

Hedriocystis pellucida

Hertwig & Lesser, 1874

Most likely ID: n.a.

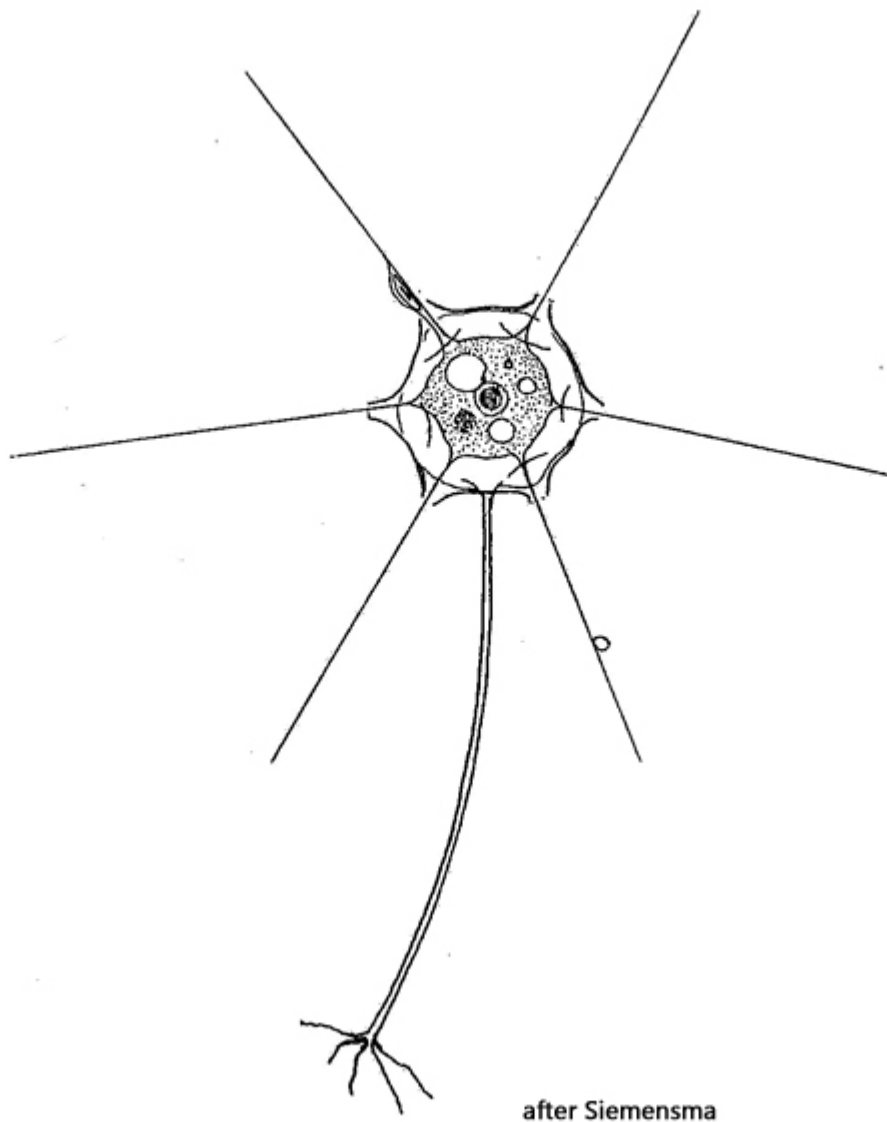
Synonym: n.a.

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

Phylogenetic tree: [Hedriocystis pellucida](#)

Diagnosis:

- cell in a polygonal shell with long stalk
- shell with pores on conical elevations
- pseudopodia arise from pores
- pseudopodia granulated
- diameter of cell 10-12 μm
- diameter of shell 16-30 μm
- length of stalk 36-90 μm
- spherical nucleus with central nucleolus
- one or several contractile vacuoles



Hedriocystis pellucida

I find *Hedriocystis pellucida* in [Ulmisried](#) and [Simmelried](#). The specimens are difficult to find in fresh samples. However, *Hedriocystis pellucida* likes to settle on the [floating coverslip](#) and is then easy to observe.

Hedriocystis pellucida forms a polygonal shell on a long stalk of organic, transparent material (s. figs. 1 a-b and 2). The shell has hump-like elevations with pores. The cell stretches its granulated pseudopodia outwards through these pores to catch prey. Bacteria are almost exclusively used as prey. This is the reason why *Hedriocystis pellucida* only settles on the floating coverslip when a sufficient growth of bacteria has formed there.

Cyst formation also takes place in the shell, which remains in the shell (s. fig. 4 a-b).

The cysts have a diameter of 8–9 μm and are densely covered with short spines.

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

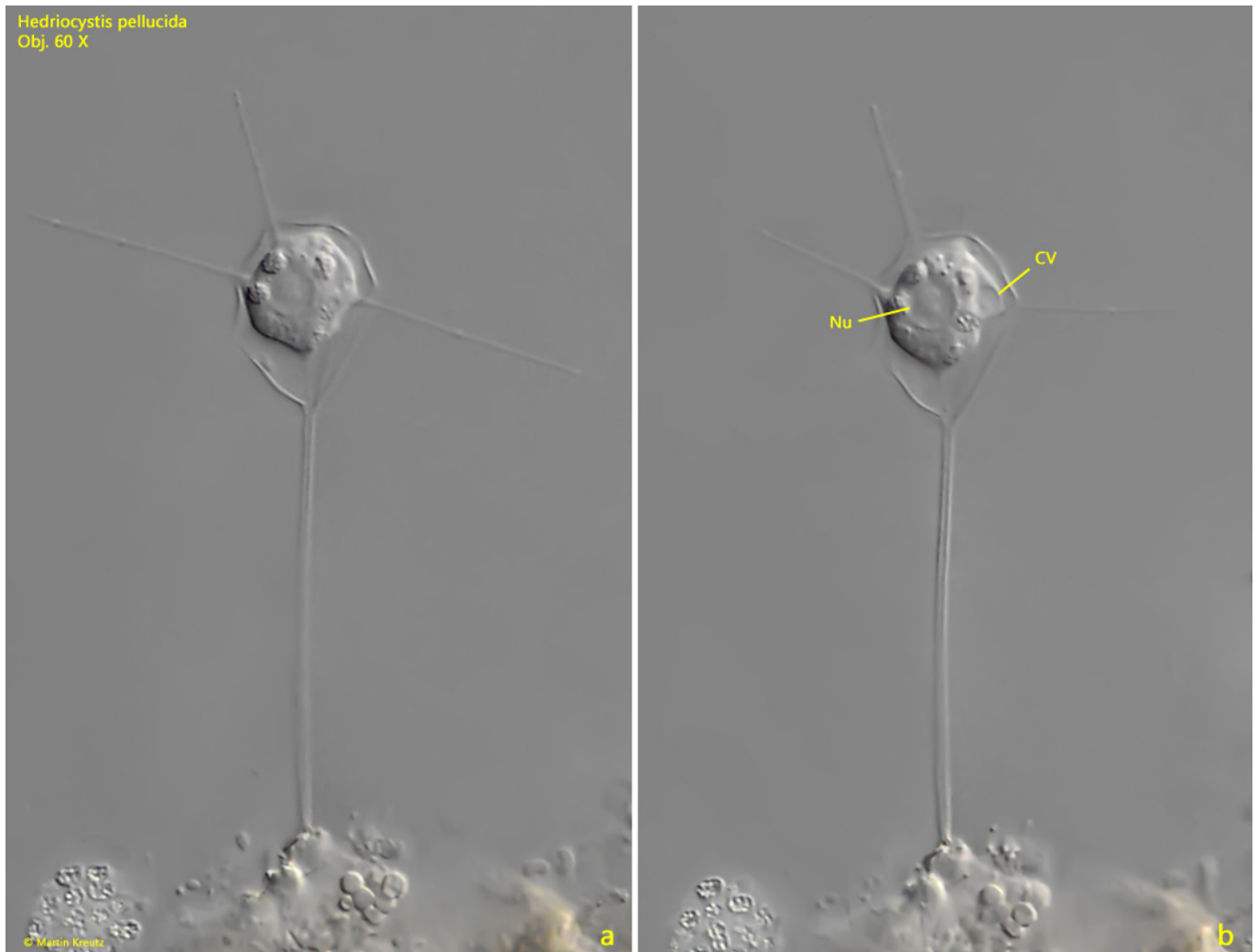


Fig. 1 a-b: *Hedriocystis pellucida*. L = 58 μm . Two focal planes of a specimen attached to a detritus flake. Nu = nucleus, CV = contractile vacuole. Obj. 60 X.

Hedriocystis pellucida
Obj. 100 X

25 μm

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Fig. 2: *Hedriocystis pellucida*. L = 64 μm . A specimen with fully extended pseudopodia attached to a [floating coverslip](#). Obj. 100 X.

Hedriocystis pellucida
Obj. 100 X

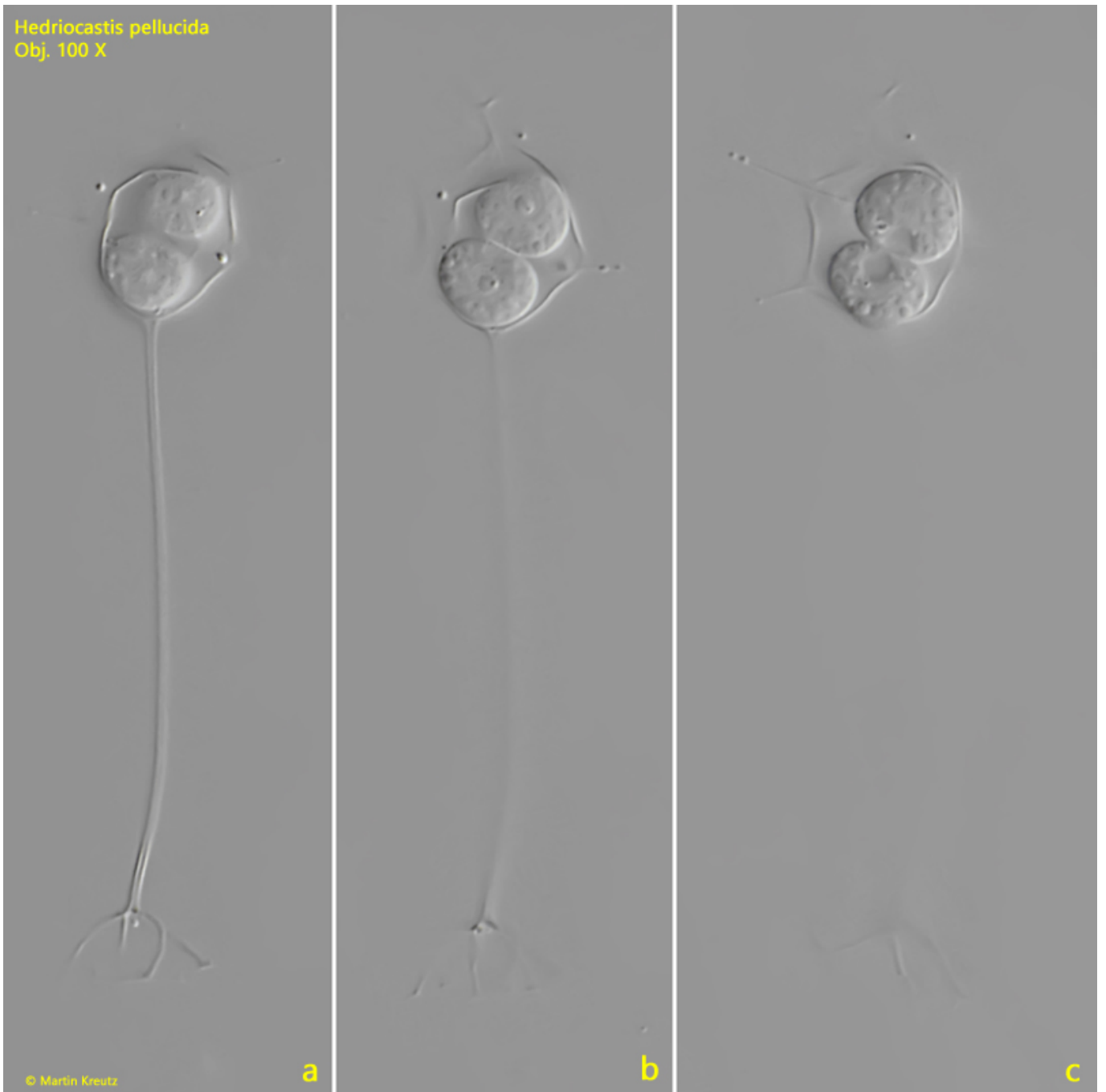


Fig. 3 a-c: *Hedriocystis pellucida*. L = 68 μ m. Different focal planes of two cells in a shell after cell division. Obj. 100 X.

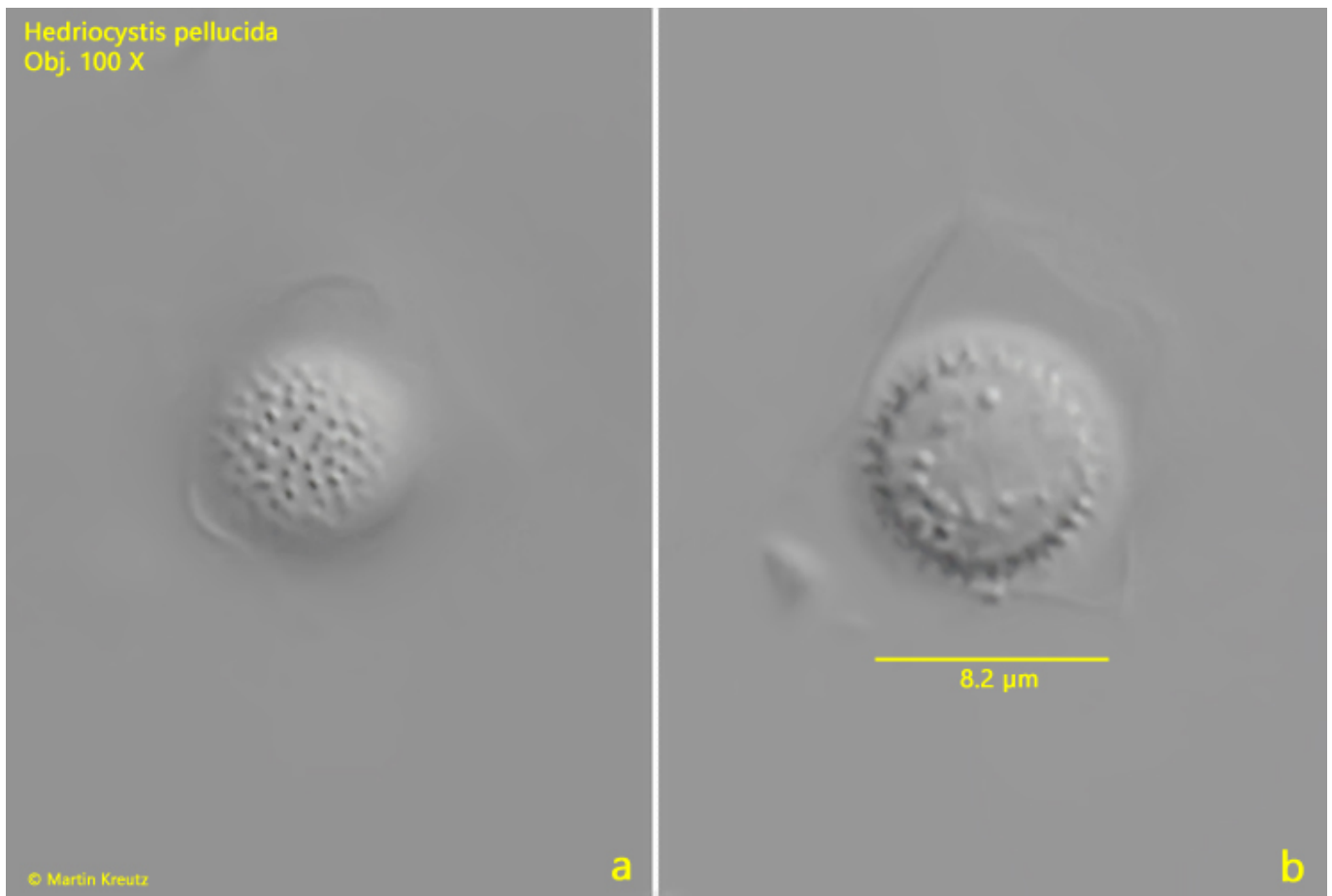


Fig. 4 a-b: *Hedriocystis pellucida*. A cyst with a diameter of 8.2 μm . The surface of the cyst is covered with short spines. Obj. 100 X.