

## ***Cryptodifflugia pusilla* Playfair, 1917**

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

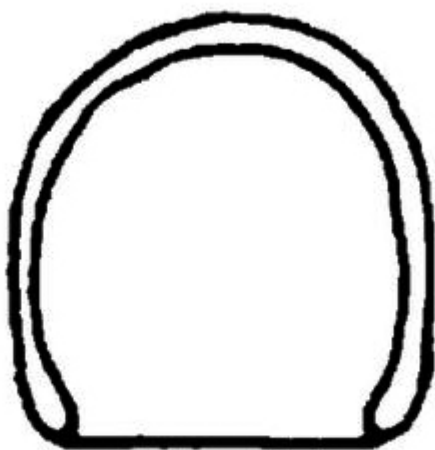
**Synonym:** n.a.

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

**Phylogenetic tree:** [Cryptodifflugia pusilla](#)

### **Diagnosis:**

- shell helmet-shaped
- cross section circular
- shell chitinous, orange-brown, without xenosomes
- aperture almost equal width of shell
- pseudostome with thickened border
- length 8-13  $\mu\text{m}$
- pseudopodia short, hard to see



after Playfair

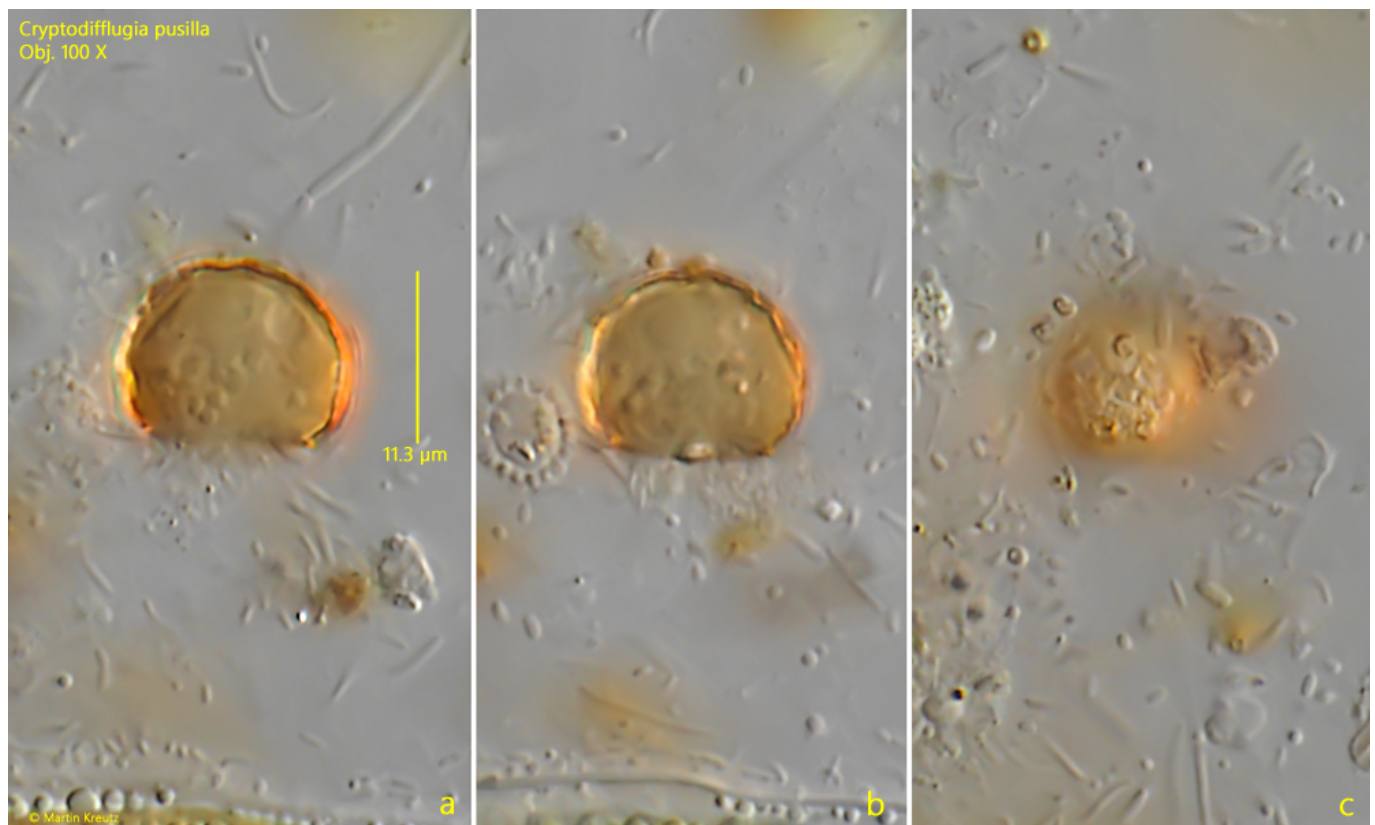
*Cryptodifflugia pusilla*

So far I have only found *Cryptodifflugia pusilla* in the [Simmelried](#). There I find the

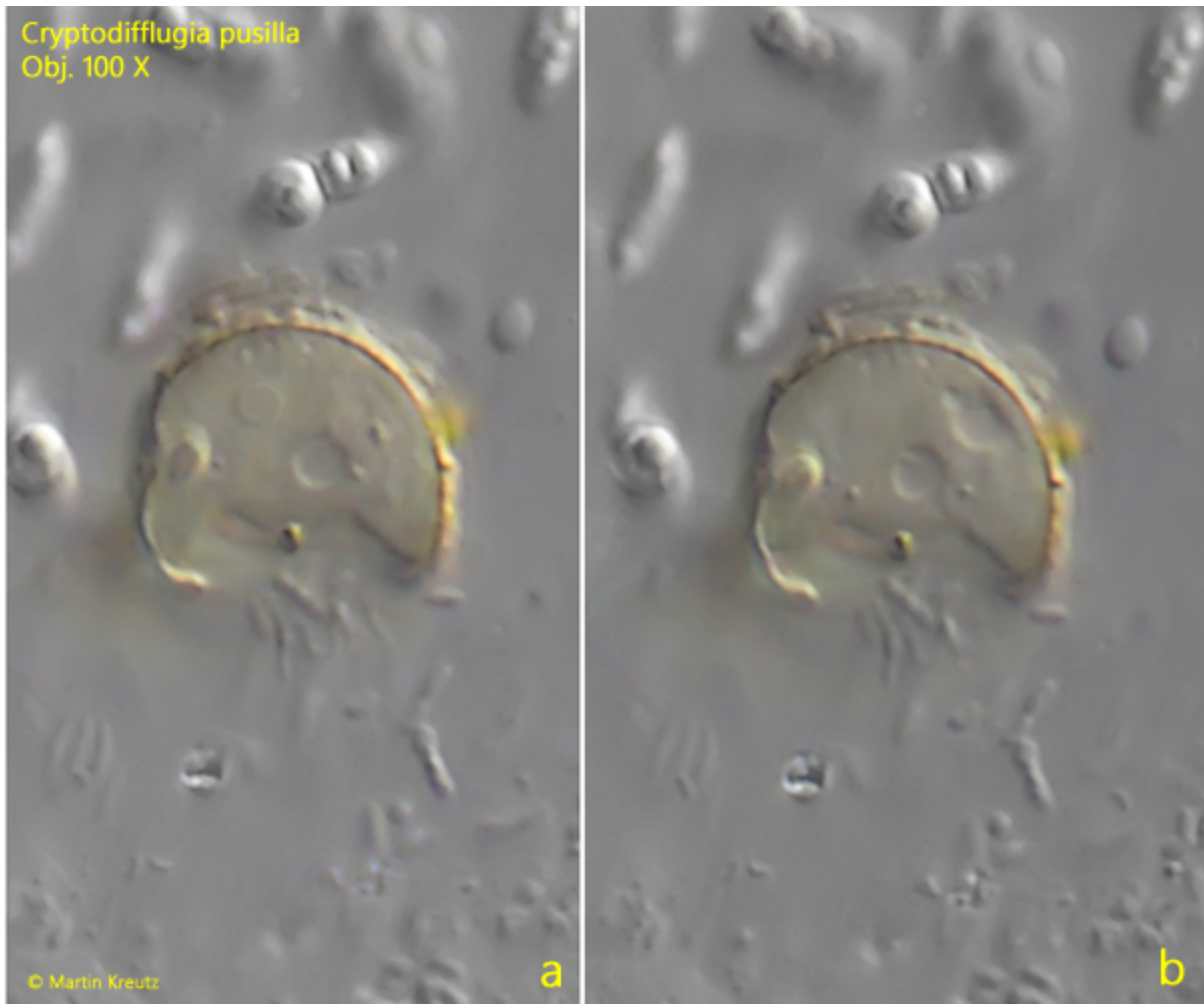
specimens mainly in slimy detritus flakes interspersed with bacterial colonies.

As *Cryptodiffugia pusilla* is very small at around 10–15 µm and often burrows into the detritus flakes, the specimens are difficult to find in fresh samples. The shells in my population were between 8–16 µm long and clearly orange-brown in color. Although the species is said to have a smooth shell, all the specimens I found were covered with several xenosomes (s. fig. 3 b). This observation was also made by Siemensma (s. link below). I could never find specimens with outstretched pseudopodia. The nucleus is located posteriorly and has a central nucleolus. There seems to be only one contractile vacuole, which is located in the posterior third.

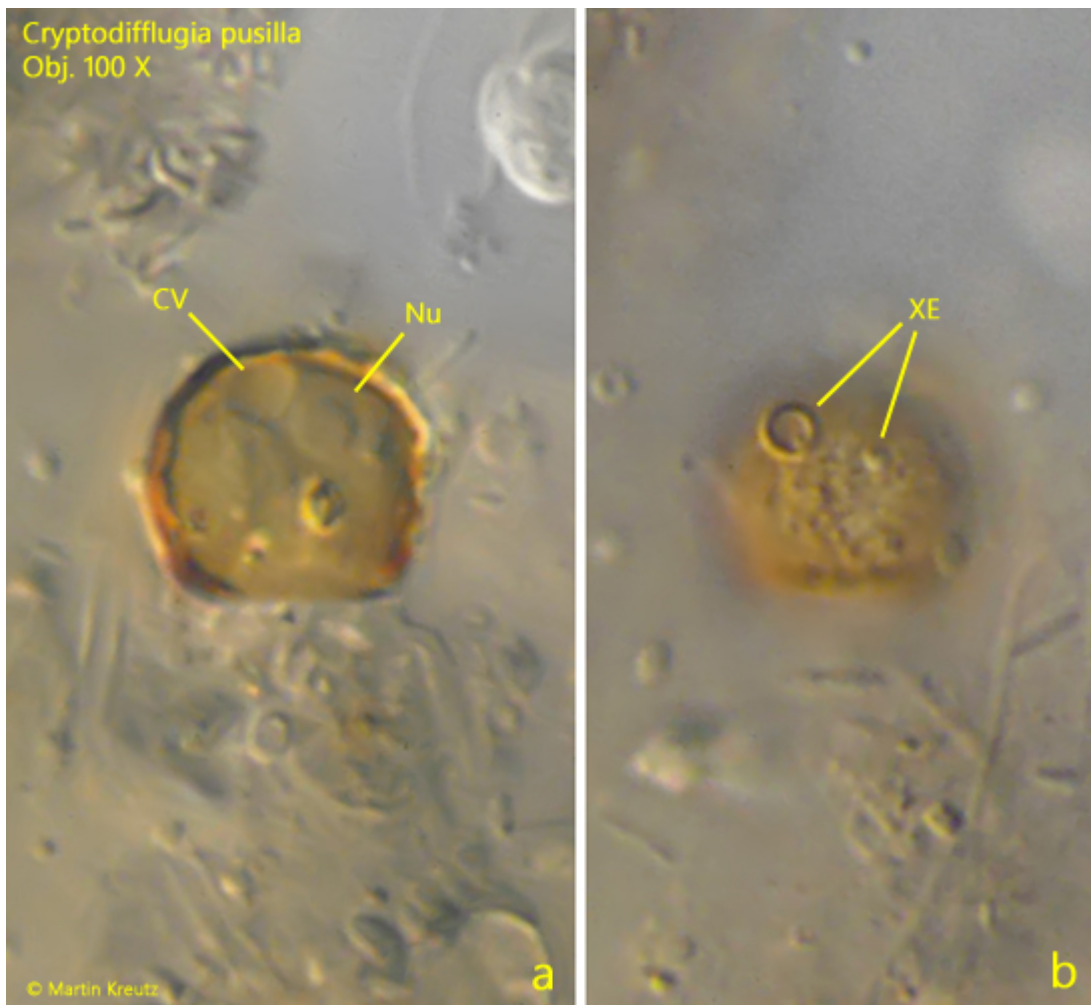
More images and information on *Cryptodiffugia pusilla*: [Ferry Siemensma-Microworld-Cryptodiffugia pusilla](#)



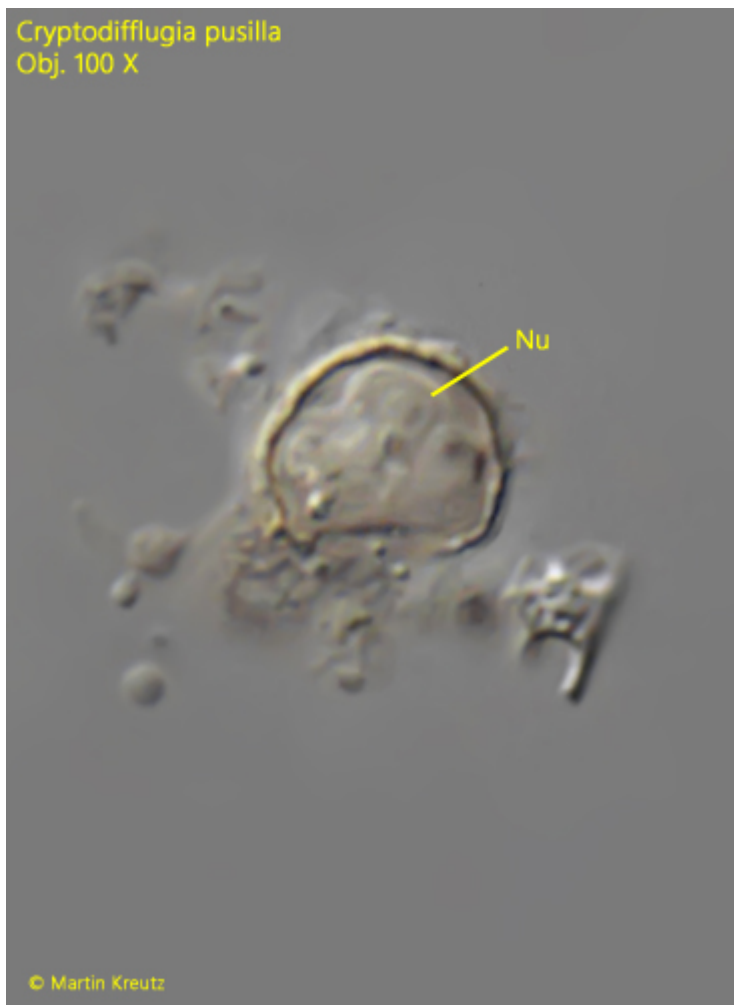
**Fig. 1 a-c:** *Cryptodiffugia pusilla*. L = 11.3 µm. Three focal planes of a specimen embedded in a gelatinous detritus flake. Obj. 100 X.



**Fig. 2 a-b:** *Cryptodiffugia pusilla*. L = 16.8  $\mu$ m. Two focal planes of a second specimen. Obj. 100 X.



**Fig. 3 a-b:** *Cryptodiffugia pusilla*. L = 10.0  $\mu\text{m}$ . Two focal planes of a specimen found in Feb 2007. Note the xenosomes (XE) attached to the shell. CV = contractile vacuole, Nu = nucleus. Obj. 100 X.



**Fig. 4:** *Cryptodiffugia pusilla*. L = 9.3  $\mu\text{m}$ . A fourth specimen. Nu = nucleus. Obj. 100 X.