

***Penium polymorphum* (Perty) Perty, 1852**

Most likely ID: n.a.

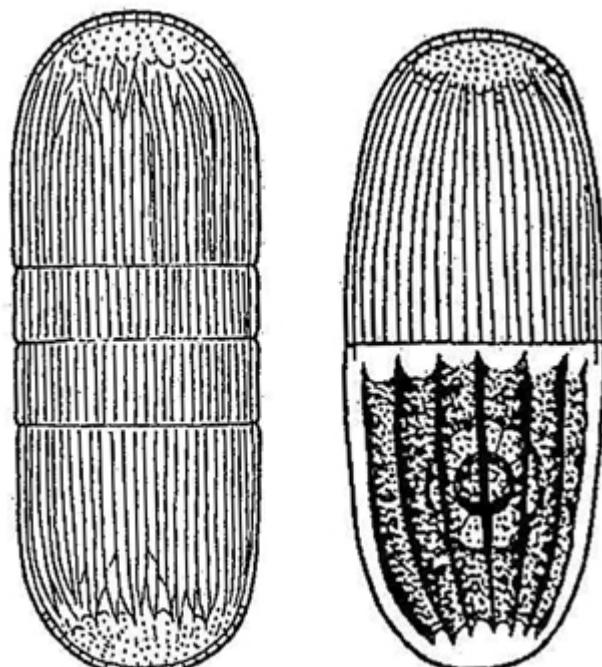
Synonym: n.a.

Sampling location: [Sima Moor \(Austria\)](#)

Phylogenetic tree: [Penium polymorphum](#)

Diagnosis:

- cells cylindrical or ellipsoidal with rounded ends
- length 35–75 µm
- cell wall with longitudinal striae, pass into reticulate pattern at apices
- 1–4 girdle bands
- two stellate chloroplasts with longitudinal ribs and one pyrenoid



after Förster

Penium polymorphum

I found *Penium polymorphum* in July 2017 and in June 2024 in the [Sima Moor \(Austria\)](#). This desmid alga is not present in my local sites.

The cells of *Penium polymorphum* are cylindric-oval with each one stellloid chloroplast per semi-cell. The cell wall shows a characteristic pattern. In the middle an almost parallel longitudinal striation is visible what pass into a reticulate pattern towards the apices (s. fig. 1 c).

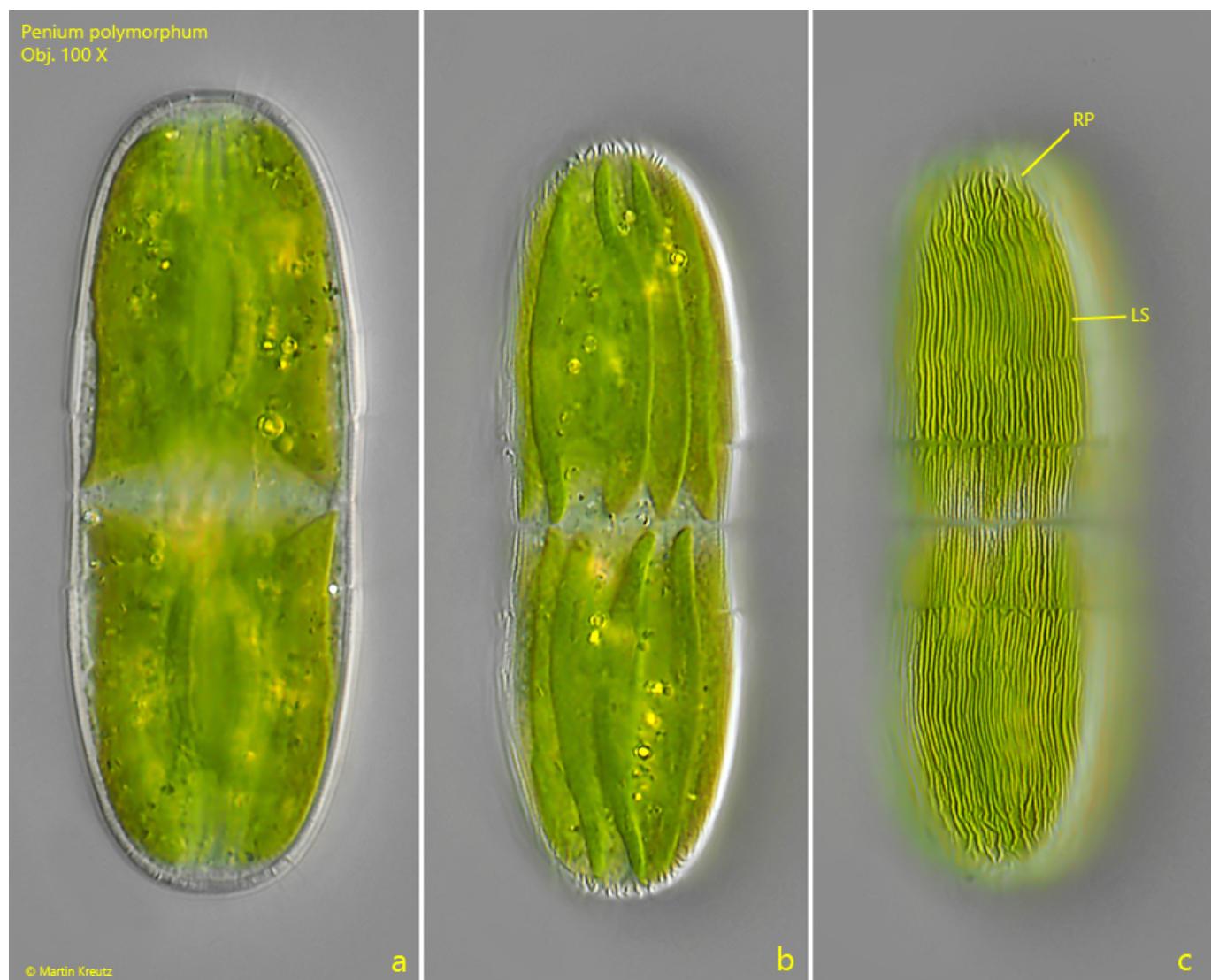


Fig. 1 a-c: *Penium polymorphum*. L = 75 µm. Three focal planes of a specimen found in June 2024 in the [Sima Moor](#). Note the longitudinal striation (LS) of the cell wall which pass into a reticulate pattern (RP) towards the apices. Obj. 100 X.

Penium polymorphum
Obj. 100 X

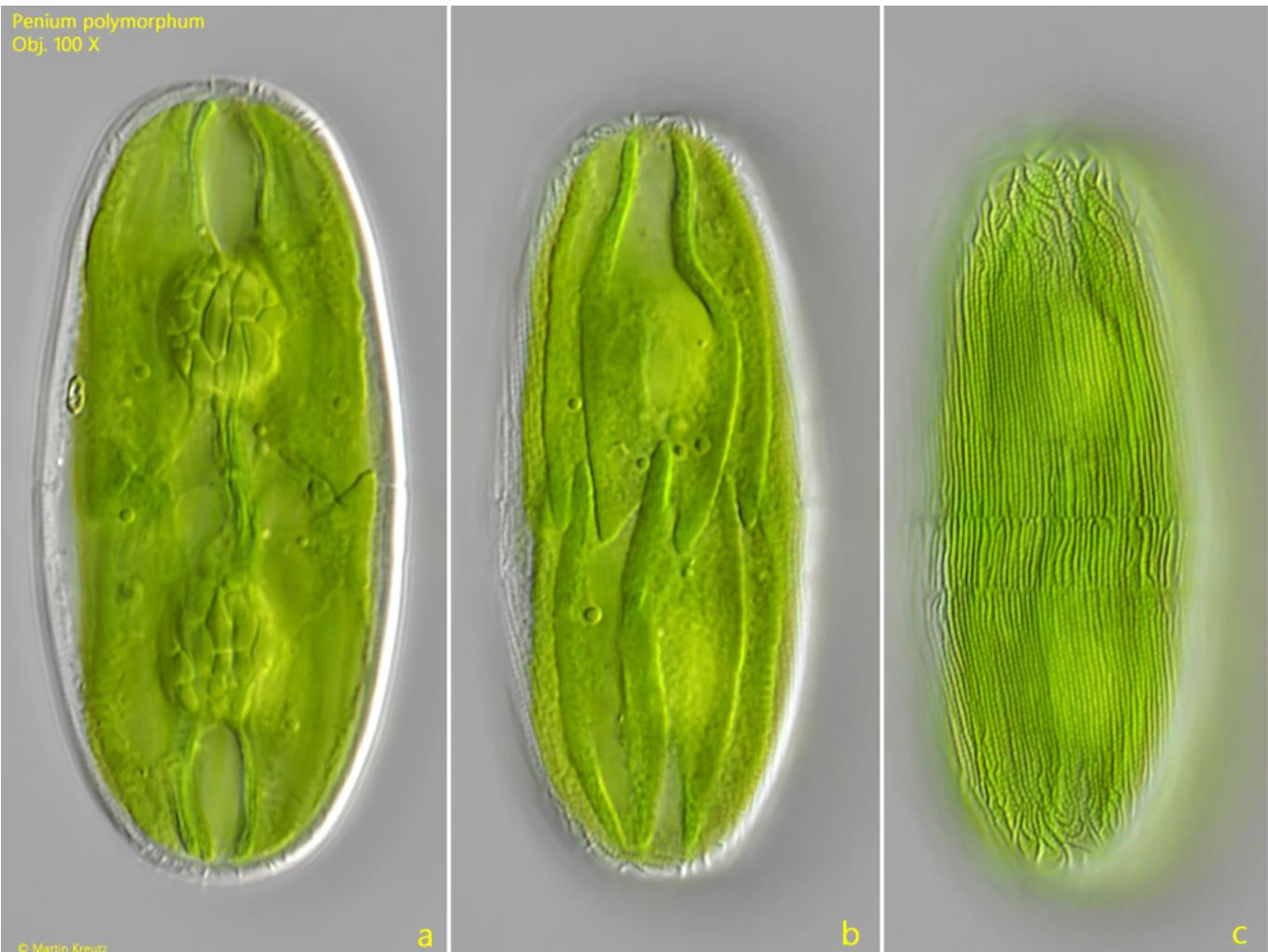


Fig. 2 a-c: *Penium polymorphum*. L = 70 μ m. Three focal planes of a second specimen. Obj. 100 X.