

Urostomides striatus

(McMurrich, 1884) Jankowski, 1964

Most likely ID: n.a.

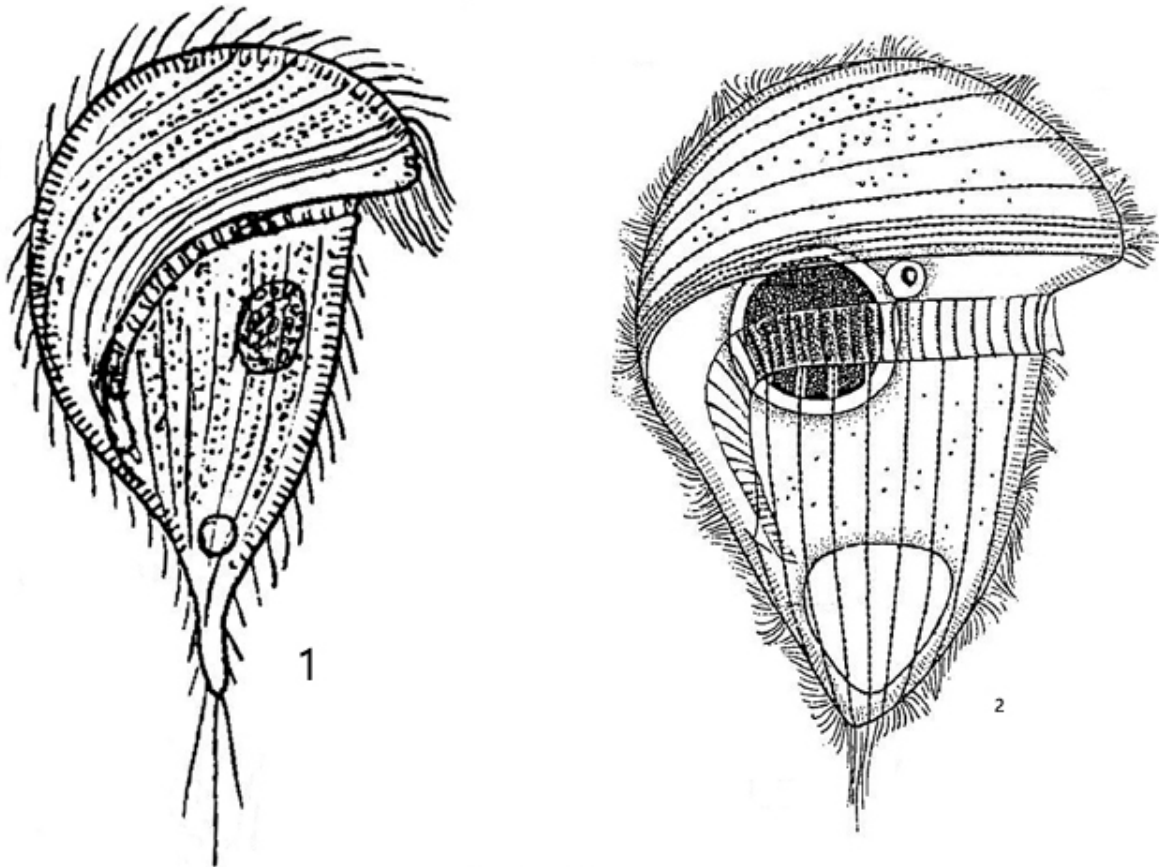
Synonyms: *Metopus striatus*

Sampling location: [Simmelried](#)

Phylogenetic tree: [Urostomides striatus](#)

Diagnosis:

- body pyriform, laterally flattened
- preoral dome broadly rounded, posterior end tapered
- length 60–120 µm
- cytoplasm colorless, sometimes slightly yellowish
- adoral zone runs diagonally around half of the body
- posterior sixth of the adoral zone almost parallel to the longitudinal axis of the body
- dome overhangs the adoral zone
- about 16 ciliary rows
- prominent fringe of 2 µm long extrusomes beneath pellice
- macronucleus oval or globular, 14–16 µm diameter
- micronucleus spherical, 4 µm diameter
- contractile vacuole subterminal
- tuft of caudal cilia, 15–25 µm long



1 = after Kahl
2 = after Jankowski

Urostomides striatus

Urostomides striatus was originally described as *Metopus striatus*. Jankowski then transferred species with 4 perizonal cilia rows to the genus *Urostomides*. The perizonal cilia rows are difficult to see in vivo, partly because most representatives of this genus are coverslip sensitive, making examination at high magnifications difficult.

In my site [Simmelried](#) I find *Urostomides striatus* regularly in the upper mud zone. I recognize the species even at low magnifications by the body shape, which resembles a mirror image of a question mark. Also, the body is flattened, but this can only be seen in freely swimming specimens. *Urostomides striatus* is very coverglass sensitive in my experience. When trying to reduce the layer thickness, the specimens burst and denature immediately. Only in very rare cases careful squashing of specimens succeeds, which made the images with oil immersion fig. 3 a-b and fig. 4 a-b possible.

In my population, most specimens were about 80 µm long and possessed a tail-like extended posterior end. The adoral zone extends to about the posterior third of the body. The most caudal section of the adoral zone bends and then runs almost in parallel to the longitudinal

axis of the body (s. figs. 2 a, 3 b and 5 b). At high magnifications, the fringe of extrusomes can be clearly seen (s. figs. 3 a and 4 a) and also that symbiotic bacteria are present in the cytoplasm.

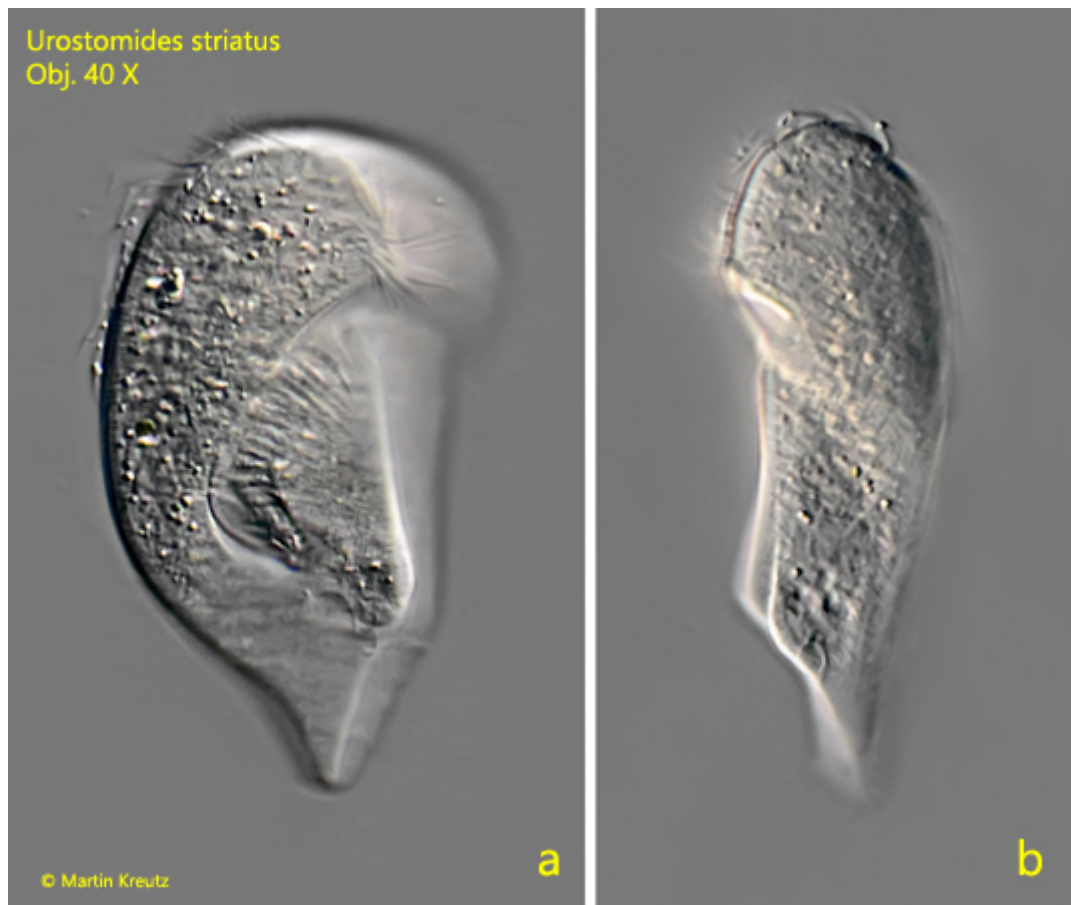


Fig. 1 a-b: *Urostomides striatus*. L = 79 μ m. Ventral view (a) and lateral view from right (b). The body is laterally flattened. Obj. 40 X.

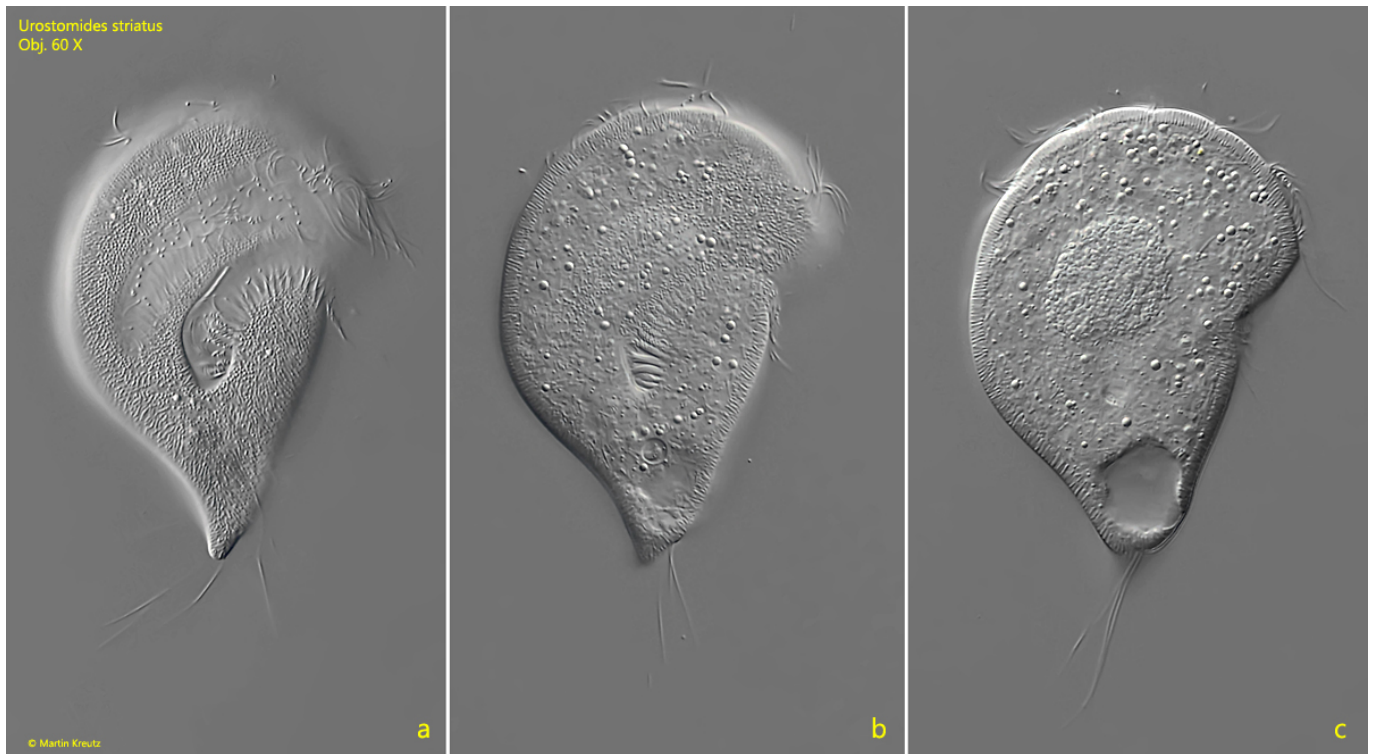


Fig. 2 a-c: *Urostomides striatus*. L = 84 μ m. Ventral view of a second, freely swimming specimen. Obj. 60 X.

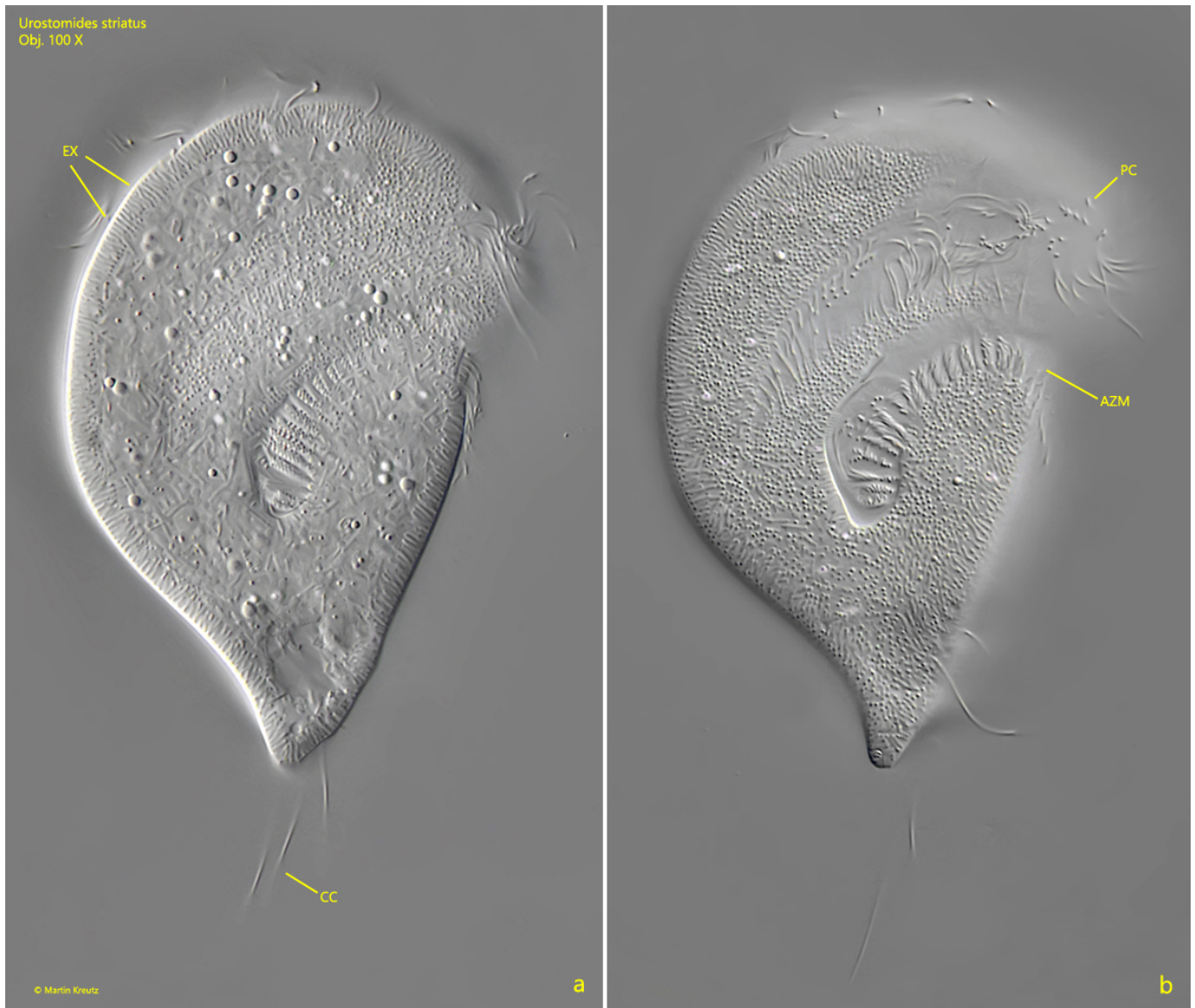


Fig. 3 a-b: *Urostomides striatus*. L = 84 μ m. Two focal planes of the slightly squashed specimen shown in fig. 2 a-c. AZM = adoral zone of membranelles, CC = tuft of caudal cilia, EX = fringe of extrusomes, PC = perizonal cilia. Obj. 100 X.

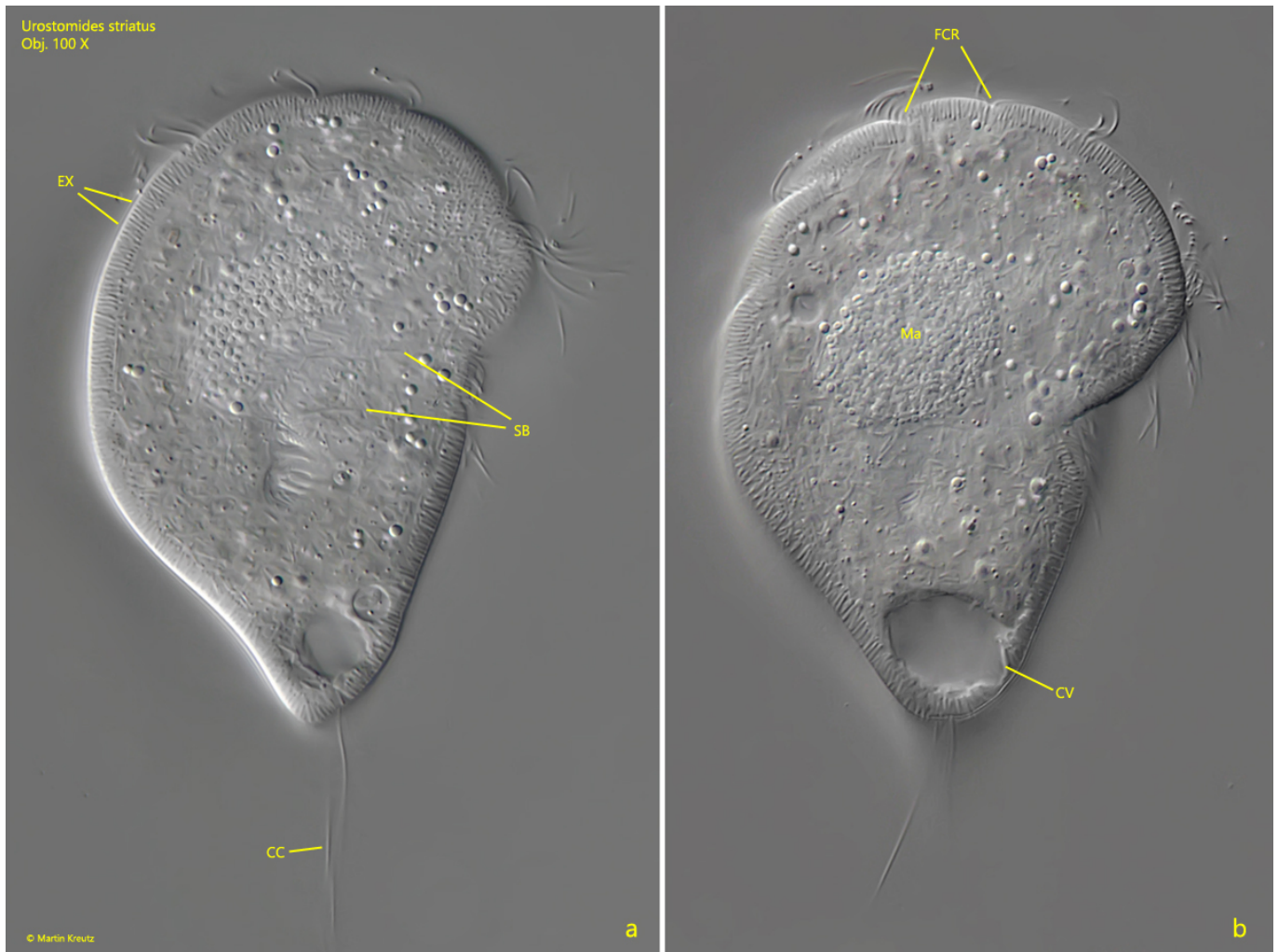


Fig. 4 a-b: *Urostomides striatus*. L = 84 μ m. Two focal planes of the slightly squashed specimen shown in fig. 2 a-c. CC = tuft of caudal cilia, CV = contractile vacuole, EX = fringe of extrusomes, FCR = furrows between the rows of cilia, Ma = macronucleus, SB = symbiotic bacteria in the cytoplasm. Obj. 100 X.



Fig. 5 a-c: *Urostomides striatus*. L = 64 μ m. Three focal planes of a third, freely swimming specimen in ventral view. Note the 4 rows of perizonal cilia (PCR). AZM = adoral zone of membranelles, MO = mouth opening. Obj. 100 X.