

***Chlamydodon mnemosyne* Ehrenberg, 1835**

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

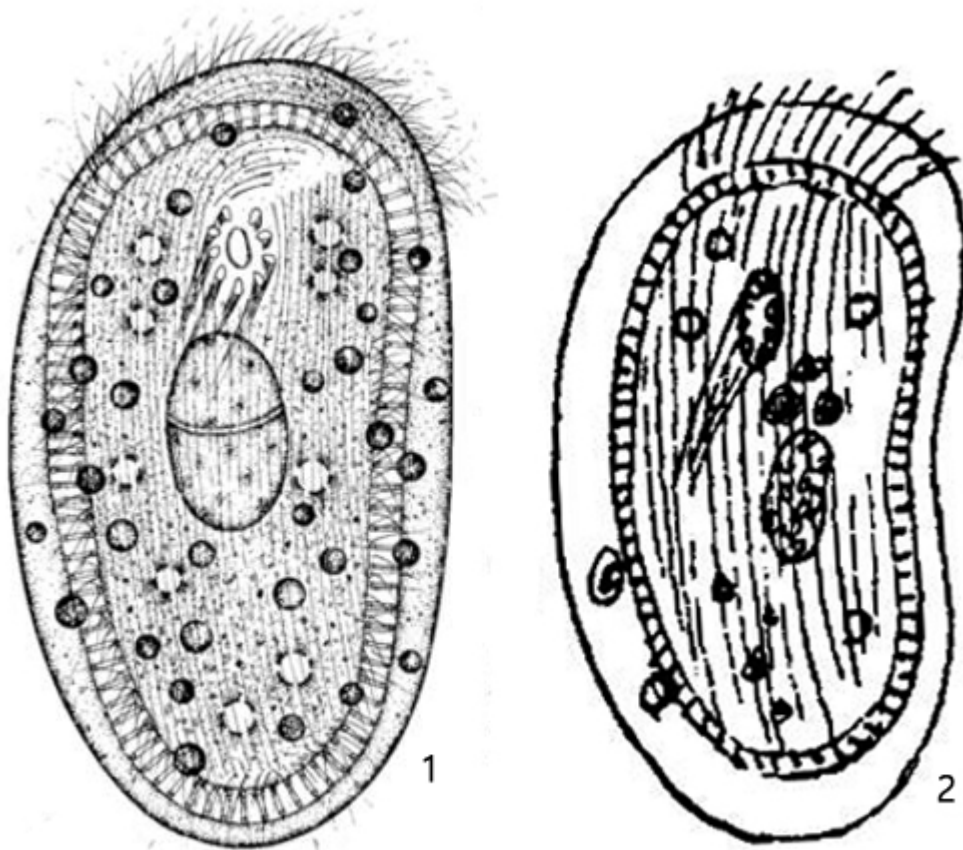
**Synonym:** n.a.

**Sampling location:** Tidal outlet Kloster (Hiddensee)

**Phylogenetic tree:** [Chlamydodon mnemosyne](#)

**Diagnosis:**

- body ellipsoid or slightly reniform, dorso-ventrally flattened
- length 80–90 µm
- anteriorly an orange colored pigment spot, left side
- oral aperture oval
- cytopharyngeal basket consisting of 8–10 rods
- ciliature restricted to ventral side
- macronucleus heteromorous, ovoid, centrally located
- cross-striated band without interruptions
- several contractile vacuoles scattered throughout cytoplasm
- yellowish or orange vesicles scattered in cytoplasm



1 = after Gong et al.  
2 = after Kahl

### *Chlamydodon mnemosyne*

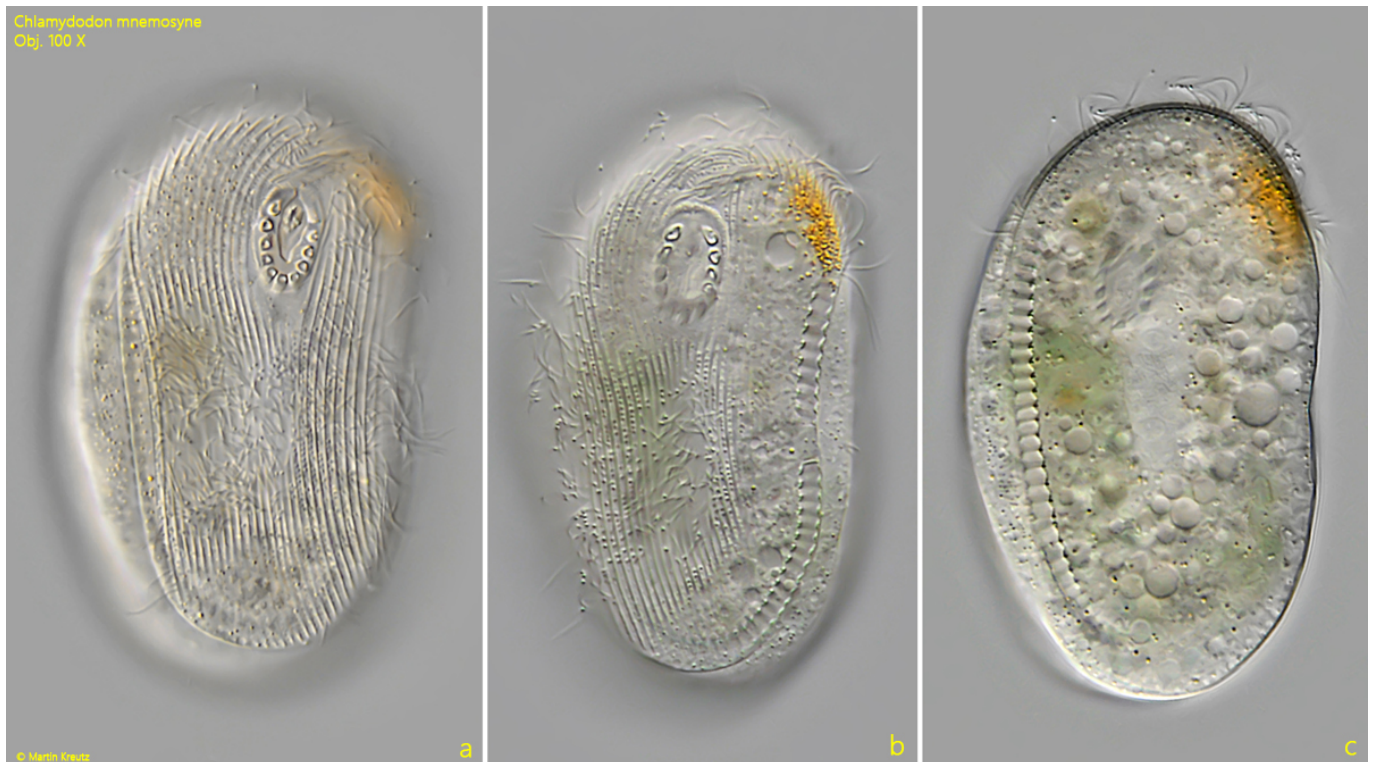
I found *Chlamydodon mnemosyne* in a tidal outlet in the village of Kloster on the island of Hiddensee. There were only a few specimens in the samples.

*Chlamydodon mnemosyne* is a marine, ctenophorid ciliate. The genus *Chlamydodon* is characterized by the possession of a unique organelle. A tubular structure runs along the margin of the body, which is reinforced by rings, similar to a suction tube with ring reinforcement. This organelle has already been studied in detail by earlier authors, but its function is still unknown. In *Chlamydodon mnemosyne*, this cross-striated band is continuous and encircles the entire body without interruption (s. fig. 2 a-b). This makes it easy to distinguish *Chlamydodon mnemosyne* from the similar species *Chlamydodon triquetrus*, whose cross-striated band is interrupted at the posterior end.

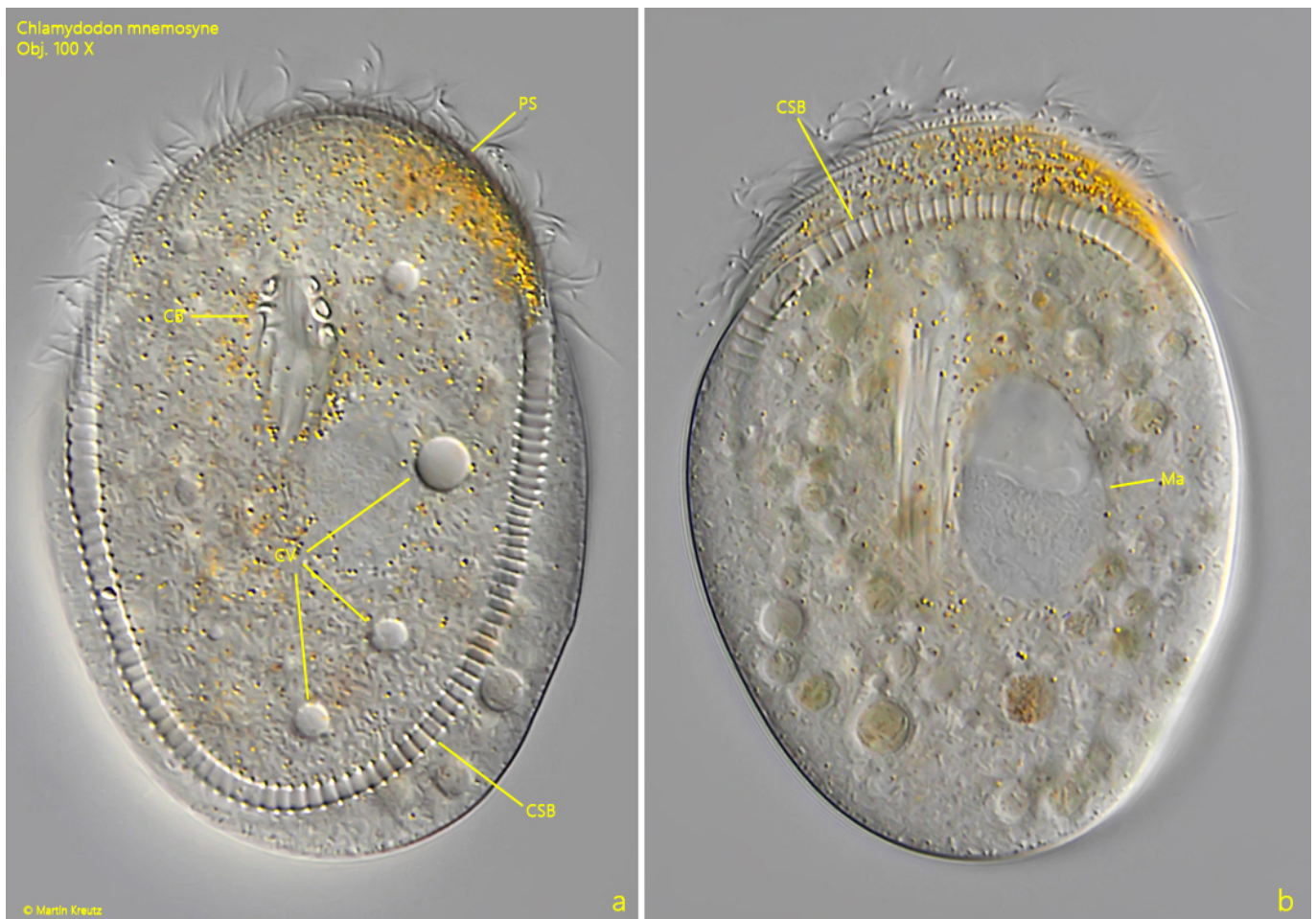
At 70  $\mu\text{m}$ , the specimens in my population were somewhat smaller than indicated by Kahl (80–90  $\mu\text{m}$ ). All specimens possessed a clear orange pigment spot at the anterior end near the left margin (s. figs. 1 b and 2 a-b). The cytopharyngeal basket

usually had 10–11 nematodesmal rods and the mouth opening was clearly oval.

More information and a video on *Chlamydodon mnemosyne*: [Jeffrey Silverman-iNaturalist-Chlamydodon mnemosyne](#)



**Fig. 1 a-c:** *Chlamydodon mnemosyne*. L = 70  $\mu$ m. Different focal planes of a freely swimming specimen from ventral. Obj. 100 X.



**Fig. 2 a-b:** *Chlamydodon mnemosyne*. Two focal planes of a squashed specimen from ventral. Note the continuous cross-striated band (CSB) encircle the complete body. Several contractile vacuoles (CV) are scattered throughout the cytoplasm. The macronucleus (Ma) is heteromerous and oval. CB = cytopharyngeal basket, PS = pigment spot of orange colored vesicles. Obj. 100 X.