

## ***Microgromia haeckeliana* de Saedeleer, 1934**

**Most likely ID:** n.a.

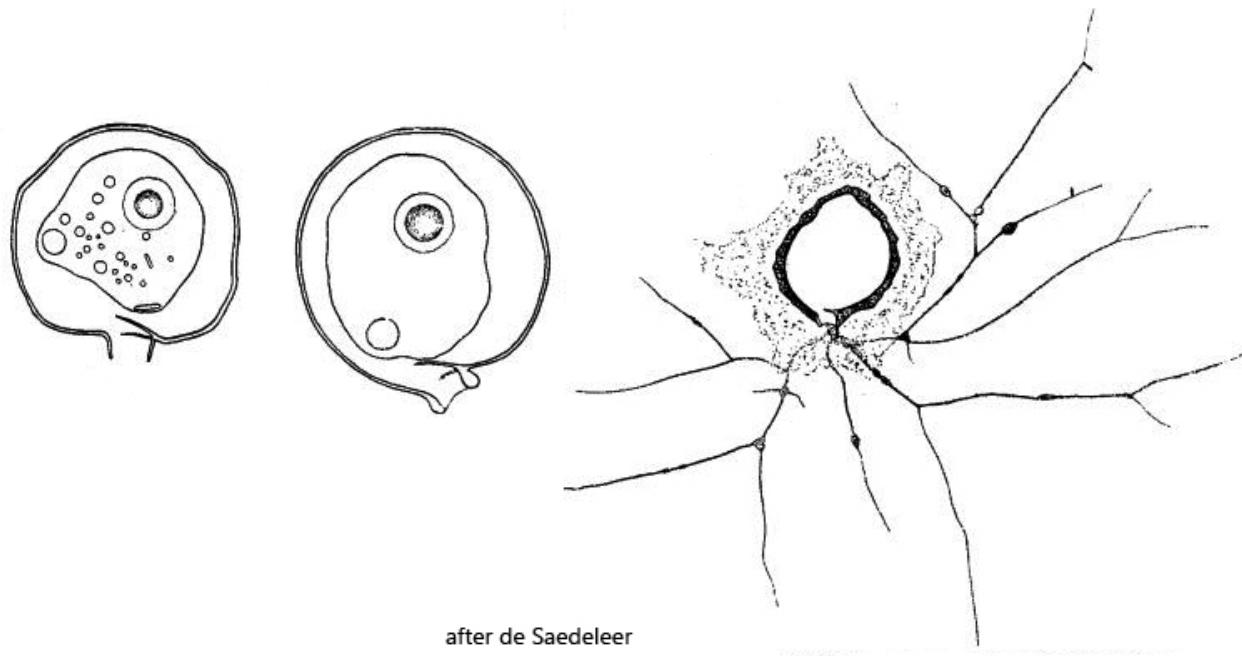
**Synonym:** n.a.

**Sampling location:** [Simmelried](#)

**Phylogenetic tree:** [\*Microgromia haeckeliana\*](#)

**Diagnosis:**

- shell retort-shaped, outline circular
- length of shell 11 – 17  $\mu\text{m}$
- shell hyaline and thin in young specimens
- shell brownish with and thick layer of iron precipitation on older specimens
- short neck, perpendicular or obliquely oriented to shell outline
- neck with a septum, sometimes two septa
- protoplast fills the shell only partially
- nucleus central with a spherical nucleolus
- contractile vacuole near neck
- granuloreticulopodia very thin, anastomosing, arising from a peduncle



### *Microgromia haeckeliana*

*Microgromia haeckeliana* is the most common species of the genus *Microgromia* in [Simmelried](#). It occurs there frequently and regularly. As with almost all other small testate amoebae, the individuals are not found directly in the samples because they are often stuck in detritus flocs. However, if an aliquot of the sample is transferred into Petri dish and some [floating coverslips](#) are placed on the surface, *Microgromia haeckeliana* (and many other testate amoebae) will settle on it after only a few days.

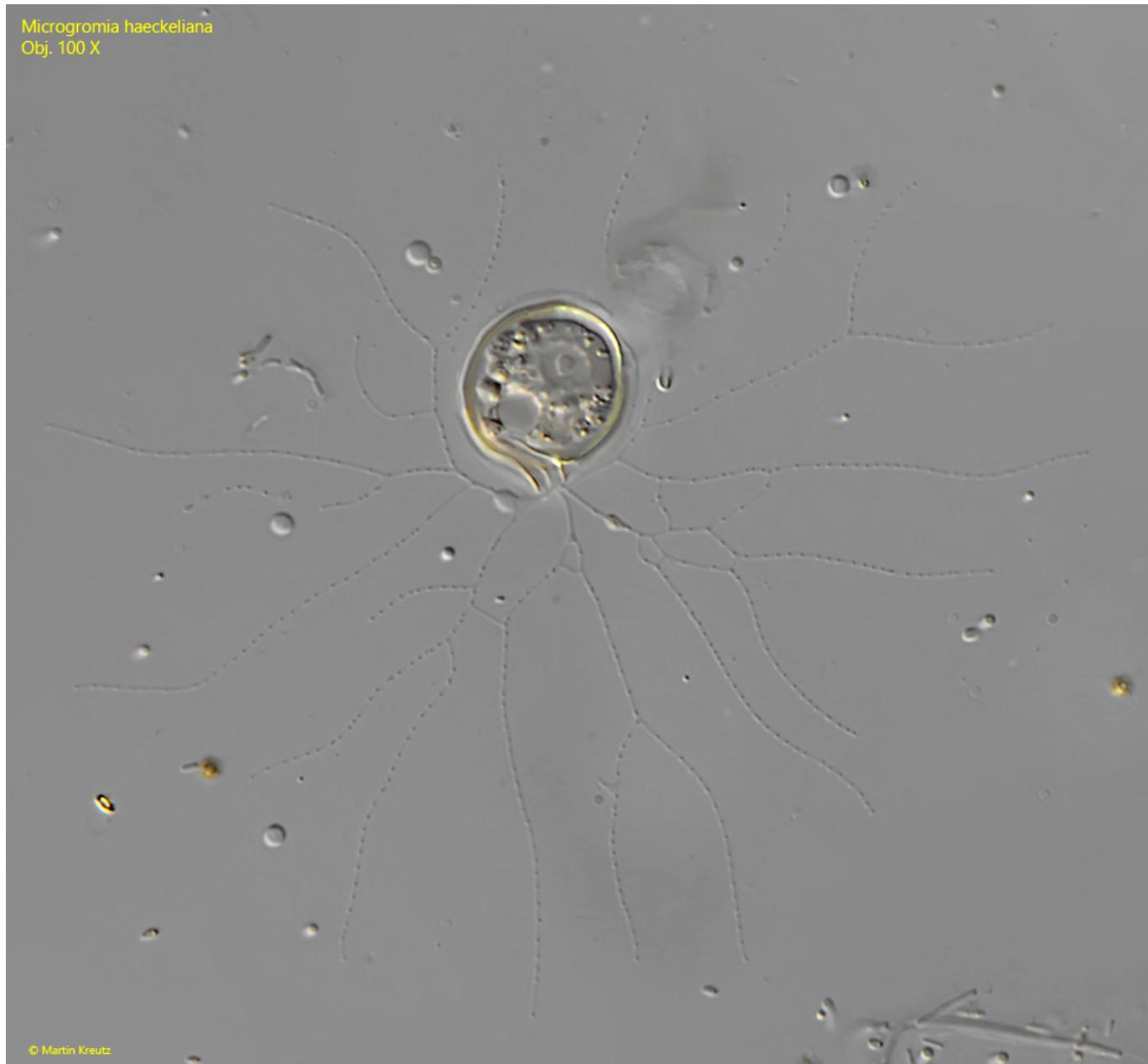
*Microgromia haeckeliana* has a septum at the base of the neck, like all other *Microgromia* species. The short neck of *Microgromia haeckeliana* is oriented in a straight or oblique way to the shell and sometimes it is thickened at the distal margin (s. figs. 4 and 5). Although de Sadeleer drew and described specimens with two septa (s. drawings above), I could only observe specimens with one septum in my population. Another characteristic peculiarity of *Microgromia haeckeliana* is the accumulation of iron precipitates on the shell (iron oxide and iron hydroxide). This causes the shells to turn more and more orange or brown with age (s. fig. 7). In extreme cases the layer of iron precipitates can be so thick that the neck disappears in it (s. fig. 8).

Microgromia haeckeliana  
Obj. 100 X

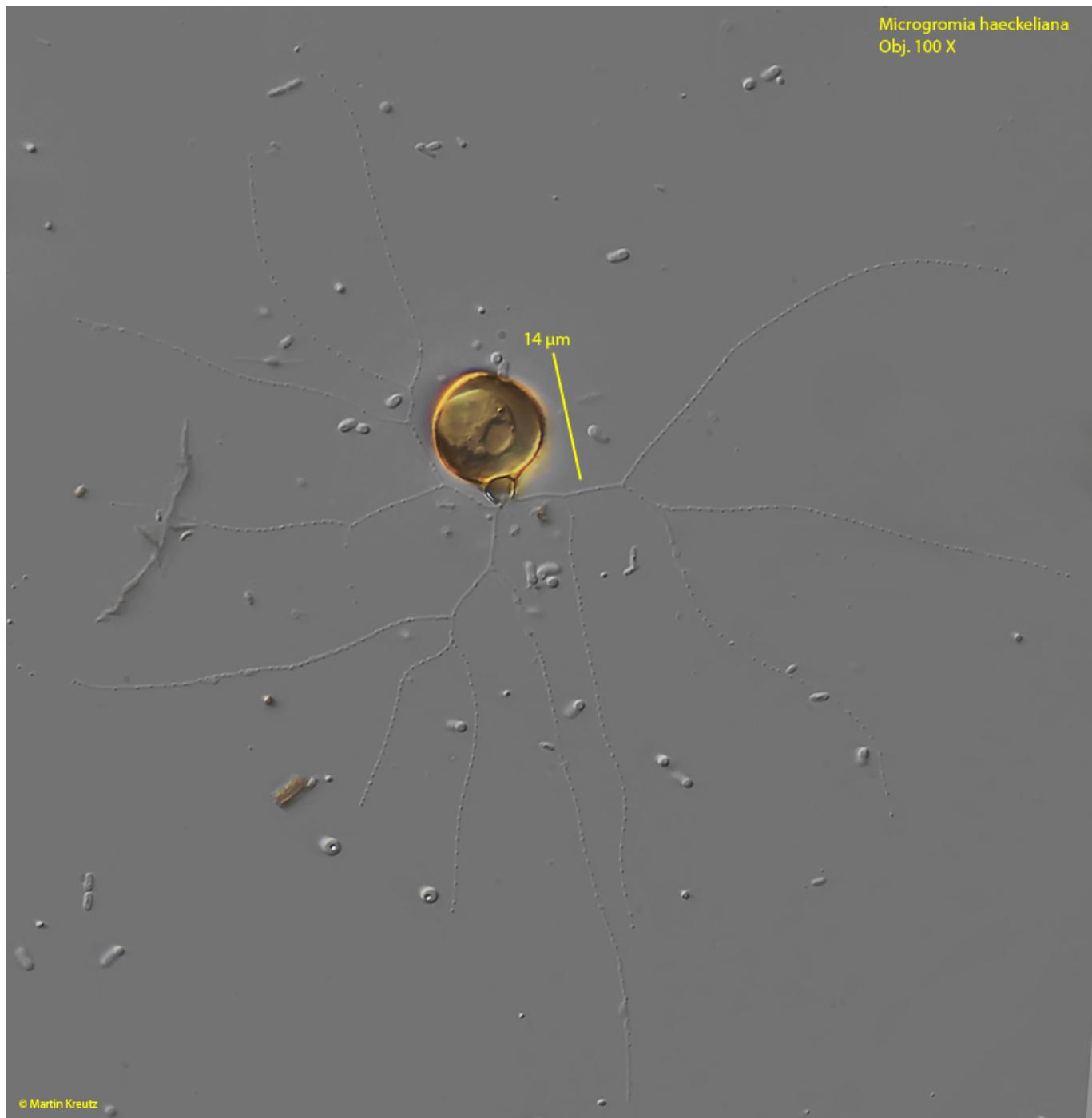


**Fig. 1:** *Microgromia haeckeliana*. L = 14  $\mu$ m. A fully expanded specimen. Note the

widely branched granuloreticulopodia. Obj. 100 X.



**Fig. 2:** *Microgromia haeckeliana*. L = 18  $\mu$ m. A second fully expanded specimen. Obj. 100 X.



**Fig. 3:** *Microgromia haeckeliana*. A third fully expanded specimen. Obj. 100 X.

*Microgromia haeckeliana*  
Obj. 100 X

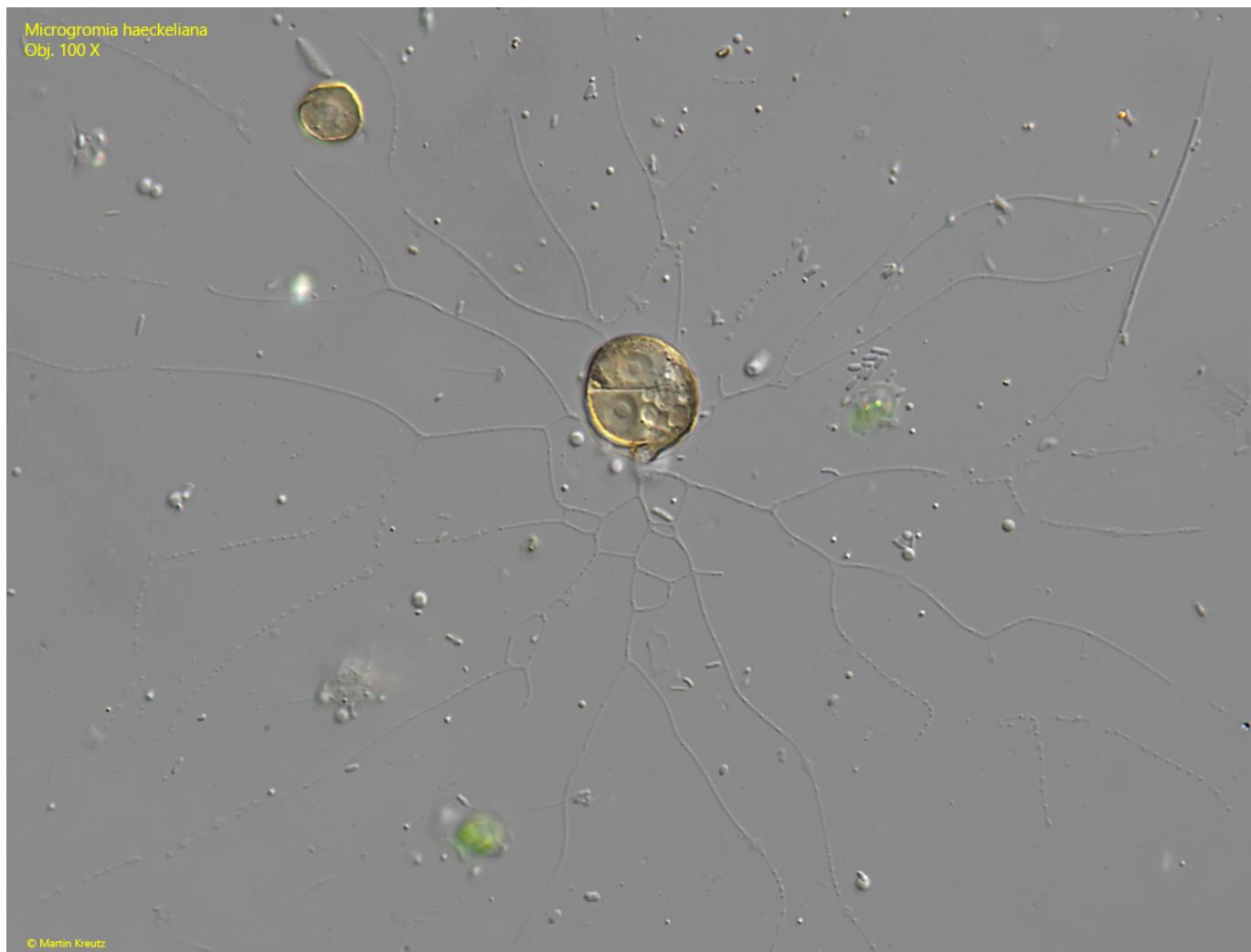


**Fig. 4:** *Microgromia haeckeliana*. A specimen with a clearly visible septum (SE). Note that the protoplast fills the shell only partially. CV = contractile vacuole, NE = neck, Nu = nucleus. Obj. 100 X.

*Microgromia haeckeliana*  
Obj. 100 X



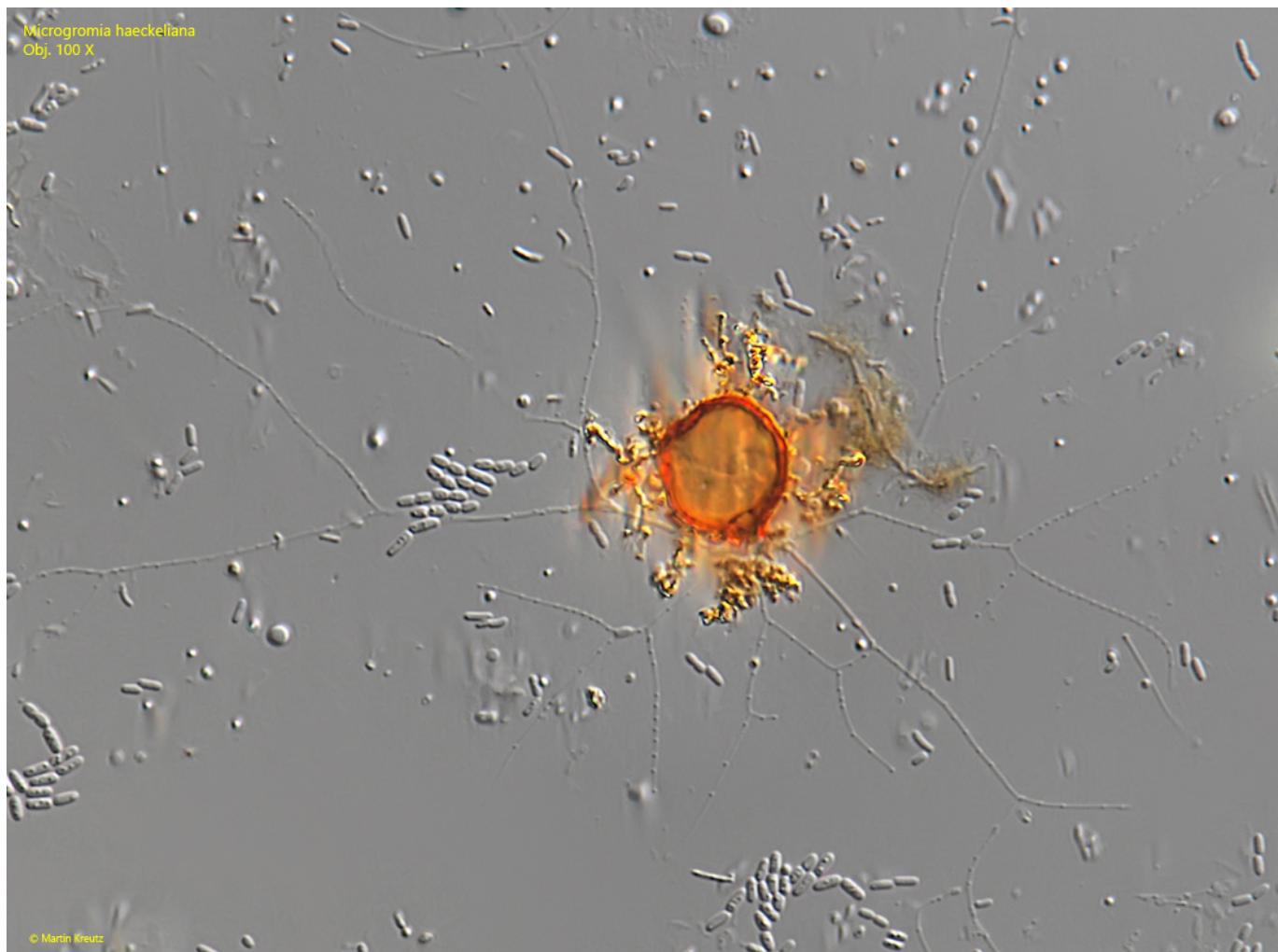
**Fig. 5:** *Microgromia haeckeliana*. An empty shell with a clearly visible septum (SE). NE = neck. Obj. 100 X.



**Fig. 6:** *Microgromia haeckeliana*. L = 16  $\mu\text{m}$ . A shell with two specimens (two nuclei) after cell division. Obj. 100 X.



**Fig. 7:** *Microgromia haeckeliana*. L = 12  $\mu$ m. Two specimens with different degrees of coloration by iron precipitations. Obj. 100 X.



**Fig. 8:** *Microgromia haeckeliana*. L = 14  $\mu\text{m}$ . A specimen what is strongly covered by iron precipitations. Obj. 100 X.