

## ***Chloropedia plana* Pascher, 1930**

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

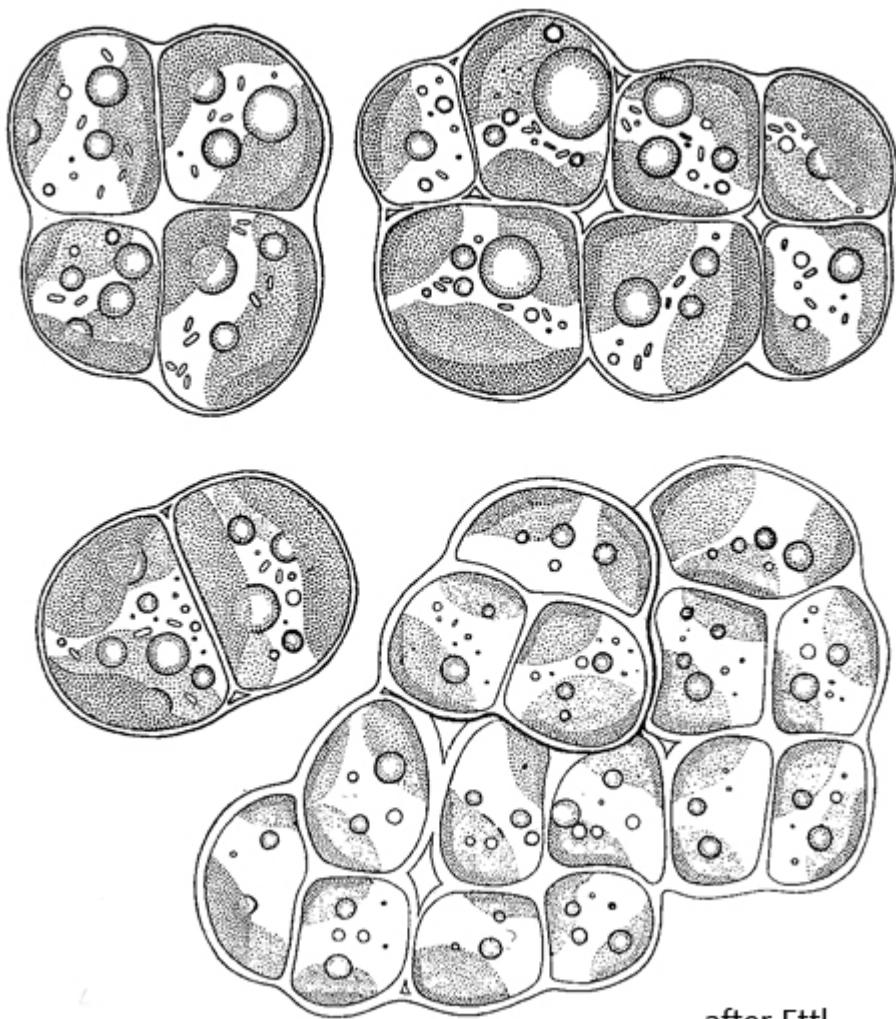
**Synonym:** n.a.

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

**Phylogenetic tree:** [Chloropedia plana](#)

**Diagnosis:**

- cells 6–9 µm, irregular oval or irregular quadrangular
- two chloroplasts per cell of different size, trough-shaped, parietal
- chloroplasts with a distinctly yellowish-orange coloration
- cell wall distinct, sometimes mucilaginous
- cells with orange or reddish oil droplets
- colonies flat, irregularly shaped, only few cells
- colonies easily disintegrate into sub-colonies
- growing on *Sphagnum* or *Utricularia*

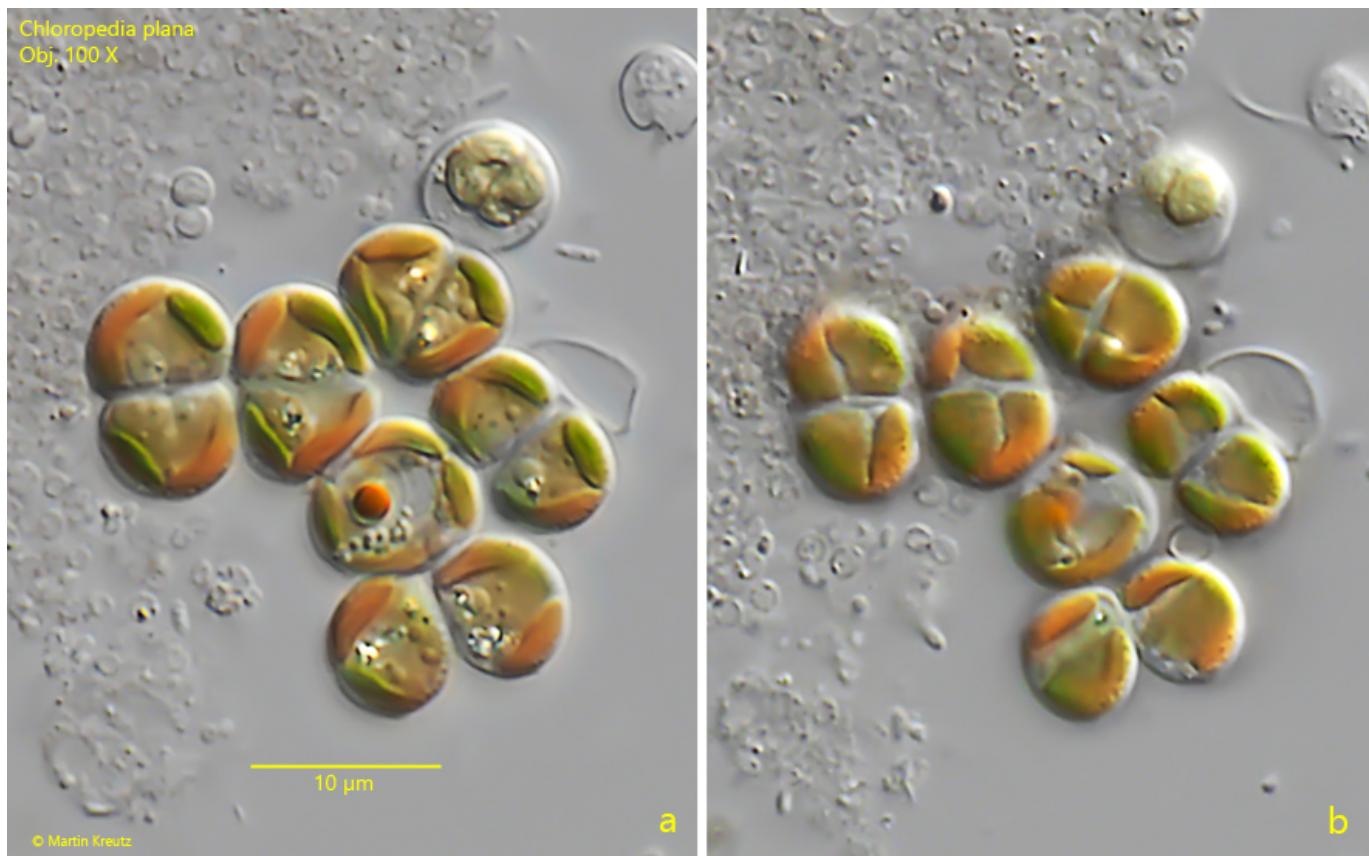


after Ettl

### *Chloropedia plana*

So far I have found the xanthophyte alga *Chloropedia plana* exclusively in the [Simmelried](#) and this only very rarely. This fits with the description by Ettl (1978) that this alga is not common.

*Chloropedia plana* can be recognized by the irregular shape of the colonies and the likewise irregularly shaped cells, which contain conspicuously coloured chloroplasts. In DIC they appear orange and yellow-green, sometimes also olive-green, which is why it can be mistaken for a chrysophyte species. The cells often contain colored oil droplets, have no pyrenoid and no starch grains, as is characteristic of xanthophyte algae.



**Fig. 1 a-b:** *Chloropedia plana*. L = 6.2–8.0  $\mu\text{m}$  (of cells). Two focal planes of a slightly squashed colony of 6 cells found in October 2023. Some of them in the process of cell division. Each cell has two chloroplasts of different size (b). Obj. 100 X.

*Chloropedia plana*  
Obj. 100 X



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**Fig. 2:** *Chloropedia plana*. L = 7.2-8.4  $\mu\text{m}$  (of cells). A colony of 7 cells found in May 2005. The colony is enveloped in a distinct cell wall. Obj. 100 X.