

***Aspidiophorus oculifer* Kisielewski, 1981**

Most likely ID: n.a.

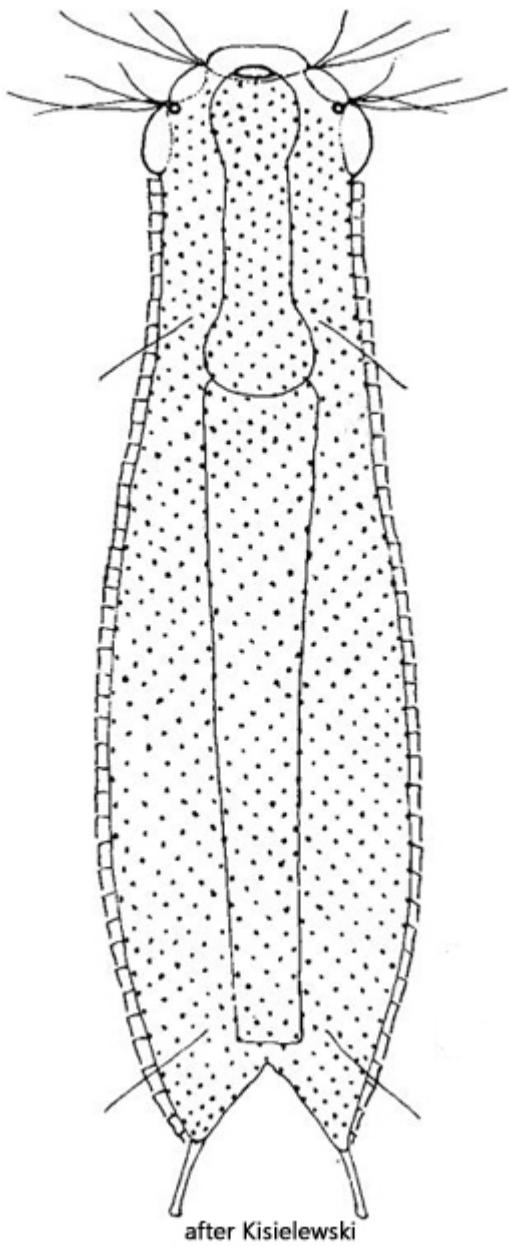
Synonym: n.a.

Sampling location: [Mühlweiher Litzelstetten, Simmelried](#)

Phylogenetic tree: [Aspidiophorus oculifer](#)

Diagnosis:

- body small sized, stocky, sole-shaped
- length 115–135 µm
- head 5-lobed with 2 lateral ocelli or ocellar granules
- hypostomium weakly developed
- pharynx slightly dumbbell-shaped
- dorsally 17–22 longitudinal rows of leaf-shaped scales
- dorsal scales 2.5–4 µm long, distal end tapered
- ventral field with 9–10 rows of small keeled scales
- two spined terminal scales ventrally
- adhesive tubes short, end in notches



Aspidiophorus oculifer

Aspidiophorus oculifer is described as a rare species (Schwank, 1990) and I have so far only found 2 specimens. The first was among floating aquatic plants in the [Mühlweiher Litzelstetten](#) and the second specimen in the mud of the [Simmelried](#).

My specimens were slightly smaller at 100 µm and 111 µm than those reported by Schwank (115–135 µm). A key identification feature are the ocelli (also called pseudocells), which can sometimes also consist of an aggregation of ocellar granules, as was the case with my specimens (s. fig. 2). The dorsal scales of *Aspidiophorus oculifer* are very small and their shape is difficult to discern due to their overlapping arrangement. Only when the scales can be detached by shifting the cover glass does their shape, similar to a birch leaf, become visible (s. fig. 4). In my specimens, the dorsal scales were 3.6-3.9 µm long.

The narrow, keeled scales on the ventral side could only be recognized in a strongly

compressed specimen. They are also difficult to contrast in DIC. Terminally, two oval scales with a keel and a short spine sit on the ventral side (s. figs. 5 and 6).

Aspidiophorus oculifer differs from the similar species *Aspidiophorus polonicus* mainly by the ocelli and the ventral scales. In *Aspidiophorus polonicus*, the ventral scales are absent or sparsely scattered, and only two narrow, keeled terminal scales are present. Additionally, *Aspidiophorus polonicus* is somewhat larger, measuring 152–178 μm in length, compared to *Aspidiophorus oculifer*.

Aspidiophorus oculifer
Obj. 100 X



Fig. 1 a-b: *Aspidiophorus oculifer*. L = 100 μ m. Two focal planes of a slightly

squashed specimen from dorsal. Obj. 100 X.

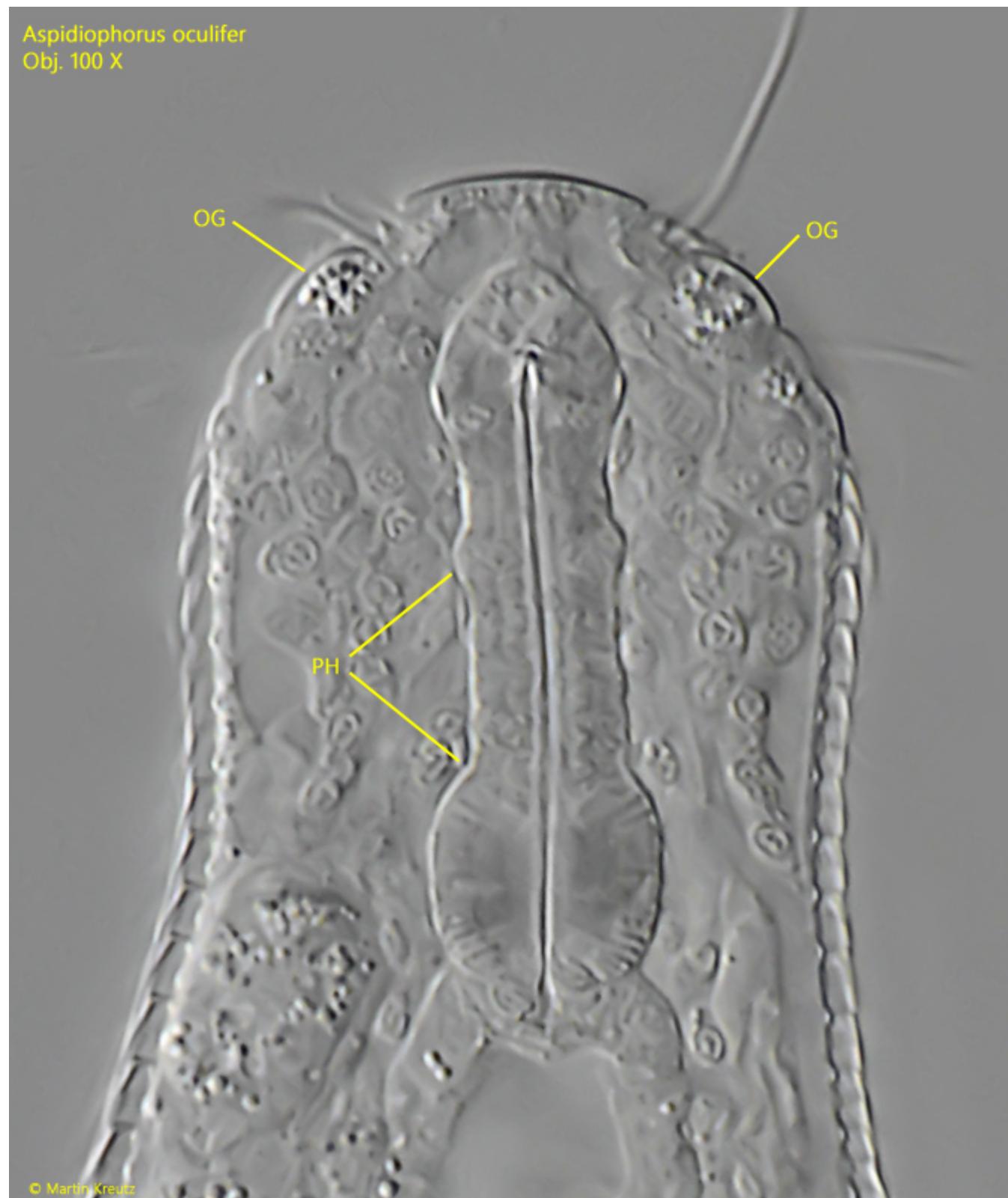


Fig. 2: *Aspidiophorus oculifer*. A crop from fig. 1 a with details of the head. Apically the ocellar granules (OG) visible. The pharynx (PH) is slightly dumbbell-shaped. Obj. 100 X.

Aspidiophorus oculifer
Obj. 100 X

10 μ m

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Fig. 3: *Aspidiophorus oculifer*. The dorsal scales in a squashed specimen. Obj. 100 X.

Aspidiophorus oculifer

Obj. 100 X

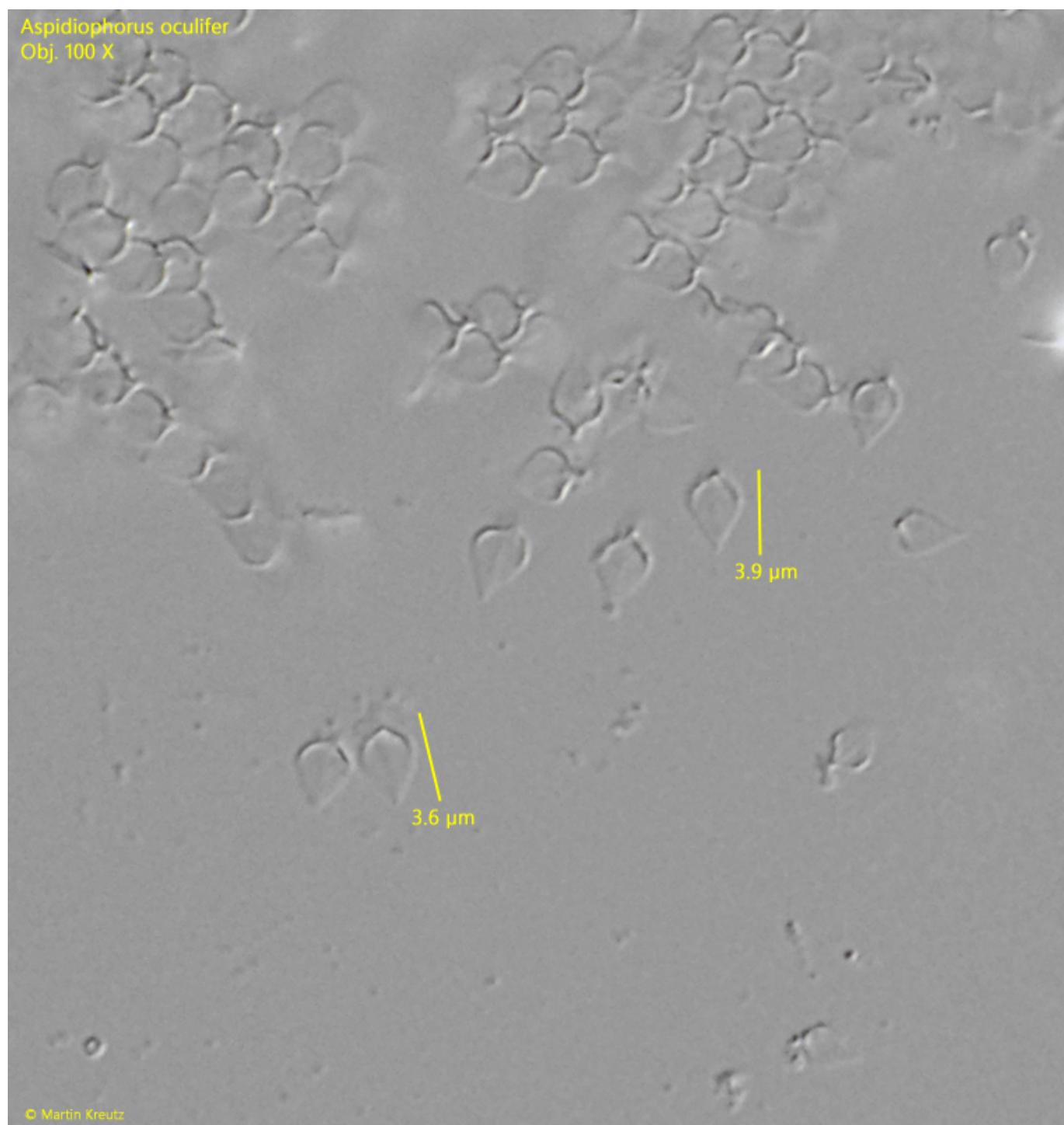
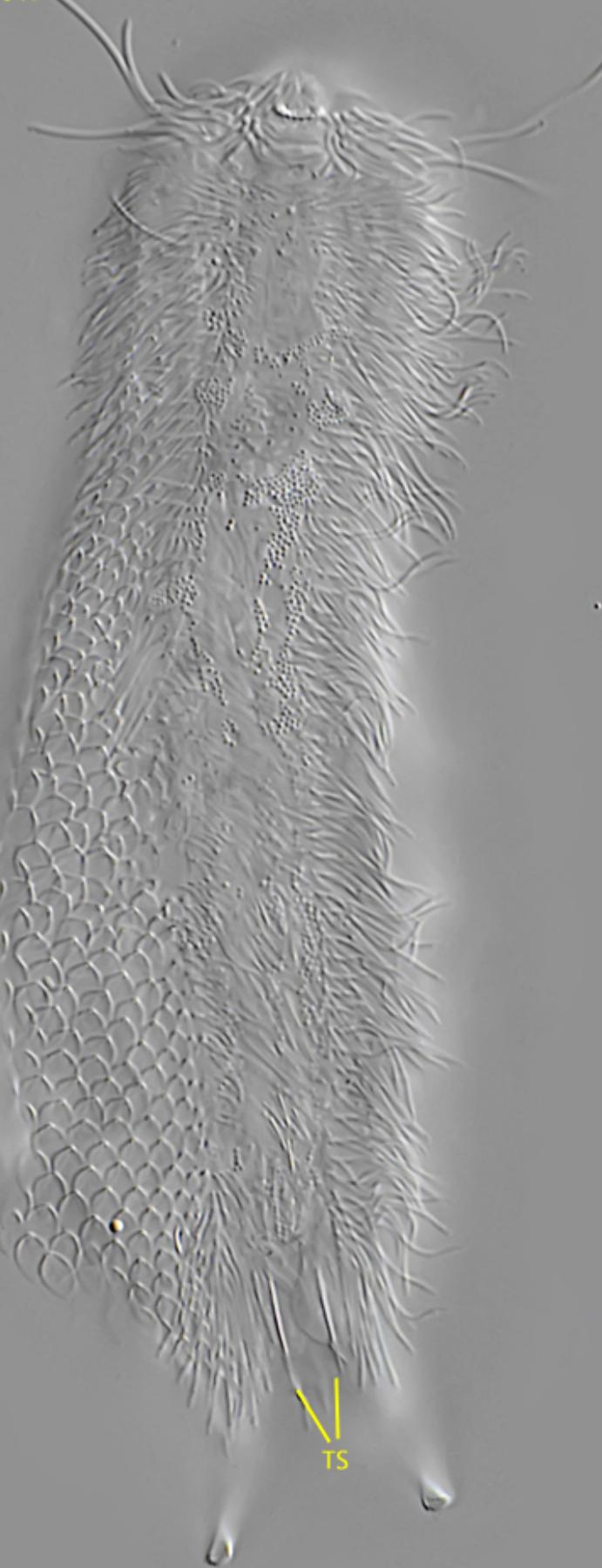


Fig. 4: *Aspidiophorus oculifer*. The detached leave-shaped scales are 3.6–3.9 μm long and a very delicate middle rib is visible. Obj. 100 X.

Aspidiophorus oculifer
Obj. 100 X



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Fig. 5: *Aspidiophorus oculifer*. L = 111 μ m. A squashed specimen from ventral. The two spined terminal scales (TS) are visible. Obj. 100 X.

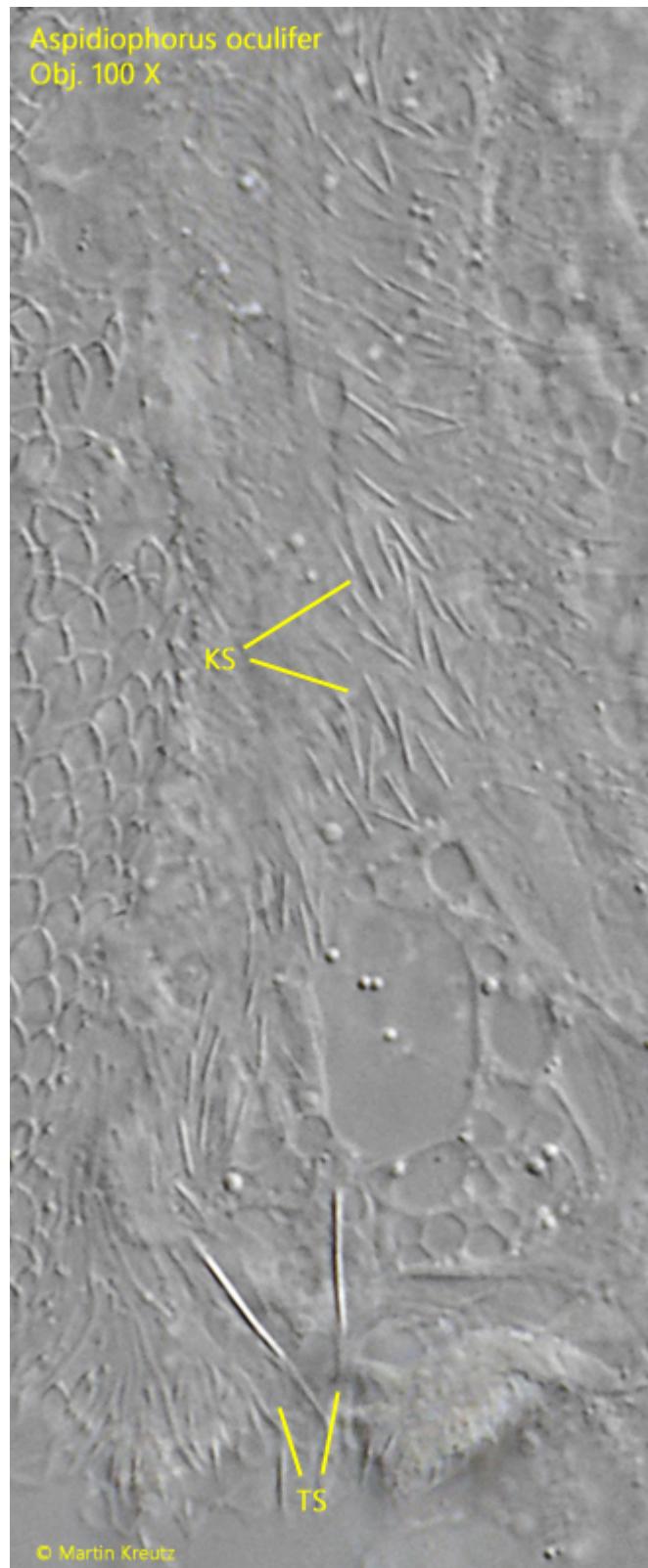


Fig. 6: *Aspidiophorus oculifer*. The small keeled ventral scales (KS) become only visible in a strongly squashed specimen. TS = terminal scales. Obj. 100 X.