

***Collotheca campanulata* Dobie, 1849**

Most likely ID: n.a.

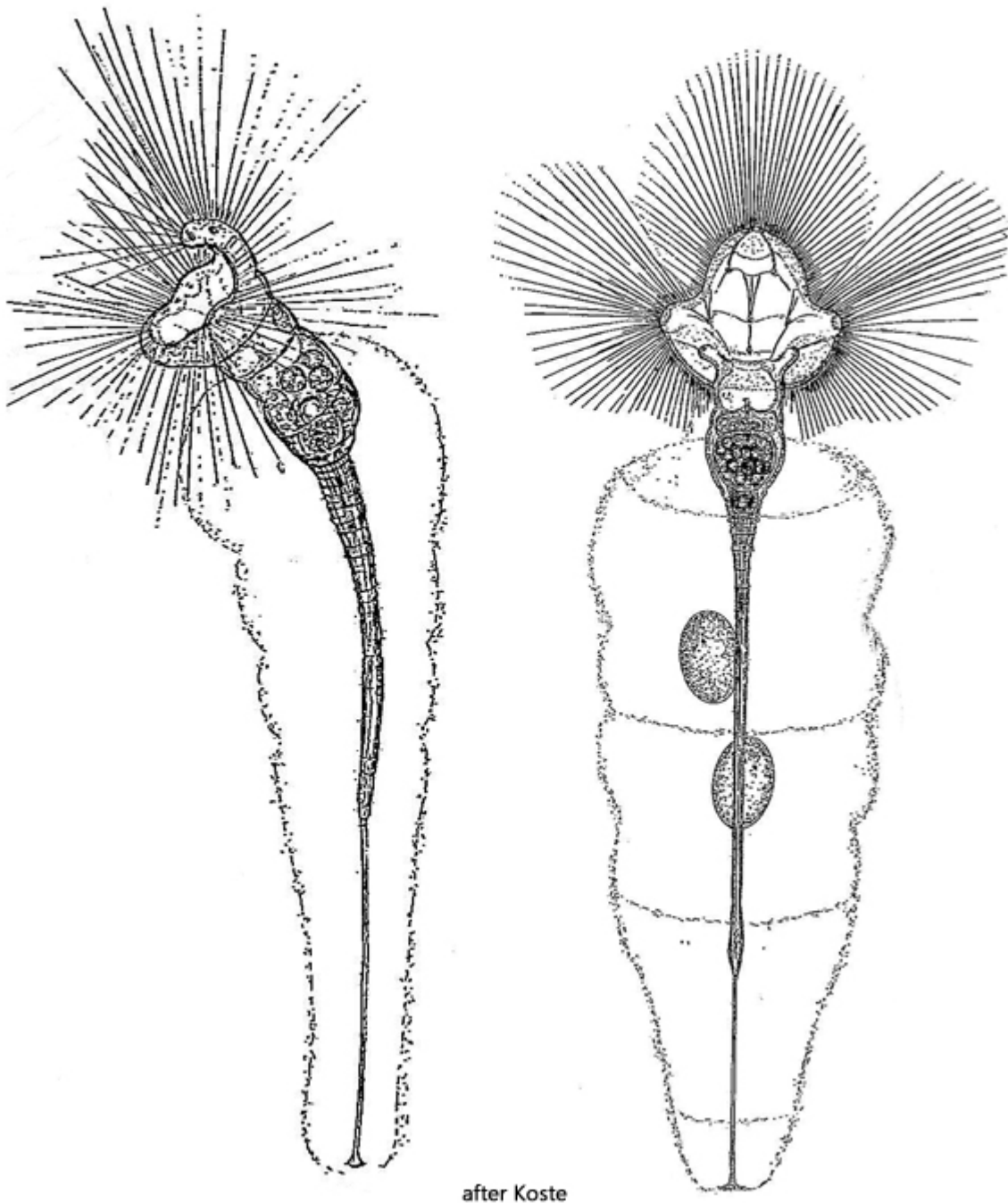
Synonyms: *Collotheca gracilipes*, *Collethea campanulata* var. *longicaudata*, *Floscularia longicaudata*

Sampling location: [Simmelried](#)

Phylogenetic tree: [Collotheca campanulata](#)

Diagnosis:

- corona bowl-shaped, with five lobes
- lobes without knobs at distal end
- dorsal lobe the largest, lateral small, ventral medium sized
- interspace between lobes with cilia
- length up to 1400 µm
- with long setae arise from the knobs
- long, slender foot terminated by nonretractile peduncle
- oval eggs deposited in gelatinous tube
- in a gelatinuous tube
- eyespots only in juvenile specimens



Collothea campanulata

I regularly find *Collothea campanulata* in the [Simmelried](#), but usually only single specimens. However, in old samples, several specimens often settle on the vessel wall. Sometimes I also find specimens on the [floating coverslip](#).

Collothea campanulata can be recognized by the 5 clearly rounded lobes, which are not truncated but rounded (s. fig. 3 a-b). When the corona is fully extended, the dorsal lobe is the largest and distinctly bent inward. I was able to determine the length of the extended setae consistently at 220–230 μm (s. fig. 4), although this can vary between different individuals. The margin of the corona between the lobes

is covered with shorter setae (s. fig. 5). This is also a distinguishing feature from the similar species *Collotheca ornata*, which is bare between the lobes.

With the extended setae flagellates, algae, and small ciliates are caught, which then enter the vestibulum. At the bottom of the vestibulum, there are sensory cilia that detect the captured prey (s. fig. 6). Then the corona contracts briefly to transfer the prey into the underlying trochus with this movement. From here, the prey is then grabbed by the trophi, crushed, and transported into the crop.

More images and information on *Collotheca campanulata*: [Michael Plewka-Freshwater life-Collotheca campanulata](#)

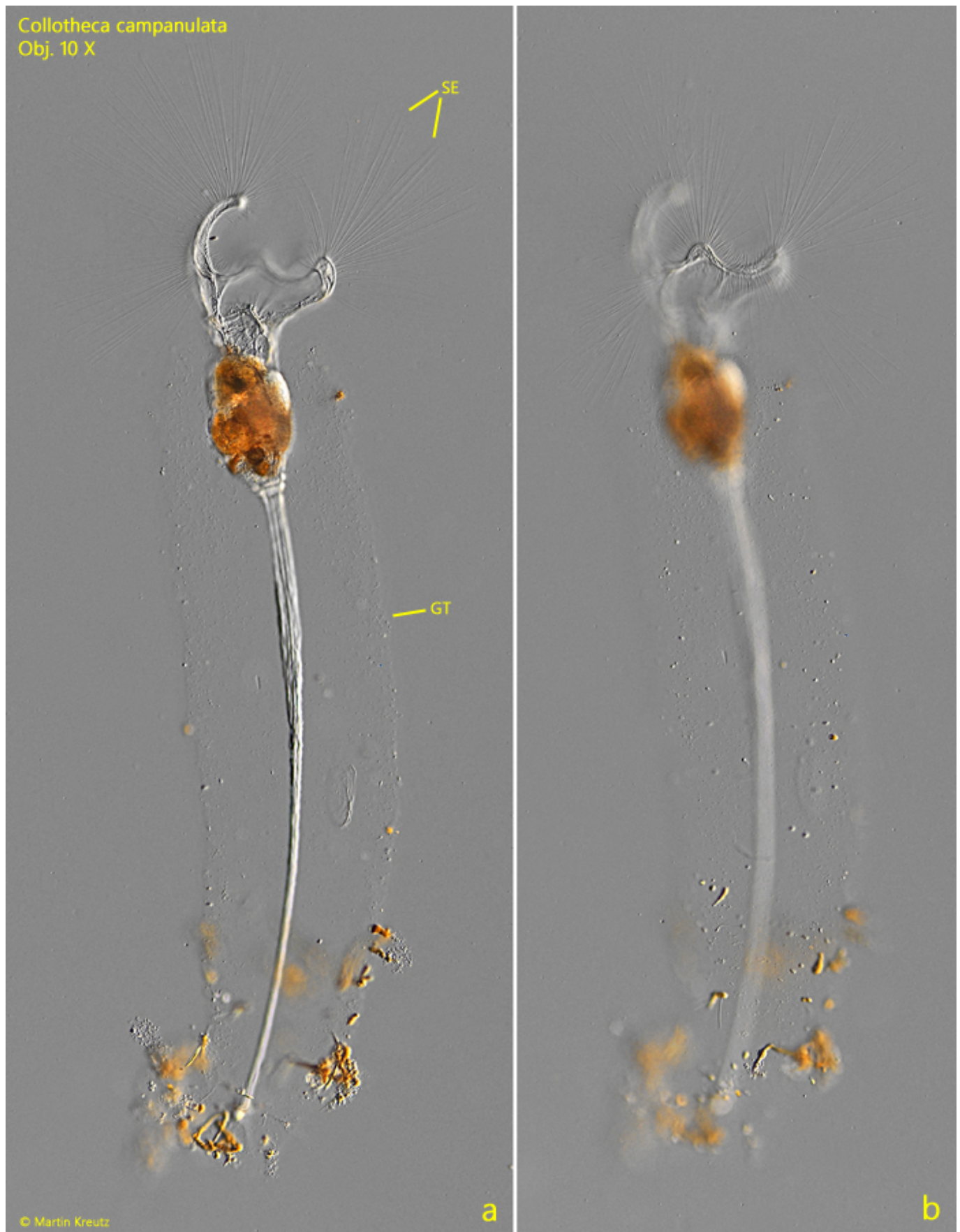


Fig. 1 a-b: *Collotheca campanulata*. L = 625 μ m (without setae). Two focal planes of an elongated specimen in a gelatinous tube (GT). SE = setae. Obj. 10 X.

Collotheca campanulata
Obj. 20 X



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Fig. 2: *Collotheca campanulata*. L = 625 μm (without setae). The same specimen as shown in fig. 1 a-b at higher magnification. Obj. 20 X.

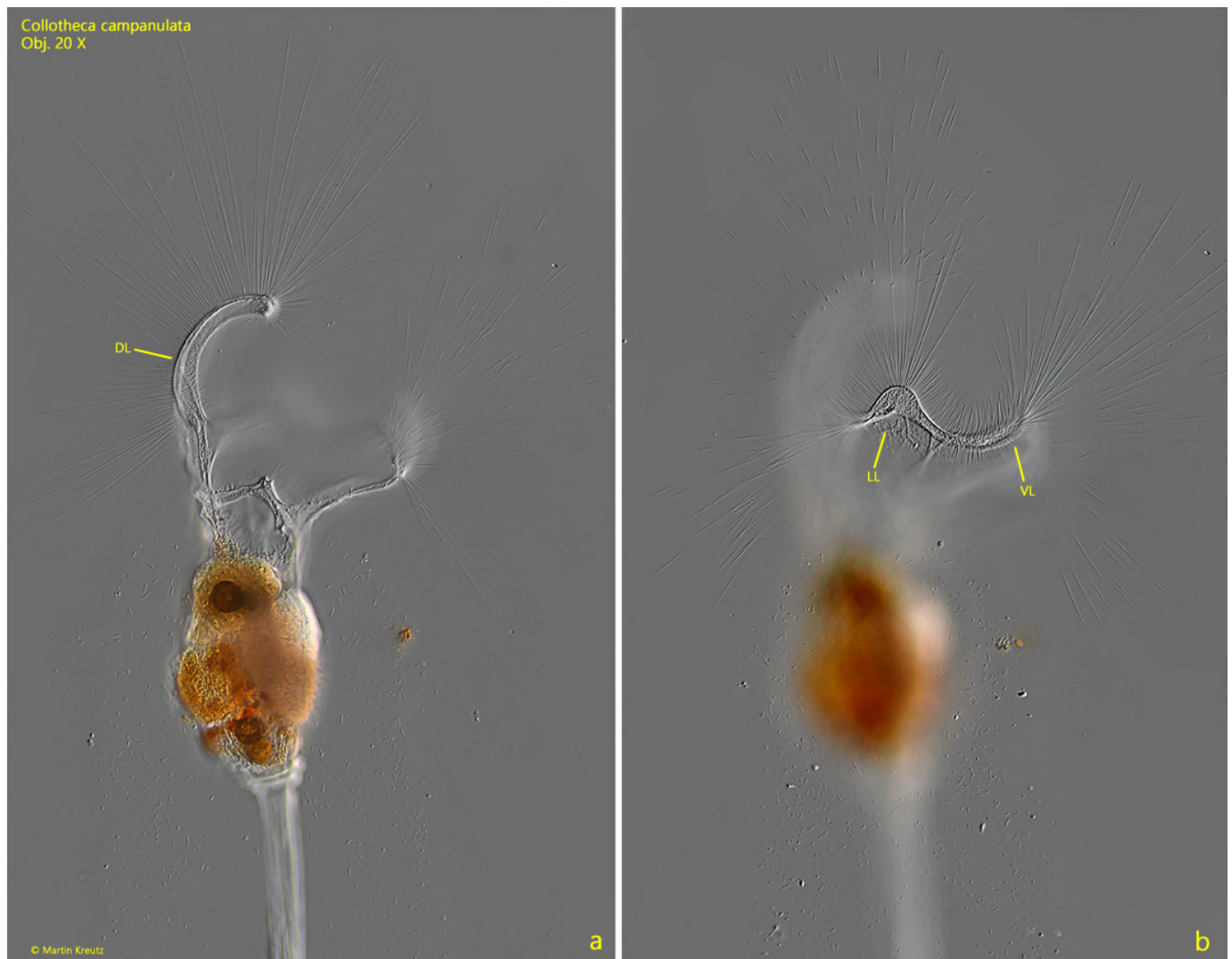


Fig. 3 a-b: *Collotheca campanulata*. Two focal planes of the corona. The dorsal lobe (DL) is bent inwards. The lateral lobes (LL) and the ventral lobe (VL) are small and rounded. Obj. 20 X.

Collotheca campanulata
Obj. 40 X

226 μm

232 μm

225 μm

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Fig. 4: *Collotheca campanulata*. The setae of the dorsal lobe are constantly 220-230 μm long (arrows). The distal ends of the setae are also significantly tapered. Obj. 40 X.

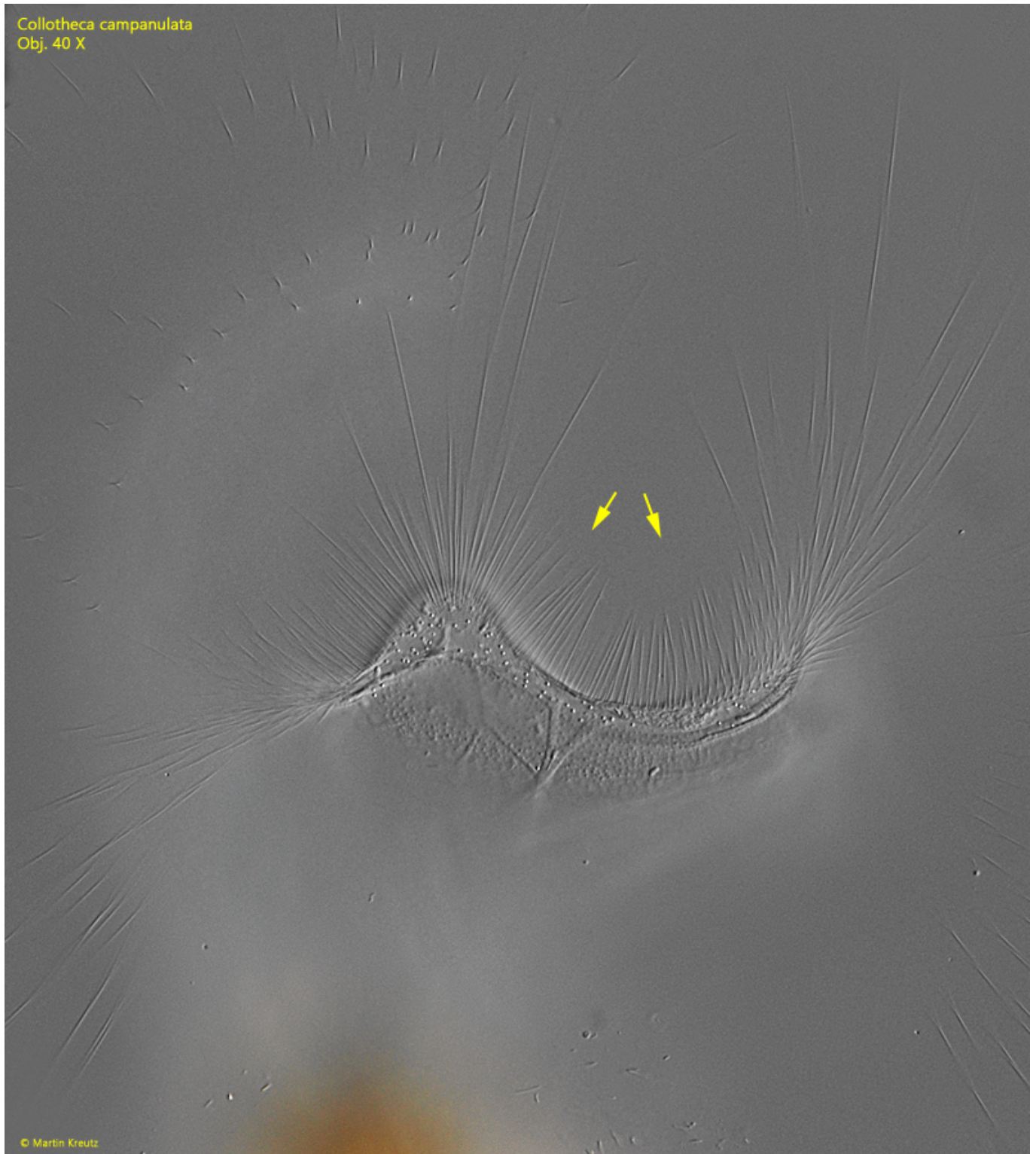


Fig. 5: *Collotheca campanulata*. In the interspaces between the lobes shorter setae are present (arrows). Obj. 40 X.

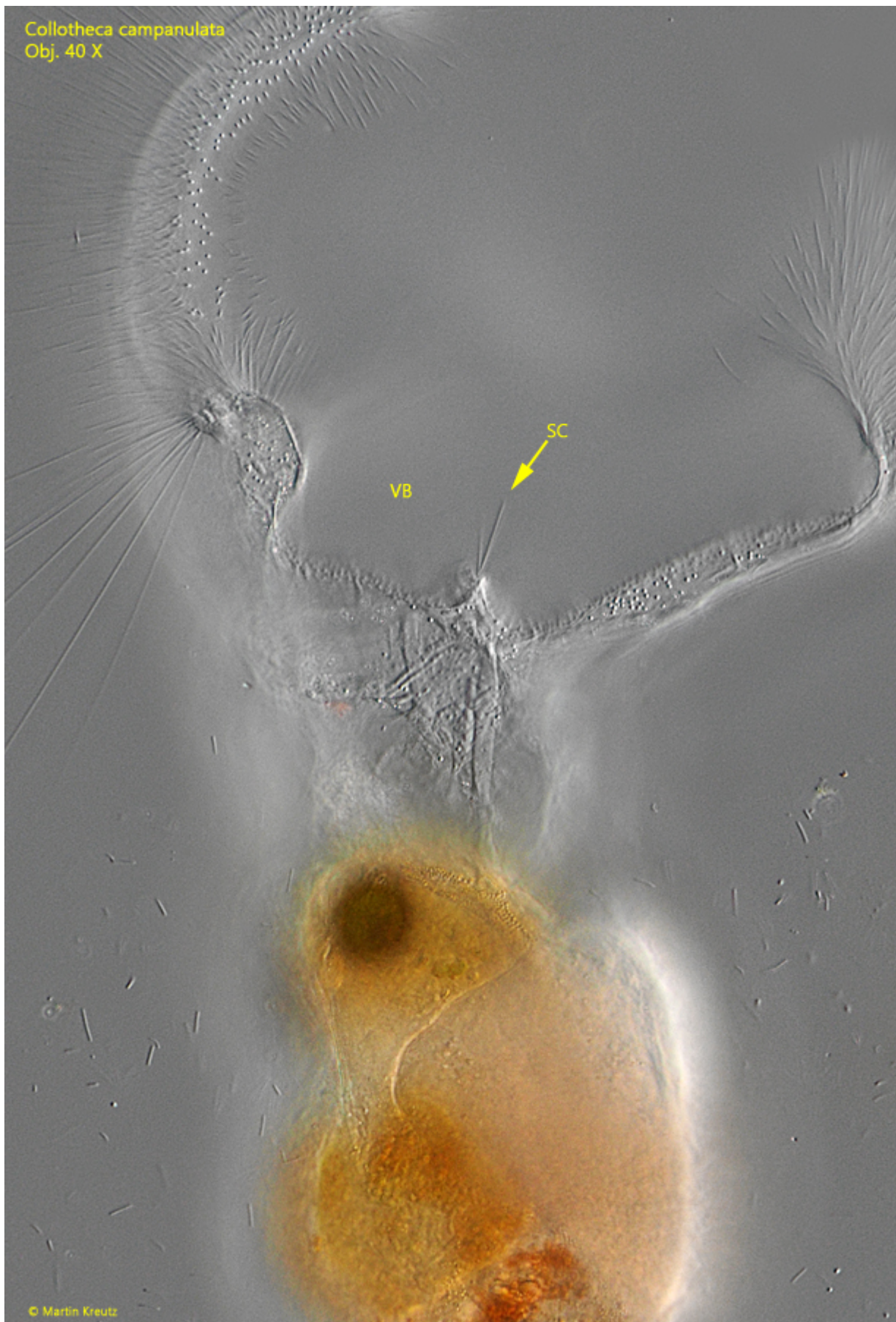


Fig. 6: *Collotheca campanulata*. At the bottom of the vestibulum (VB) sensory cilia (SC) are located for detection of trapped prey. Obj. 40 X.