

## ***Caenomorpha lauterborni* Kahl, 1927**

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

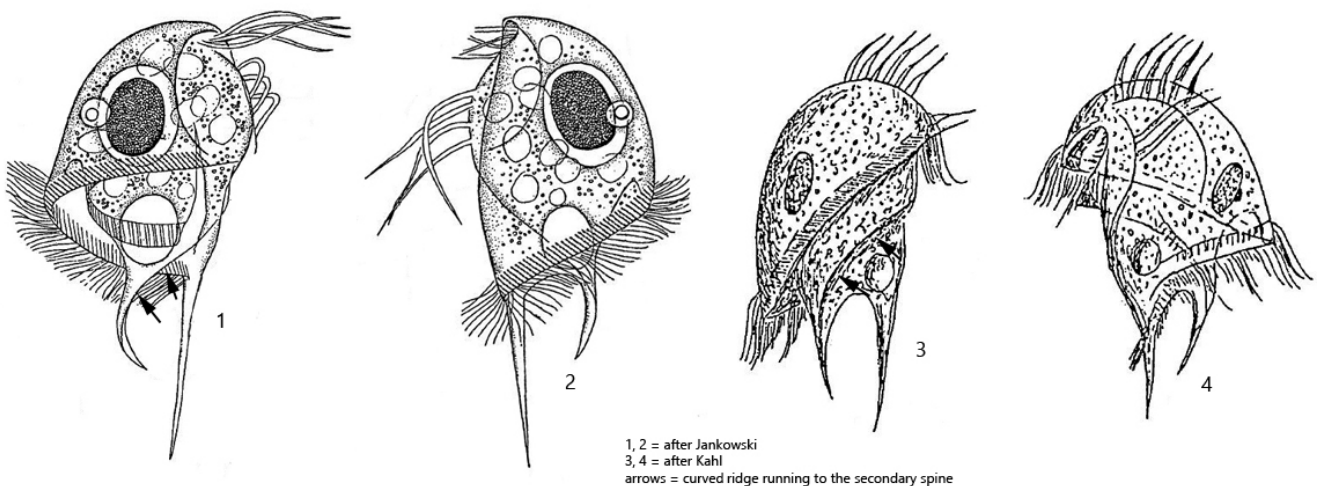
**Synonym:** n.a.

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

**Phylogenetic tree:** [Caenomorpha lauterborni](#)

### **Diagnosis:**

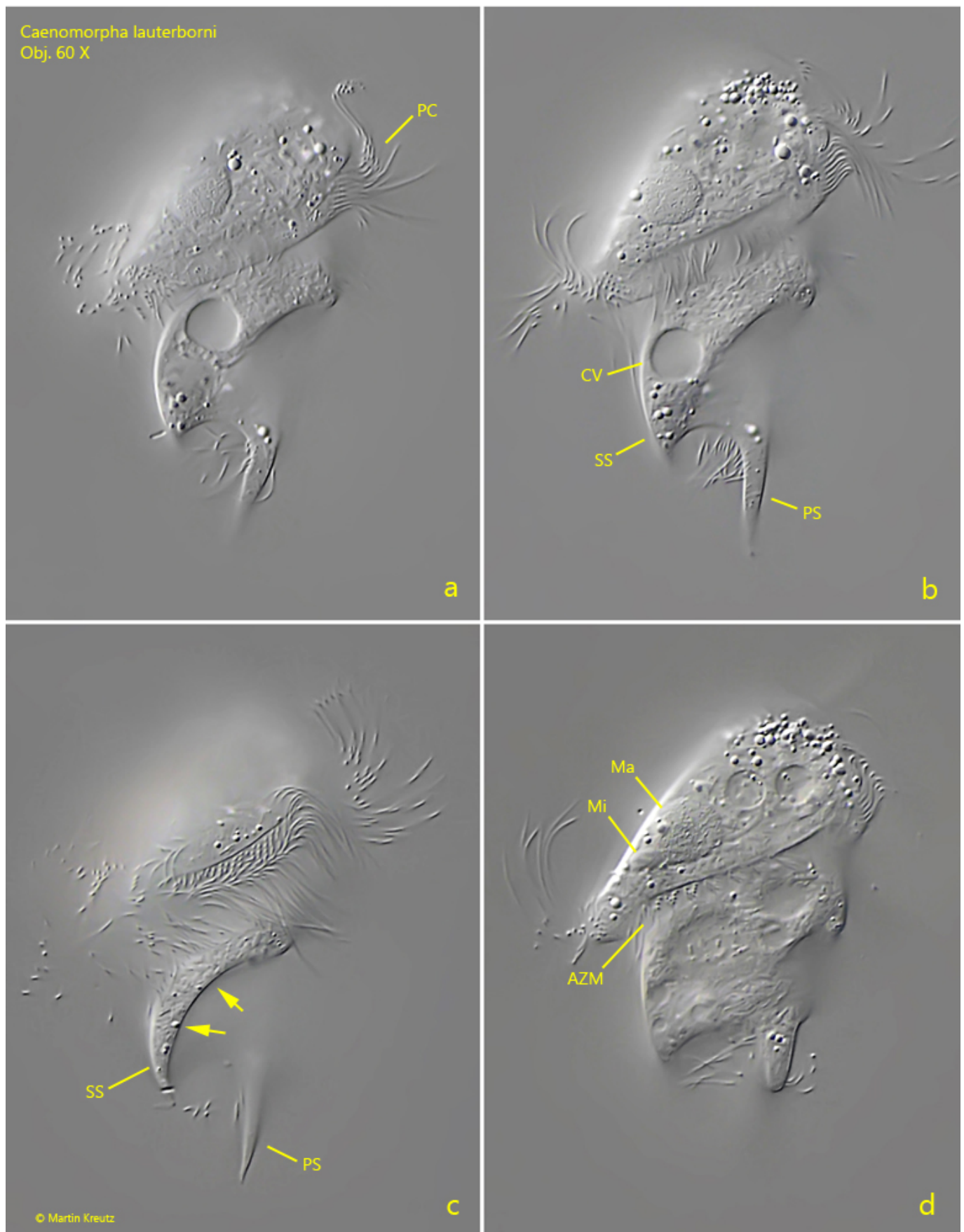
- body medusoid with two spines
- primary spine straight and thin with a pointed distal end
- secondary spine is slightly flattened and curved towards the central longitudinal axis
- a curved ridge runs to the secondary spine
- length 60–70  $\mu\text{m}$
- macronucleus globular or ovoid with an adjacent micronucleus
- on right side of the dome two rows of cirri
- without somatic cilia except a small field of cilia at the base of the primary spine
- adoral zone runs in a furrow and encircles the body spirally
- mouth opening in mid-body, cytopharynx directed anteriorly
- one contractile vacuole located at the base of the secondary spine



## Caenomorpha lauterborni

Among the caenomorphid ciliates *Caenomorpha lauterborni* is one of the smaller species. I have found it so far only in the mud zone of the [Simmelried](#). Possibly I have overlooked the species in the other localities so far, due to the small size and because *Caenomorpha lauterborni* is a fast swimmer. In addition, the species is coverslip sensitive, which makes it difficult to examine living individuals.

A characteristic feature of *Caenomorpha lauterborni* is a distinct ridge, which originates from the secondary spine, runs across the right side to the ventral side (s. arrows in drawings 1 and 3 above and fig. 1 c). In addition, the contractile vacuole is located at the base of the secondary spine (s. fig. 1 b) and not of the primary spine. The secondary spine is slightly offset from the central longitudinal axis toward the margin. While the primary spine is narrow and straight with a distinct tip, the secondary spine is somewhat flattened and distinctly curved toward the central, longitudinal axis (s. fig. 1c).



**Fig. 1 a-d:** *Caenomorpha lauterborni*. L = 64  $\mu$ m. A freely swimming specimen from the left side. Note the distinct ridge (c, arrows) running from the ventral side to the secondary spine (SS). AZM = adoral zone of membranelles, CV = contractile

vacuole, Ma = macronucleus, Mi = micronucleus, PC = perizonal cilia, PS = primary spine. Obj. 60 X.