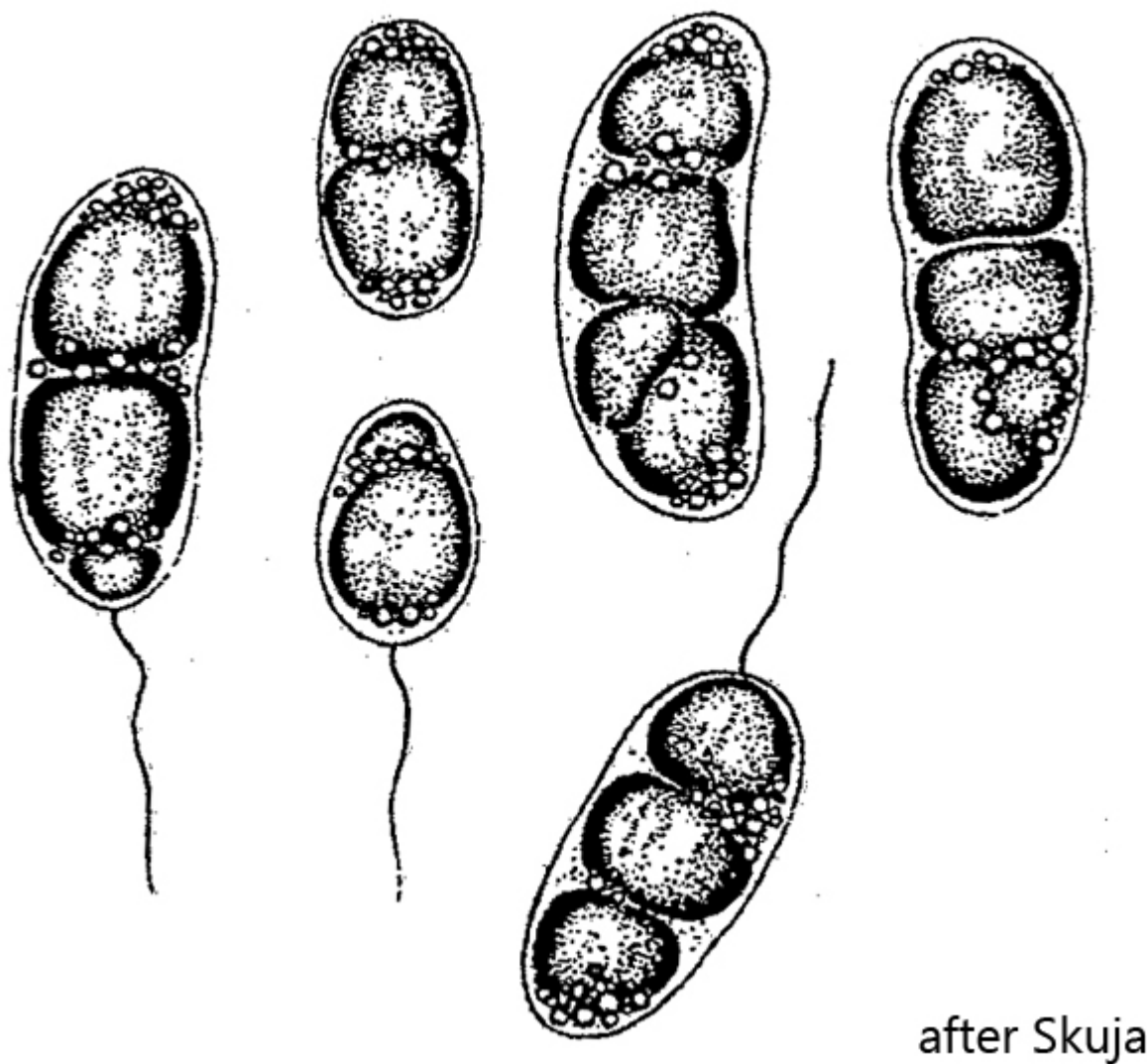
Synonym: n.a.

Sampling location: [Simmelried](#)

Phylogenetic tree: [Macromonas mobilis](#)

Diagnosis:

- length 12 -30 µm, width 8 – 14 µm
- oval to oblong, sometimes slightly curved
- 1-4 large sulphur globules and many tiny globules
- one polar flagellum
- fast swimming, flagellum pushed the cell



Macromonas mobilis

I found this large sulphur bacterium in the main pond of [Simmelried](#) in February 2005 and January 2009. The main pond is normally not accessible. However, in winter 2005 and 2009 the pond and the surrounding mud zone were frozen. So I could access the ice cover and take samples through a hole. In these samples I found *Macromonas mobilis*. In the other ponds of [Simmelried](#) I could not find this sulphur bacterium, although they also have a thick mud layer at the bottom.

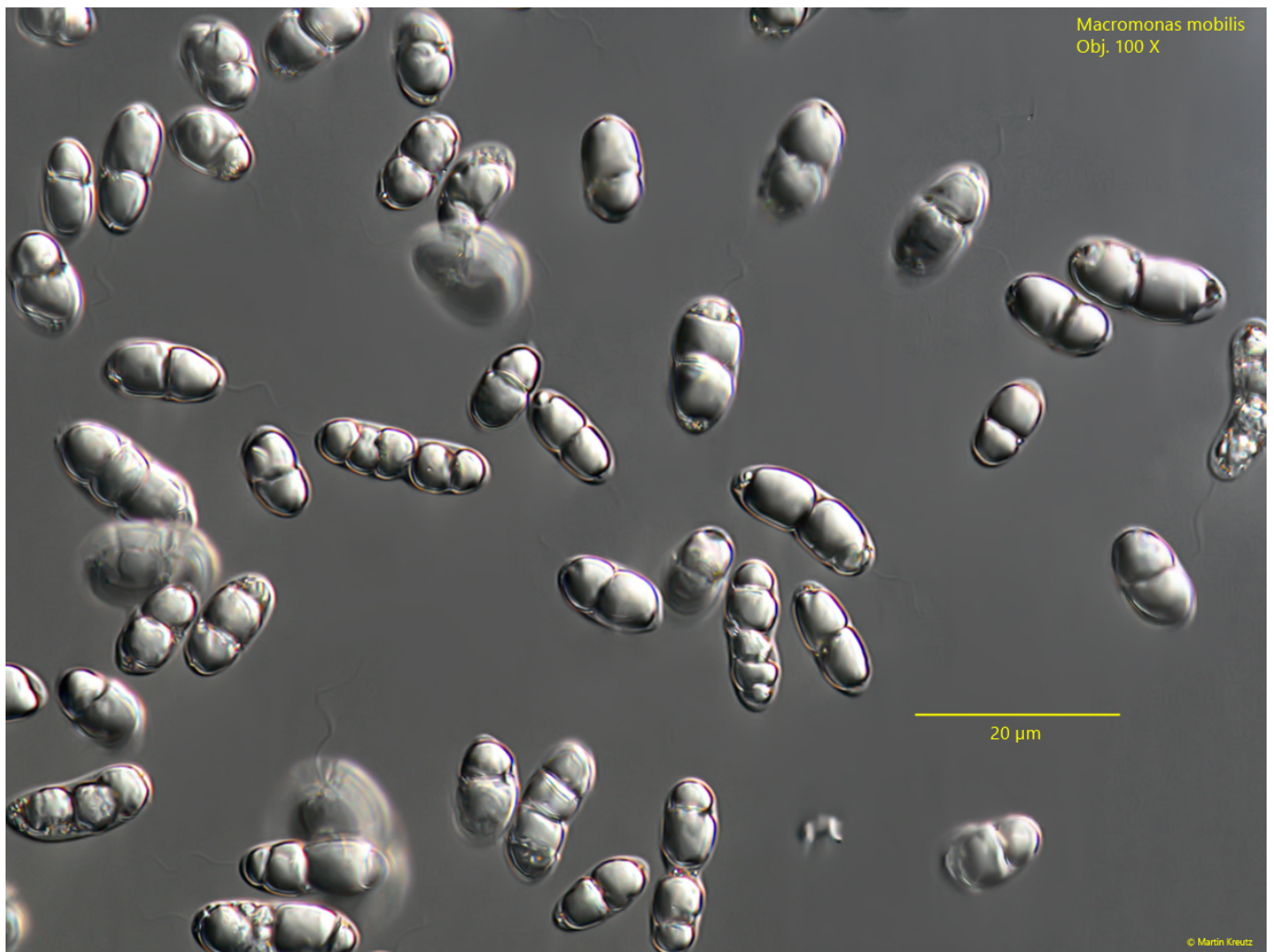
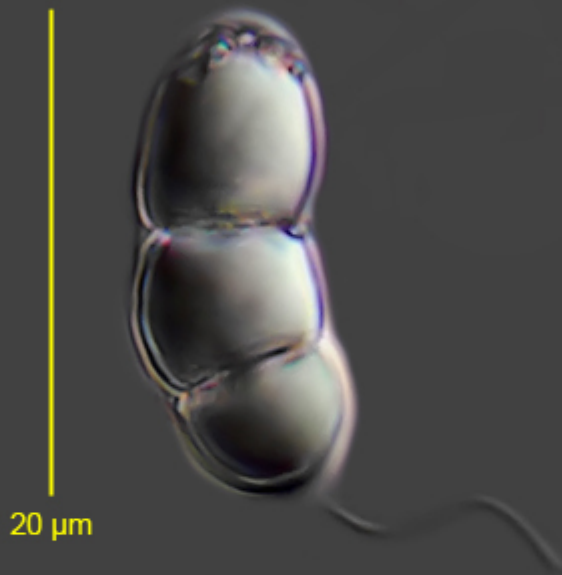


Fig. 1: *Macromonas mobilis*. Overview of a mass development. Note the polar flagellum of the specimens. Obj. 100 X.

Macromonas mobilis
Obj. 100 X



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Fig. 2: *Macromonas mobilis*. $L = 20\ \mu\text{m}$. A freely swimming specimen. The cell contains three large sulphur globules. Obj. 100 X.