

***Chaetonotus elegans* Konsuloff, 1921**

Most likely ID: n.a.

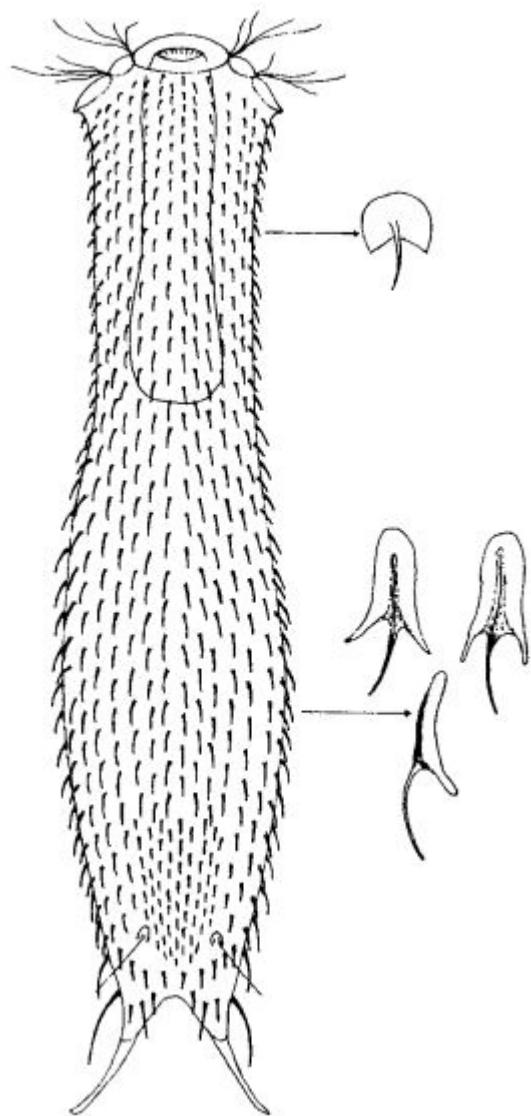
Synonym: n.a.

Sampling location: [Simmelried](#)

Phylogenetic tree: [*Chaetonotus elegans*](#)

Diagnosis:

- body shoe-shaped,
- length 160–195 μm , width 35–40 μm
- head five-lobed, pleural lobes small
- 4 ciliate tufts, all relatively short
- neck width 20–25 μm
- posterior setolae on special scales
- adhesive tubes reaching 3/4 of toe length (16–17 μm)
- dorsally 13–17 longitudinal rows of scales with short spines
- spines become longer towards posterior end
- 2–3 pairs of thickened scales at base of toes with long spines
- head and neck spines 2–3 μm long
- trunk spines 5–7 μm long
- at the posterior end a median field of 9–10 longitudinal rows of minute spines
- head and neck scales semicircular with a distal incision
- trunk scales with a keeled elongate proximal lobe and two distal wings
- ventrally 9 longitudinal rows of roundish scales with short spines
- pharynx cylindrical, terminally slightly swollen



after Konsuloff

Chaetonotus elegans

I have found *Chaetonotus elegans* in November 2021 and in November 2022 in the [Simmelried](#). Both specimens were from the uppermost mud layer. A close examination of the dorsal and ventral scales is necessary to identify this species with certainty. Especially the ventral scales (s. fig. 8) are not easy to document, because the specimens immediately turn on their ventral side under the cover glass. The exact shape and arrangement of the ventral scales has also not been known to my knowledge, as they are only described as “roundish with fine spines”. However, they have a waisted shape and are keeled with very short spines. In addition, there are two diamond-shaped terminal scales just before the base of the toes, which are also keeled, but with a slightly longer spine (s. fig. 8).

Chaetonotus elegans
Obj. 40 X



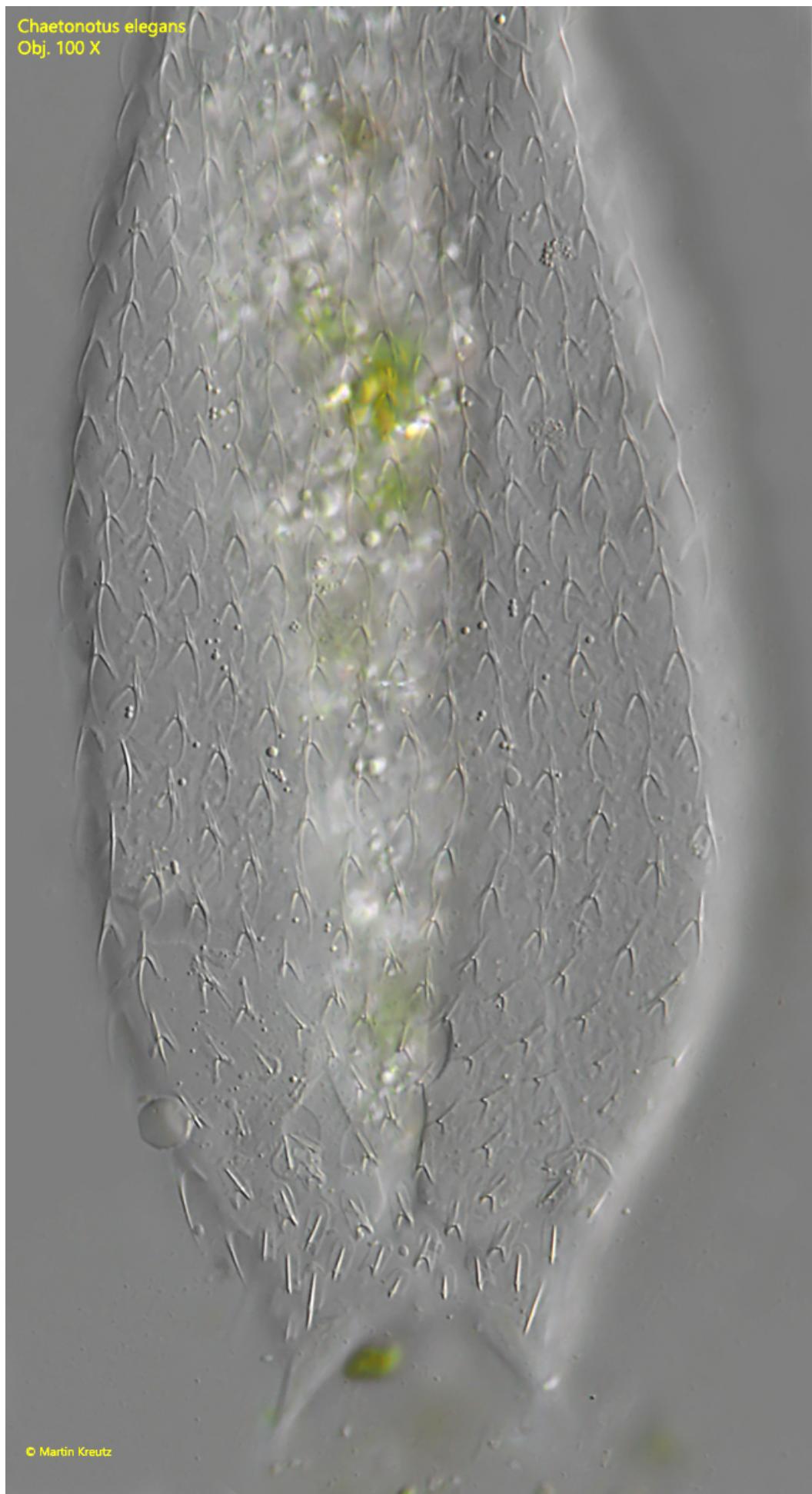
Fig. 1 a-c: *Chaetonotus elegans*. L = 170 μ m. Dorsal view of a freely swimming specimen. Obj. 40 X.

Chaetonotus elegans
Obj. 60 X



Fig. 2 a-c: *Chaetonotus elegans*. L = 170 μ m. Dorsal view of a slightly squashed specimen. Obj. 60 X.

Chaetonotus elegans
Obj. 100 X



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Fig. 3: *Chaetonotus elegans*. L = 170 μm . Dorsal view of a squashed specimen.
Obj. 100 X.

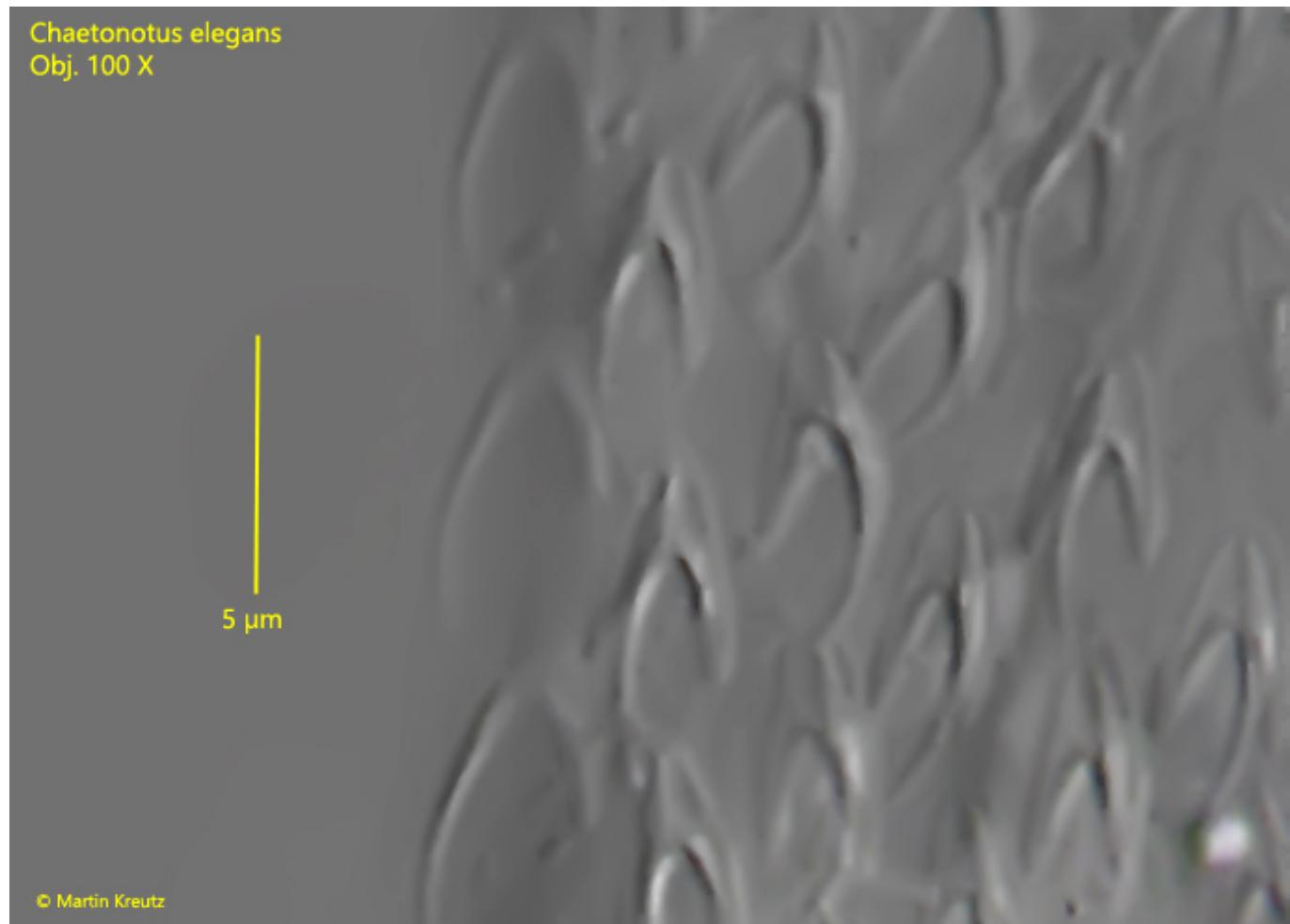


Fig. 4: *Chaetonotus elegans*. The scales of the neck region in detail. Obj. 100 X.

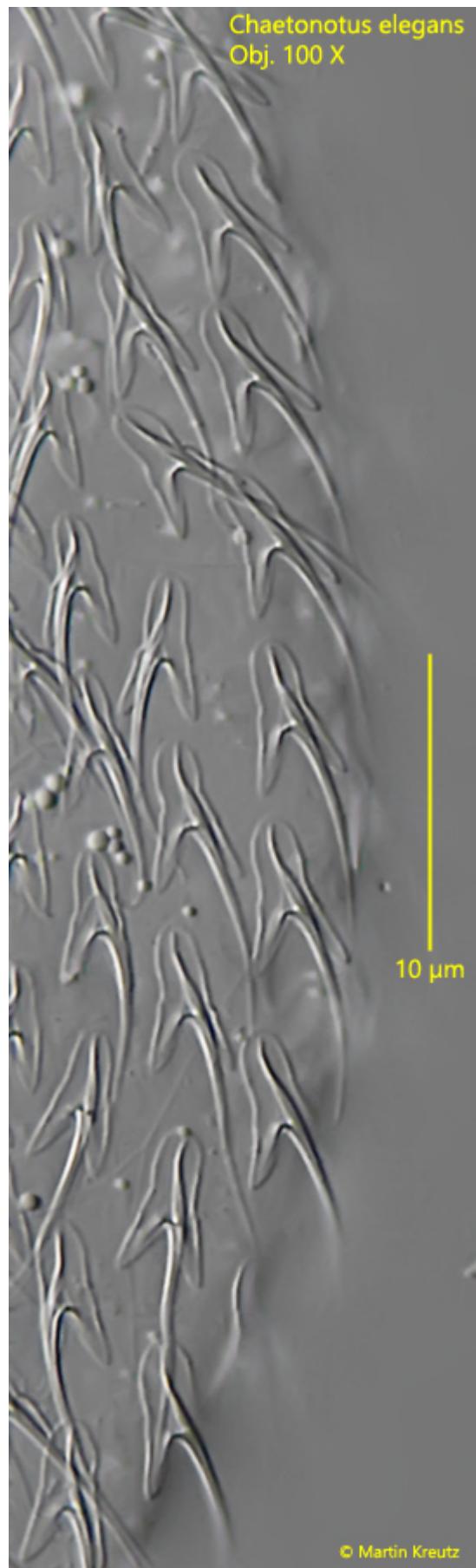


Fig. 5: *Chaetonotus elegans*. The trilobed scales of the mid-body. Obj. 100 X.

Chaetonotus elegans
Obj. 100 X

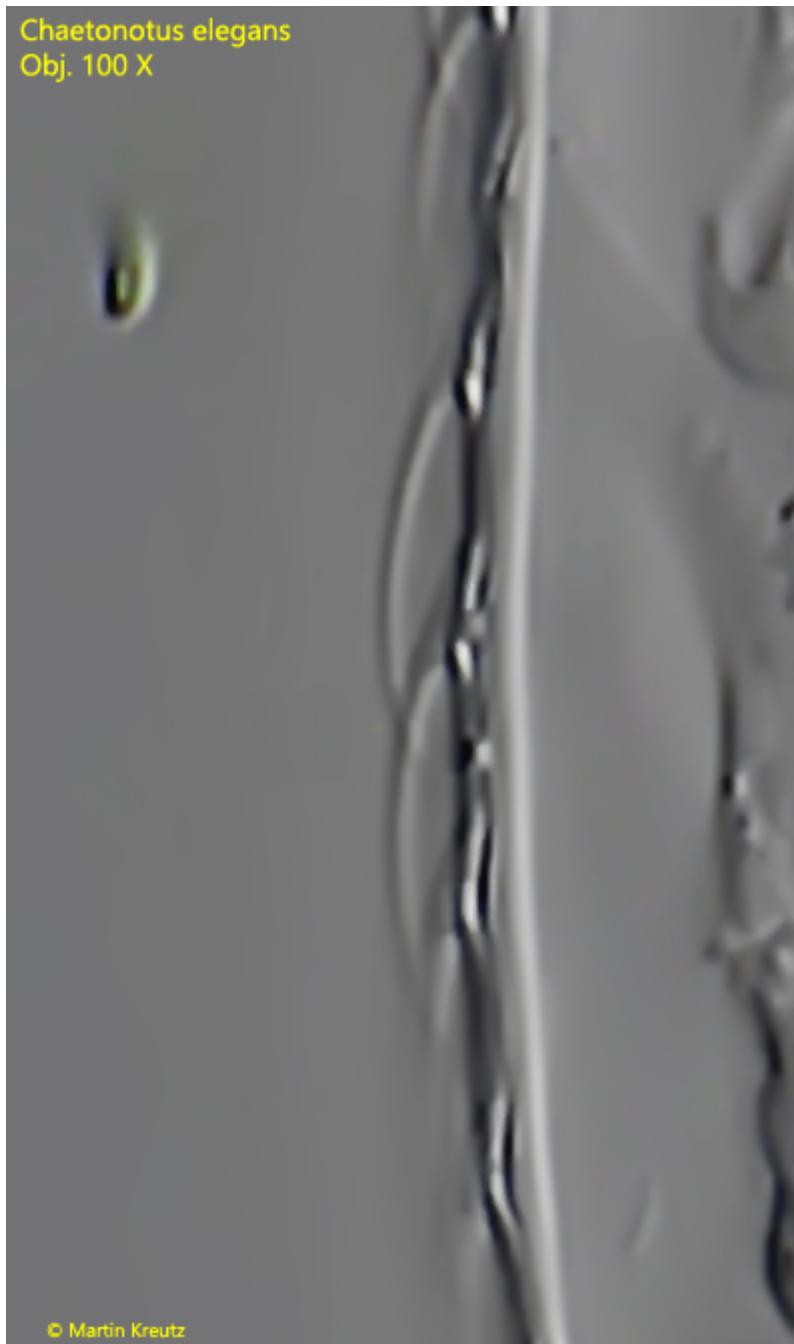


Fig. 6: *Chaetonotus elegans*. A lateral view of the scales in mid-body. Obj. 100 X.

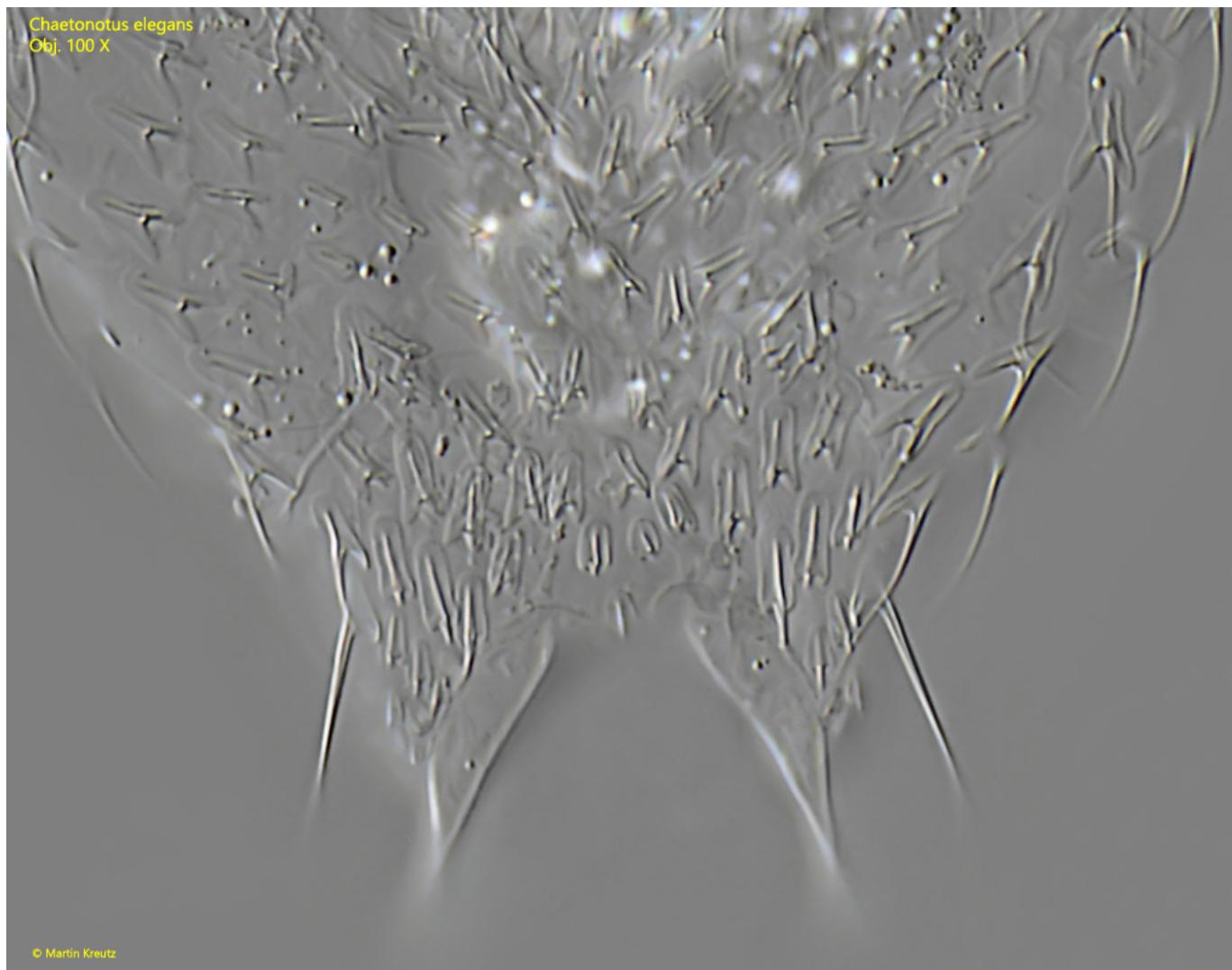


Fig. 7: *Chaetonotus elegans*. The dorsal scales at the posterior end in detail. Obj. 100 X.

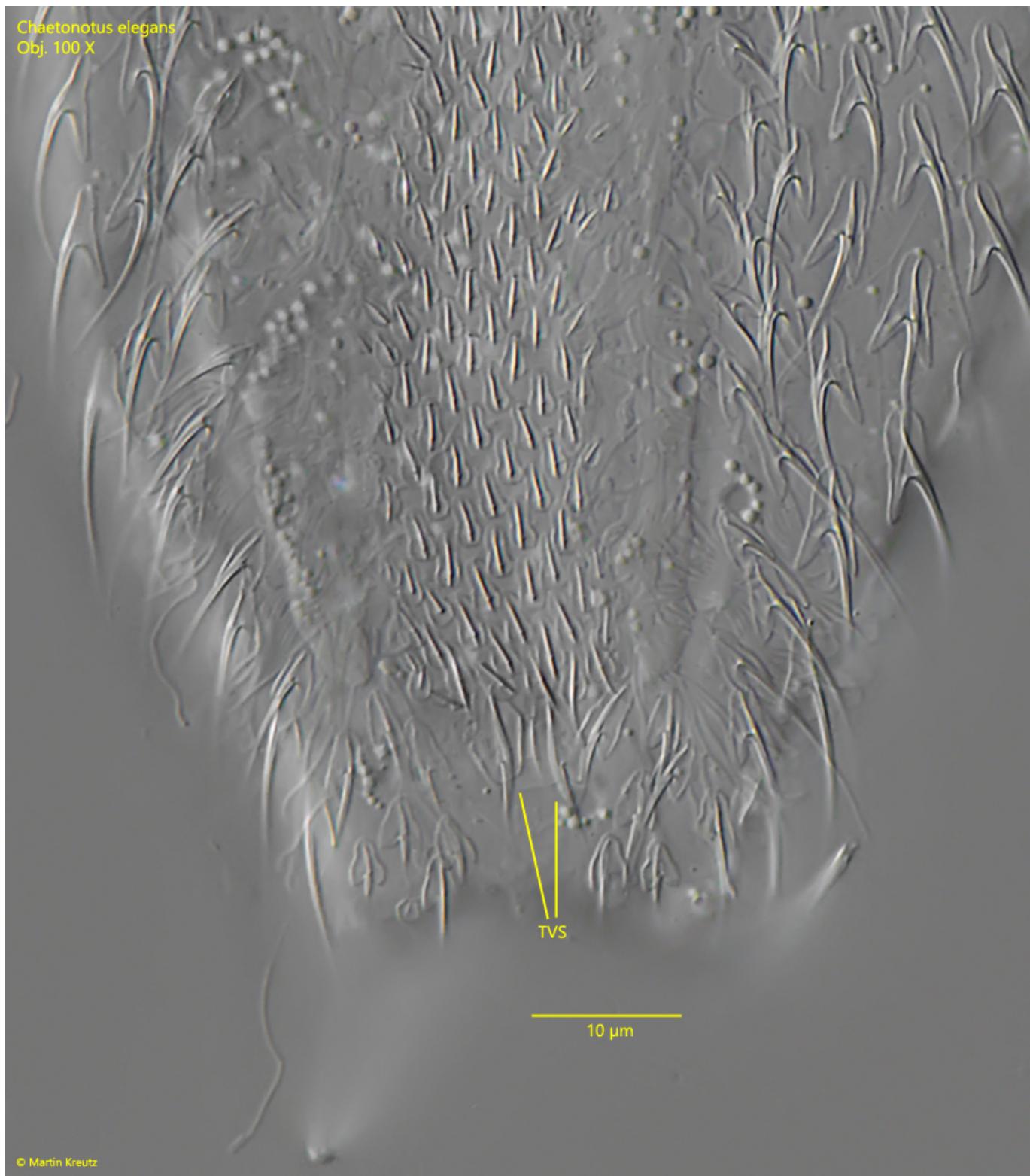


Fig. 8: *Chaetonotus elegans*. The ventral scales at the posterior end in detail. Note the pair of diamond-shaped terminal ventral scales (TVS). Obj. 100 X.

In November 2022, I found a specimen of *Chaetonotus elegans* in [Simmelried](#) with a pink colored intestine (s. figs. 8 a-e and 9 a-b). The color is probably due to phagocytosed rhodobacteria, which were abundant in the sample. In this specimen I could also document the posterior special scales from which the setolae arise (s. fig.

10).



Fig. 8 a-e: *Chaetonotus elegans*. L = 173 µm. A second freely swimming specimen from dorsal with a pink colored intestine due to phagocytosed rhodobacteria. Obj. 40 X.

Chaetonotus elegans
Obj. 100 X



Fig. 9 a-b: *Chaetonotus elegans*. L = 173 μ m. Two focal planes of the specimen with the pink intestine from dorsal . Obj. 100 X.



Fig. 10: *Chaetonotus elegans*. The posterior end of the second specimen in detail. The two special scales (SSC) bearing the setolae are visible. Obj. 100 X.