

## ***Squatina* *bifurca* Bolton, 1884**

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

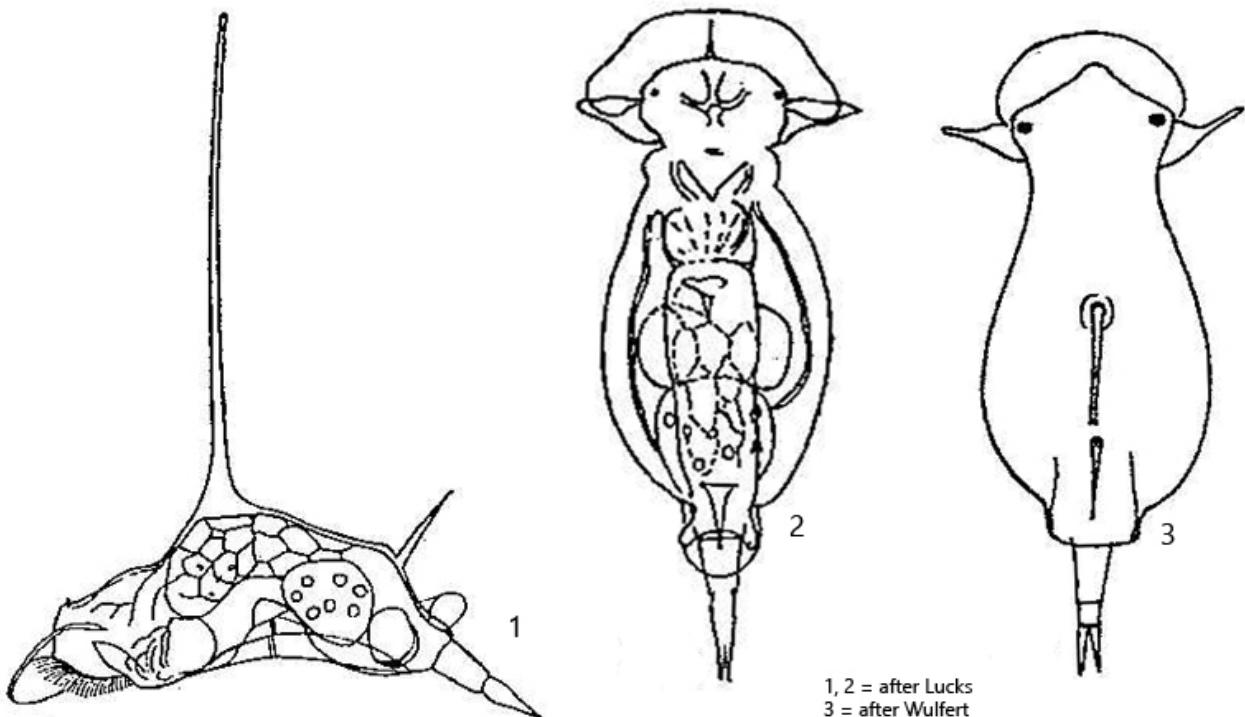
**Synonym:** n.a.

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

**Phylogenetic tree:** [\*Squatina\* \*bifurca\*](#)

**Diagnosis:**

- lorica oval with two distinct dorsal spines
- head shield large, often with two lateral indentations
- two large auricles below head shield
- length 122–182 µm
- two eyespots with lenses
- ventral shield absent
- foot with three segments
- a semicircular plate covering the first foot segment
- equal pair of slender, pointed toes



### *Squatinella bifurca*

I have only found two specimens of *Squatinella bifurca* so far. Both specimens come from the [Simmelried](#), in samples with decomposing plant masses. The species is very characteristic due to the two dorsal spines of different lengths, which are arranged one behind the other (s. figs. 1 a and 3). However, the second, smaller spine is easily overlooked because it is often covered by the dominant primary spine, which is about 100 µm long. In my specimens, the secondary spine was about 25 µm long.

The head shield is comparatively large for the body and two large, conically shaped auricles protrude below it. These may have a sensory function. In my specimens, the head shield had two slight lateral indentations, as drawn by Lucks (s. drawing 2, above). *Squatinella bifurca* is the only species within the genus *Squatinella* to have a dorsal, semicircular shield covering the first segment of the foot (s. fig. 2 a).



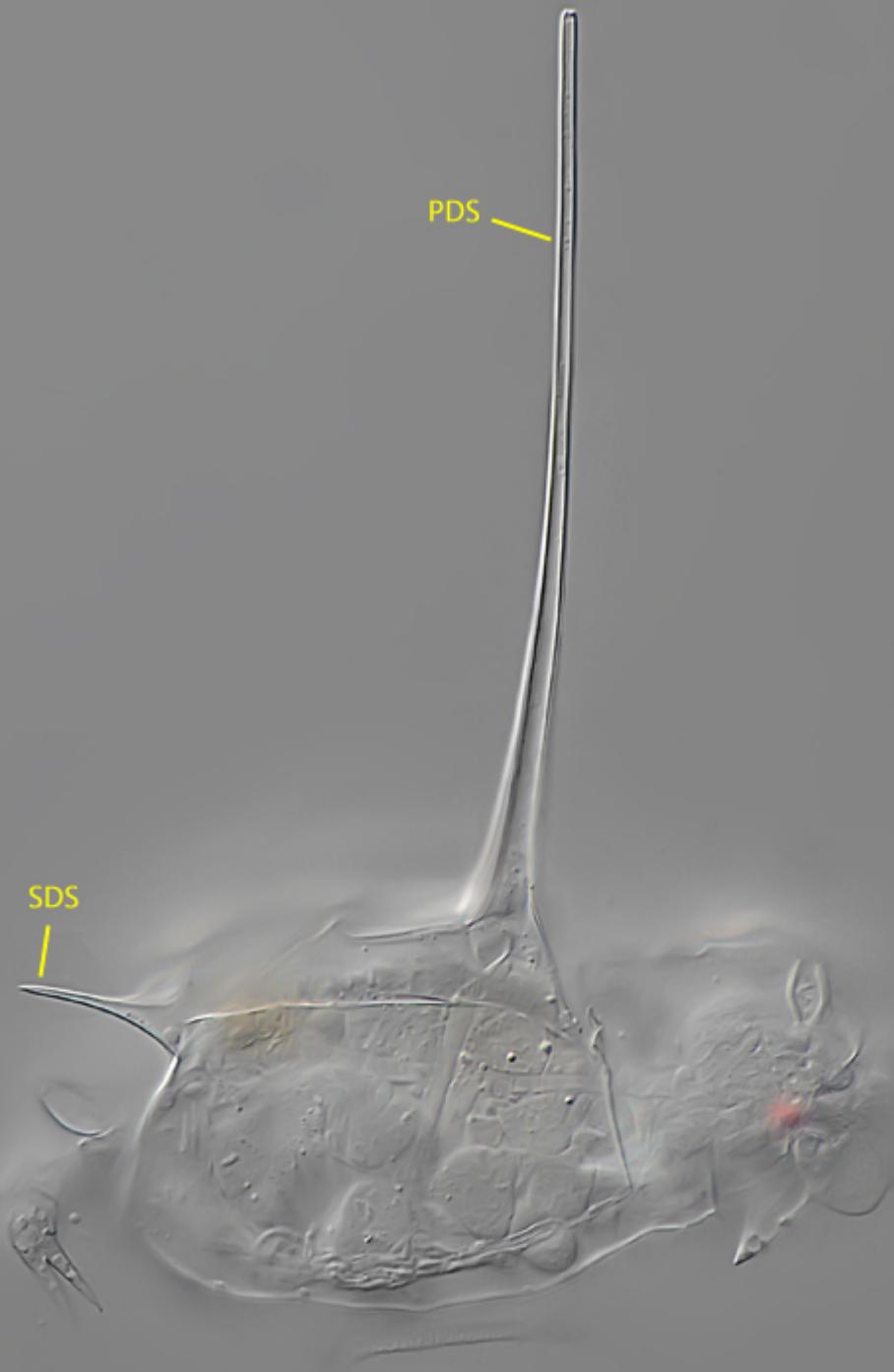
**Fig. 1 a-b:** *Squatinella bifurca*. L = 140  $\mu$ m. Two focal planes of a slightly squashed specimen from dorsal. Note the primary dorsal spine (PDS) and secondary dorsal spine (SDS). The primary spine has a length of 98  $\mu$ m and the secondary spine of 25  $\mu$ m. AU = auricles, HS = head shield. Obj. 60 X.

*Squatinella bifurca*  
Obj. 60 X



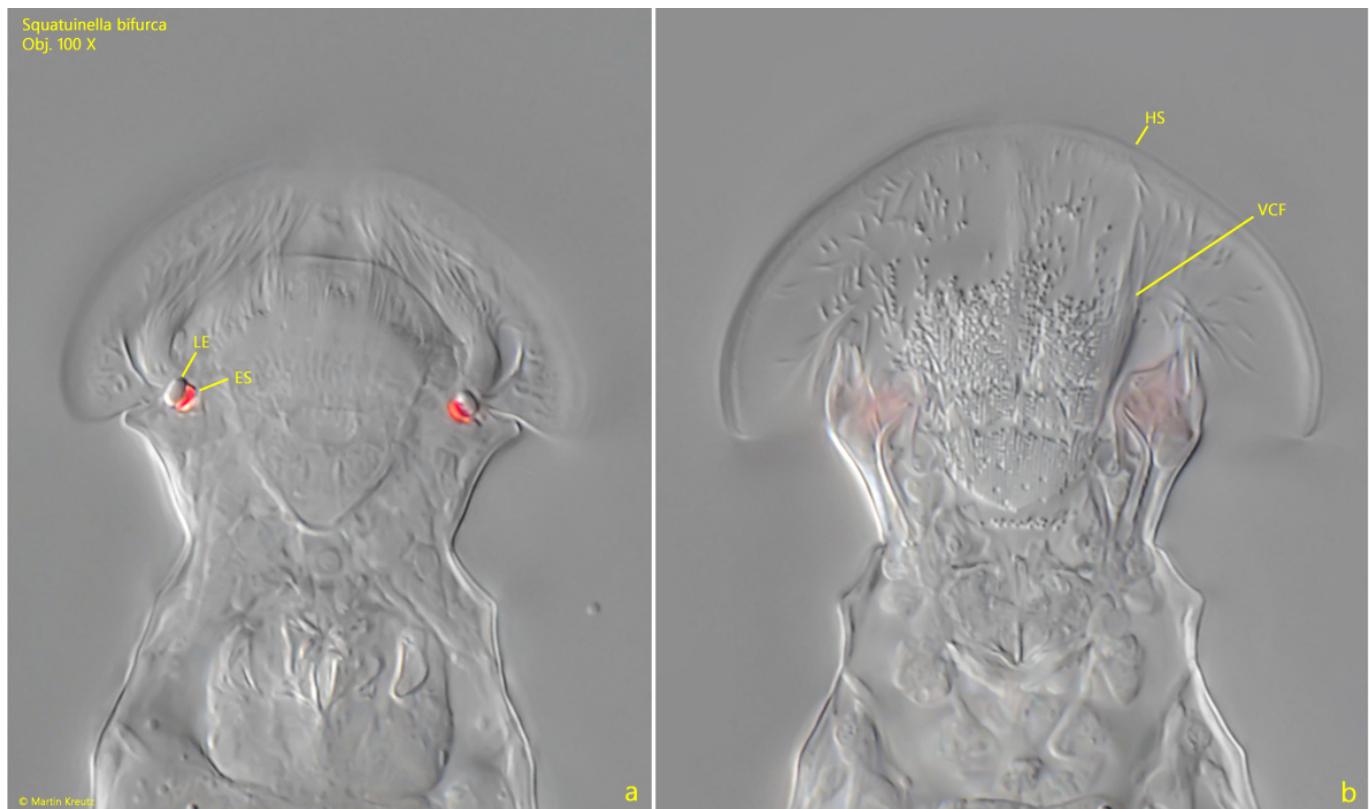
**Fig. 2 a-b:** *Squatinella bifurca*. L = 149  $\mu$ m. Two focal planes of a slightly squashed second specimen from dorsal. Note the semicircular foot plate (FP). 1-3 = three segments of the foot, AU = auricles, PDS = primary dorsal spine, SDS = secondary dorsal spine, TO = toes. Obj. 60 X.

*Squatina* bifurca  
Obj. 60 X



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**Fig. 3:** *Squatina* bifurca. Lateral view of a squashed specimen with the splayed primary dorsal spine (PDS) and secondary dorsal spine (SDS). Obj. 60 X.



**Fig. 4 a-b:** *Squatulinella bifurca*. Two focal planes of the head shield (HS) from ventral. The ventral field of cilia (VCF) is visible and the eyesposts (ES) with lenses (LE). Obj. 100 X.