

***Closterium incurvum* Brébisson, 1856**

Most likely ID: n.a.

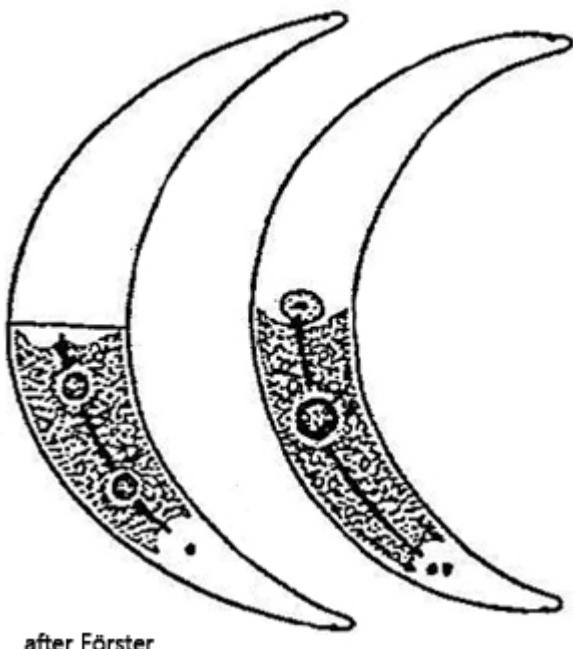
Synonym: n.a.

Sampling location: [Schwemm Moor \(Austria\), Simmelried](#)

Phylogenetic tree: [Closterium incurvum](#)

Diagnosis:

- cell strongly curved, almost a semi-circle
- ventrally concave, without thickening
- apices acutely rounded, with pore
- length 40-80 µm, width 7-12 µm
- cell wall colorless, smooth, without striation
- two chloroplasts, each with 3 longitudinal ridges
- 1-3 pyrenoids per semi-cell, commonly 1-2
- girdle bands absent
- terminal vacuoles with single or few small crystals
- nucleus central



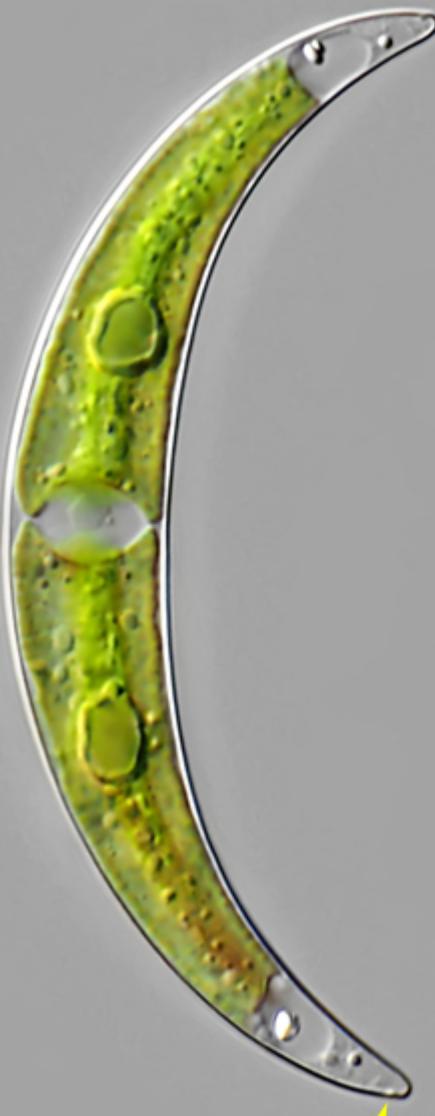
Closterium incurvum

I find *Closterium incurvum* quite frequently in the [Simmelried](#), but always only sporadically. I have not yet been able to find this species in my other sampling sites. The most important distinguishing feature is the small size of less than 80 µm and the strongly curved shape, which can almost form a semi-circle.

In my population there was always only 1 pyrenoid per half cell. I have never found cells with more pyrenoids, although according to Förster (1982) there can be up to 3 pyrenoids per half cell.

The differentiation from the very similar species [Closterium venus](#) is very difficult. The cells of this species are larger (up to 100 µm) and less curved. The semi-cells of [Closterium venus](#) usually contain more than one pyrenoid, but not always. Otherwise the characteristics are identical. Since the cells of my population are strongly curved and have a length of about 55-70 µm, they can be assigned to *Closterium incurvum*.

Cladophora gracilis
Obj. 100 X



PO

a

b

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Fig. 1 a-b: *Cladophora gracilis*. L = 64 μ m. Two focal planes of a specimen in DIC. Note the small pores (PO) in the apices and the smooth cell wall without striation (b). Obj. 100 X.

Closterium incurvum
Obj. 100 X



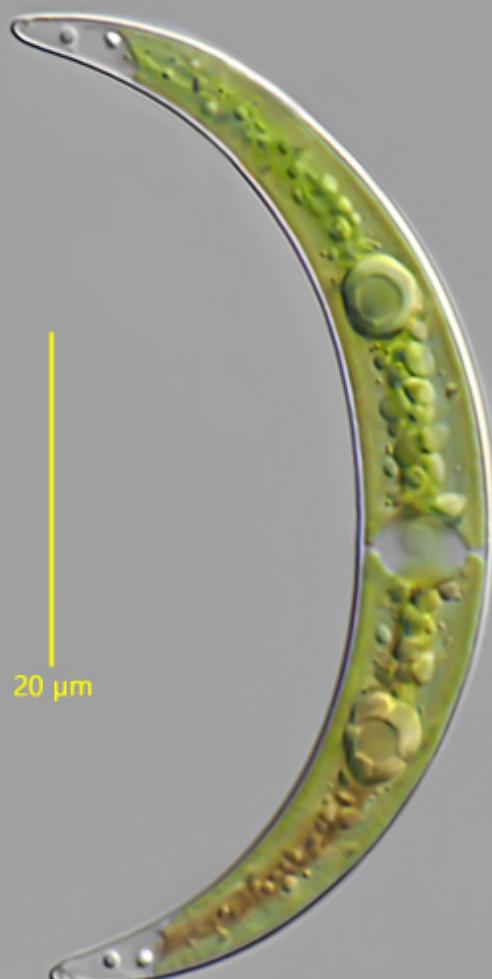
a



b

Fig. 2 a-b: *Closterium incurvum*. L = 64 μ m. The same specimen as shown in fig. 1 a-b in brightfield illumination. Obj. 100 X.

Closterium incurvum
Obj. 100 X



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a



b

Fig. 3 a-b: *Closterium incurvum*. L = 58 µm. A second specimen found in the [Schwemmoor](#) in July 2025. Obj. 100 X.