

***Euglena tripteris***  
**(Dujardin) Diesing, 1850**

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

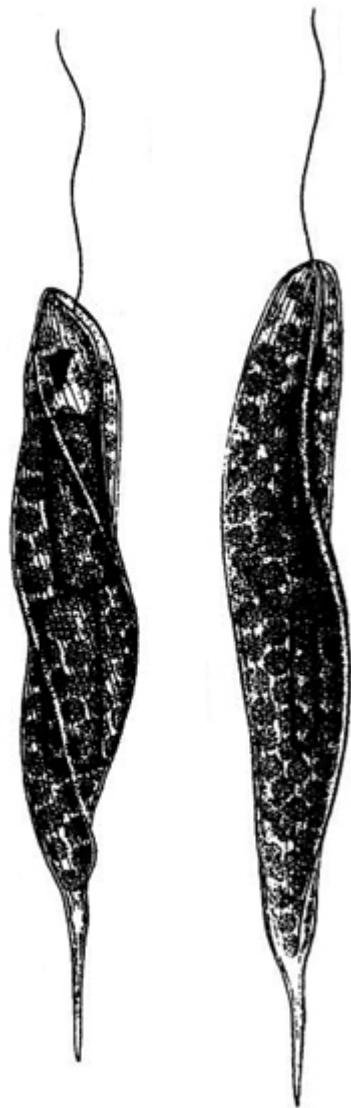
**Synonym:** n.a.

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

**Phylogenetic tree:** [Euglena tripteris](#)

**Diagnosis:**

- body flattened with 3 distinct keels, spirally twisted
- posterior a long tailpiece
- length 62-80 µm
- two large, rod shaped paramylon grains anterior and posterior to nucleus
- eyespot bright red, not granulated
- numerous disc-shaped chloroplasts, light green
- pyrenoids absent
- striation of pellicle almost parallel to longitudinal body axis
- flagellum about one half of body length

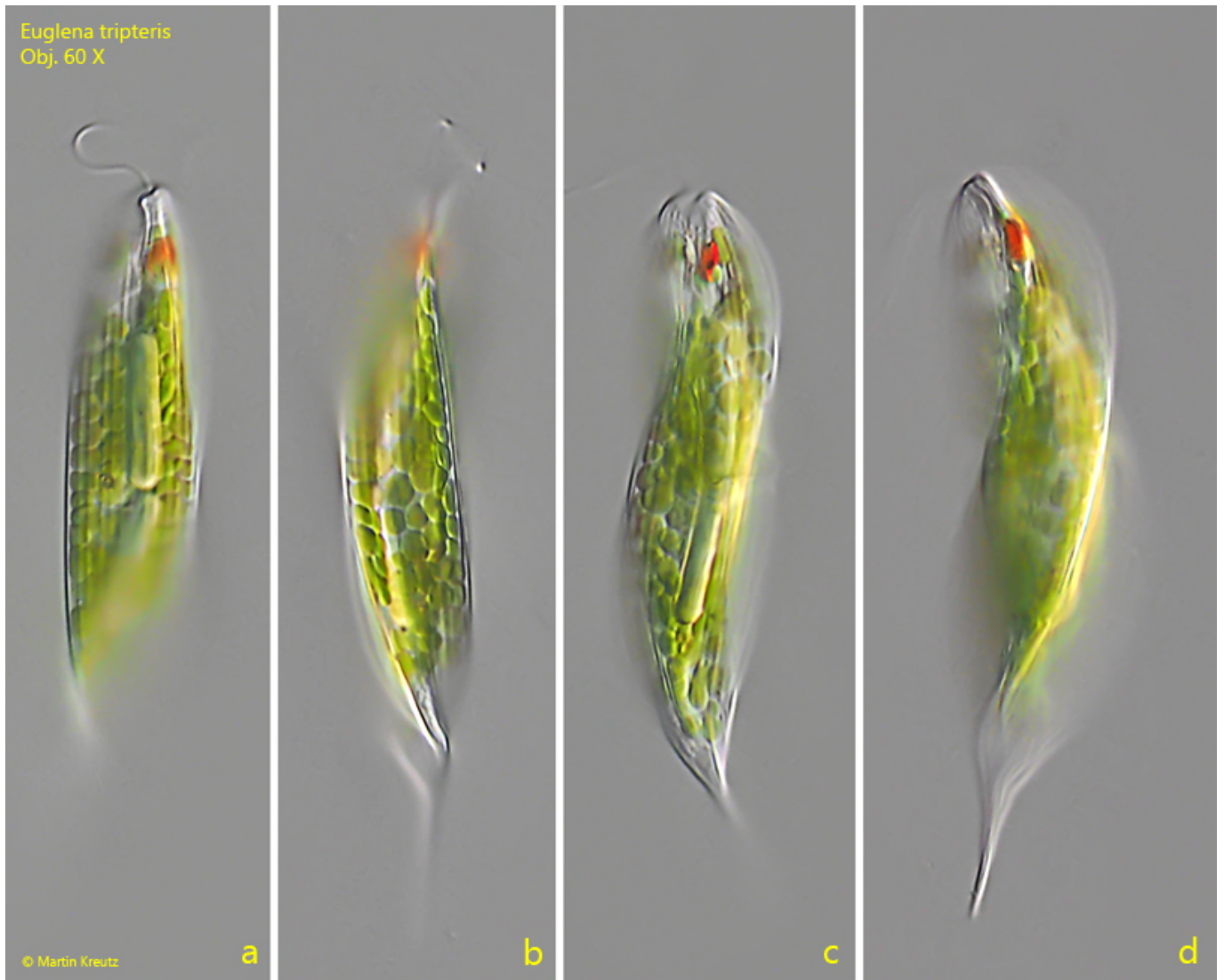


after Skuja

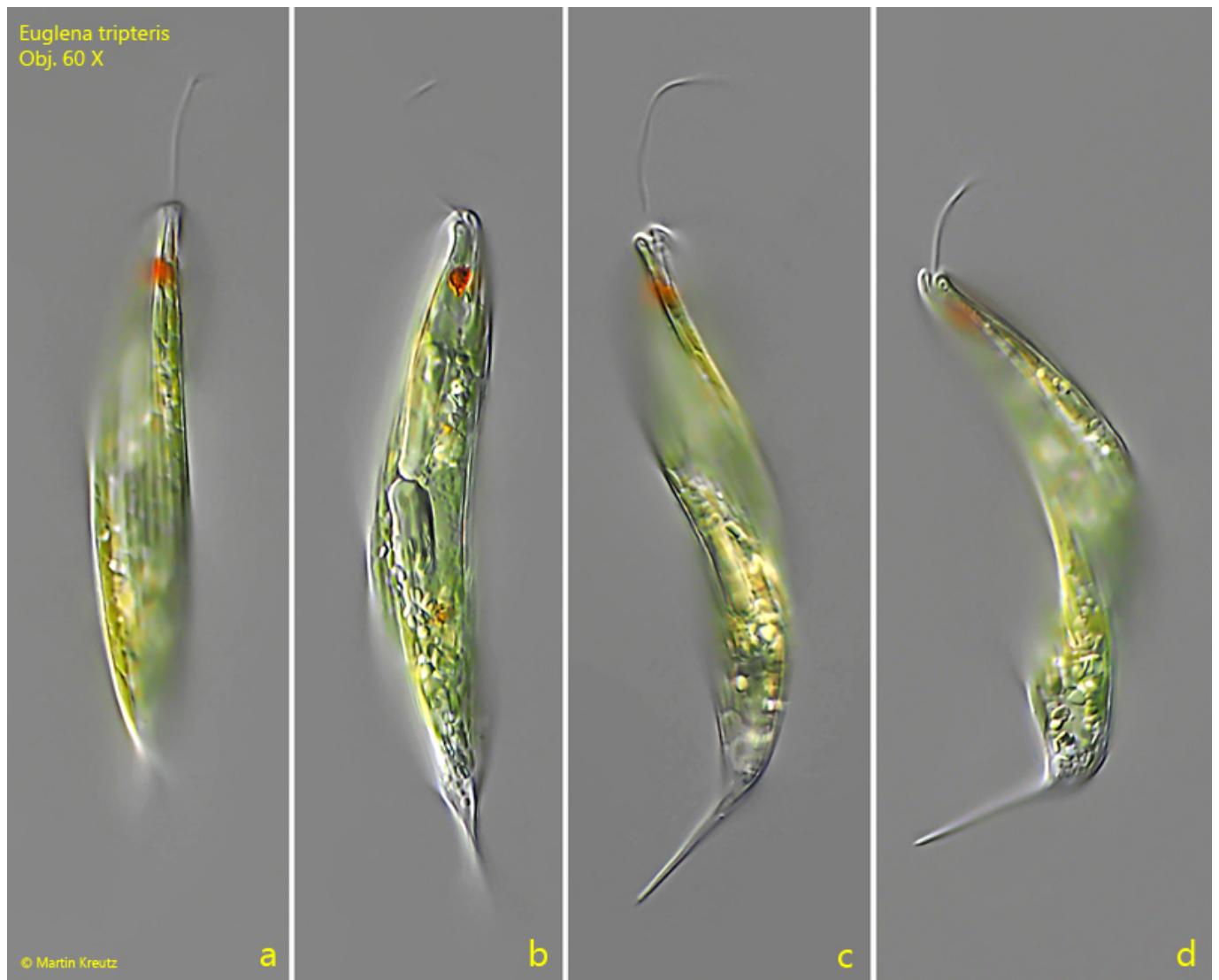
*Euglena tripteris*

I find *Euglena tripteris* rarely but regularly between floating plants in the [Simmelried](#). I have not yet found this species in my other sampling sites.

*Euglena tripteris* is only slightly metabolic and usually only bends its body in a C-shape (s. fig. 2 d). When swimming, it usually adopts the elongated body shape. Due to the three keels, the cell looks trigonal in apical view. There are always two large, oblong-shaped paramylon grains in front of and behind the central nucleus (s. fig. 3 c). In addition, there are many smaller paramylon grains, which are approximately rectangular or sometimes irregularly shaped (s. fig. 4 a). The numerous chloroplasts are disc-shaped and usually light green (s. fig. 4 a). I have only rarely found more intensely colored specimens. The striation of the pellicle runs approximately parallel to the longitudinal body axis and is not spirally twisted (s. fig. 4 b).



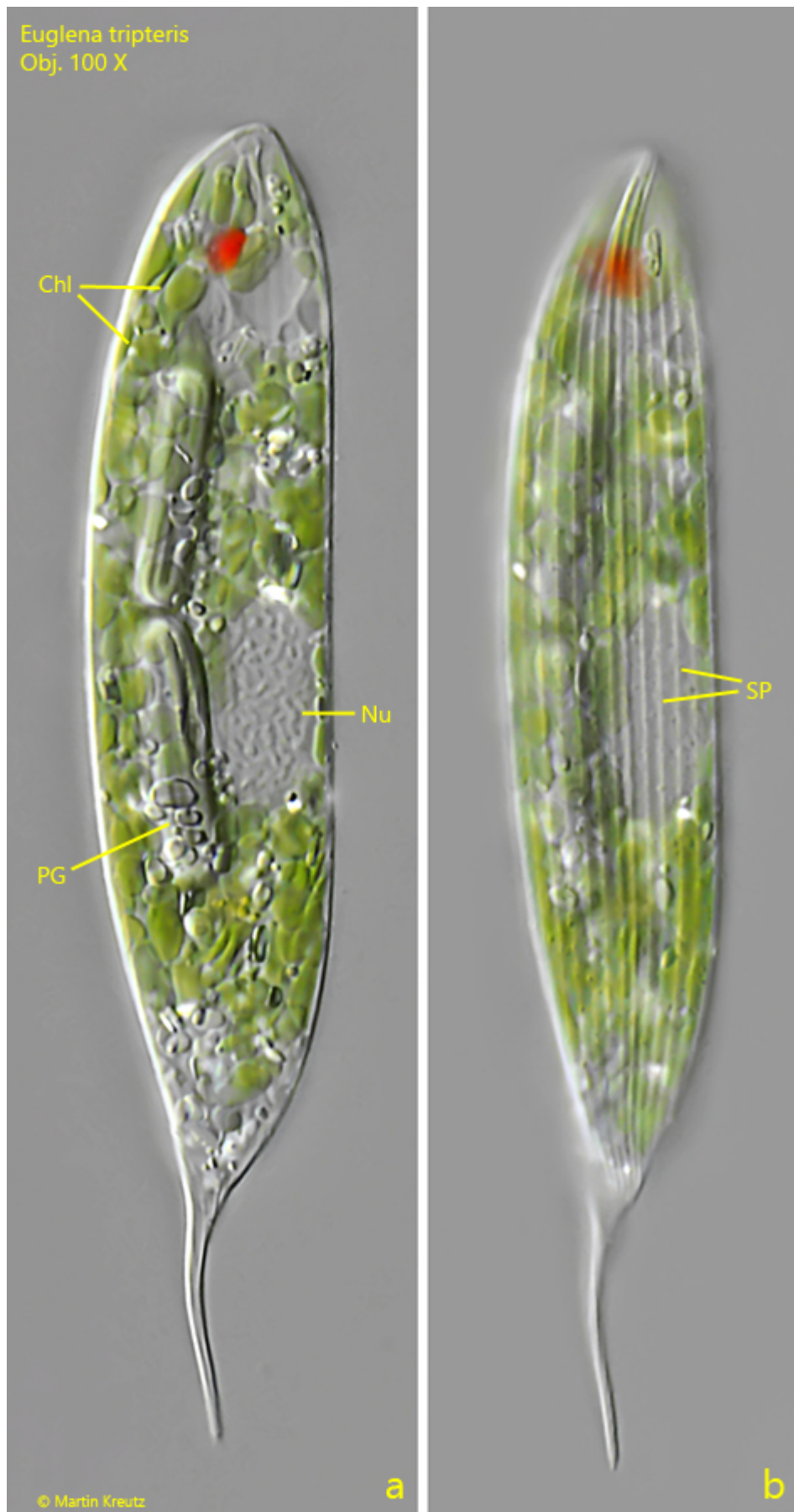
**Fig. 1 a-d:** *Euglena tripteris*. L = 73  $\mu$ m. A freely swimming specimen. Note the distinct longitudinal keels of the body. Obj. 60 X.



**Fig. 2 a-d:** *Euglena tripteris*. L = 79  $\mu$ m. A second freely swimming specimen. Obj. 60 X.



**Fig. 3 a-c:** *Euglena tripteris*. L = 80  $\mu$ m. Different focal planes of a slightly squashed specimen. Note the two large paramylon grains (LPG). CV = contractile vacuole, HG = haematochrome granules. Obj. 100 X.



**Fig. 4 a-b:** *Euglena tripteris*. L = 80  $\mu$ m. Two focal planes of the squashed specimen as shown in fig. 3 a-c. Chl = disc-shaped chloroplasts, Nu = nucleus, PG = small paramylon

grains, SP = striation of the pellicle. Obj. 100 X.