

## ***Cyclidium centrale* Kahl, 1931**

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

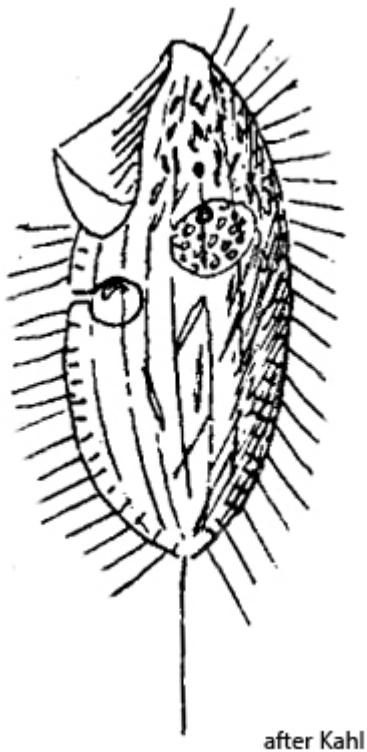
**Synonym:** n.a.

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

**Phylogenetic tree:** [\*Cyclidium centrale\*](#)

**Diagnosis:**

- body slender ovoid, slightly flattened
- distinct frontal plate
- length commonly 40 µm, sometimes up to 60 µm
- oral apparatus third body length
- about 6 longitudinal rows of cilia
- contractile vacuole central
- extrusomes present
- one caudal cilium, often bent



### *Cyclidium centrale*

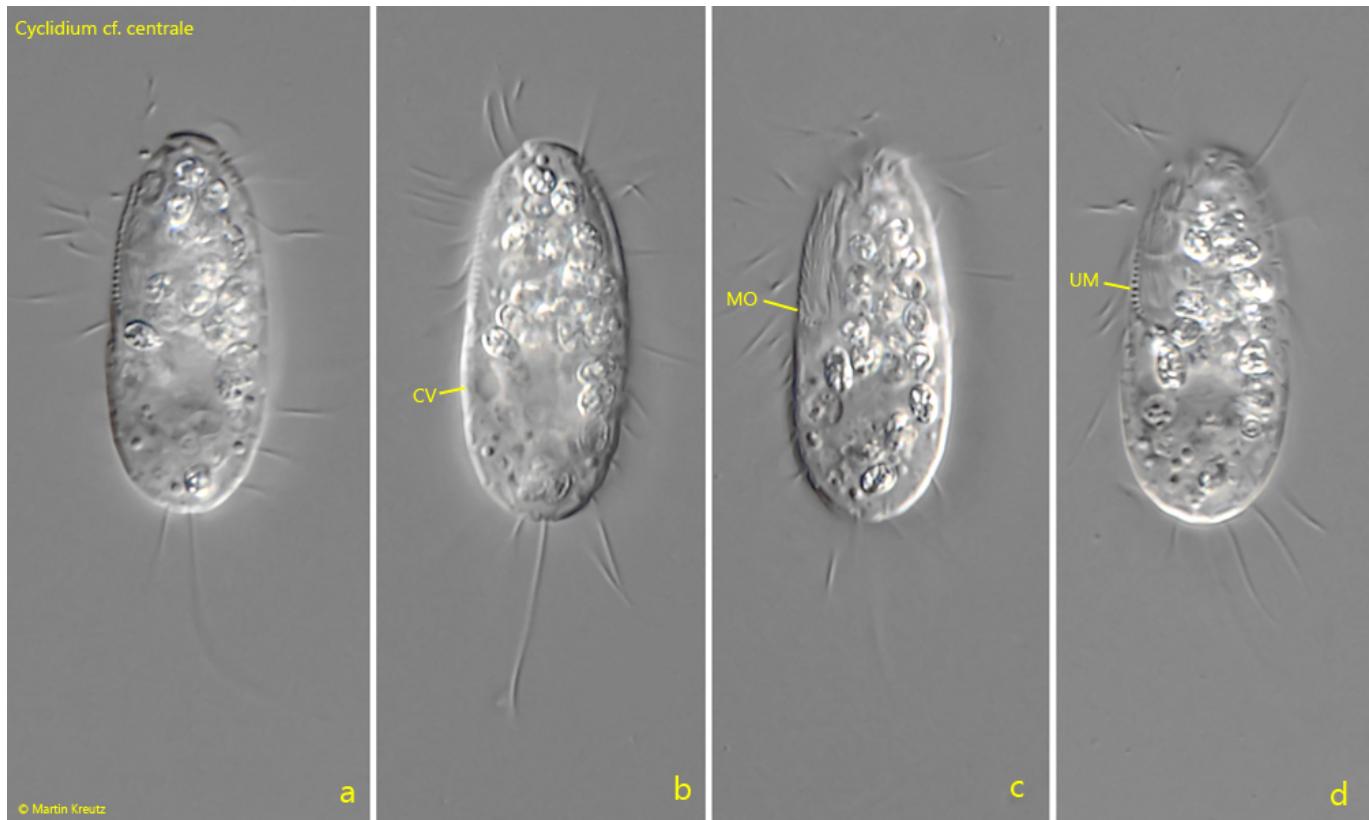
Only a very brief description and a drawing of *Cyclidium centrale* are available from Kahl (1931). I have not found any further reports on this species. In November 2017, I found a *Cyclidium* species in the [Ulmisried](#) that essentially exhibits all the characteristics of *Cyclidium centrale*. These are particularly the contractile vacuole in the middle of the body, a peristome that takes up about one-third of the body length, and a length of about 40 µm (s. fig. 1 a-b). All these features are fulfilled by the specimen, of which I unfortunately only took a few photos.

In May 2024, I then found another specimen in the [Simmelried](#), which, however, was significantly smaller at 27 µm in length. Furthermore, in this specimen, the peristome extended almost to the middle of the body. The contractile vacuole was located slightly below the cell equator. Therefore, I present this specimen here as *Cyclidium cf. centrale* (s. fig. 2 a-d).

Within the genus *Cyclidium* and the similar genus *Cristigera*, there are very few species with a contractile vacuole in the middle of the body, so the selection of alternative species is very small. *Cyclidium muscicola* is significantly smaller at 20 µm and has a stocky body. *Cyclidium fusiformis* is about 30 µm long and the posterior third of the body is distinctly tapered.



**Fig. 1 a-b:** *Cyclidium centrale*. L = 41  $\mu$ m. Two focal planes of a specimen found in November 2017 in the [Ulmisried](#). Note the centrally located contractile vacuole (CV) and the oral apparatus (OA) in the anterior third. CC = caudal cilium, EX = extrusome, FP = front plate. Obj. 100 X.



**Fig. 2 a-d:** *Cyclidium cf. centrale*. L = 27  $\mu$ m. A specimen found in May 2024 in the [Simmelried](#). The mouth opening (MO) is located near mid-body and the contractile vacuole (CV) is below the cell equator. UM = undulating membrane. Obj. 100 X.