

Brachonella fastigata

(Kahl, 1926) Jankowski, 1964

Most likely ID: n.a.

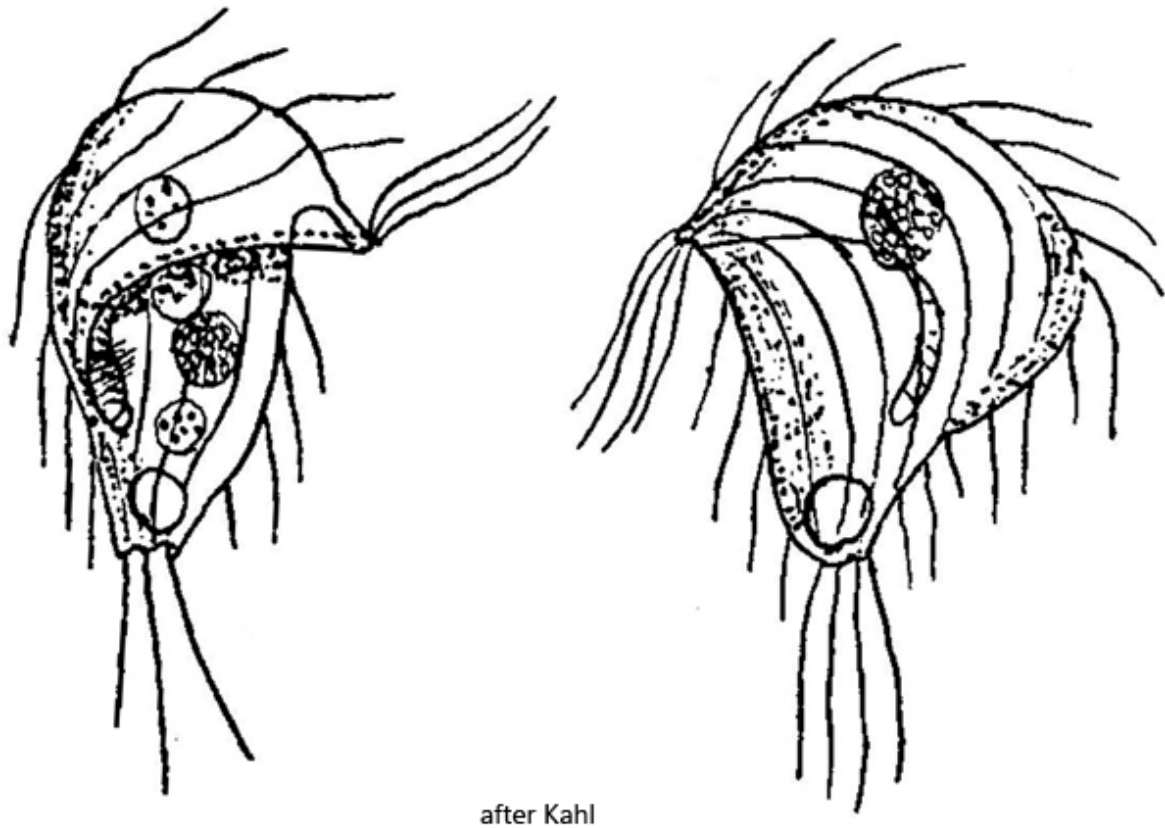
Synonym: *Metopus fastigatus*

Sampling location: [Simmelried](#)

Phylogenetic tree: [Brachonella fastigata](#)

Diagnosis:

- body broadly pyriform, apical dome overhangs left side in bead-shaped way
- right margin of body merges into the apical dome without bulge
- length about 50 µm
- cilia long, flexible and widely spaced
- adoral zone short with only 7–8 membranelles, limited to ventral side
- perizonal stripe longer than adoral zone
- globular macronucleus located in apical dome
- one spherical micronucleus adjacent to the macronucleus
- contractile vacuole large, terminal
- long and delicate caudal cilia

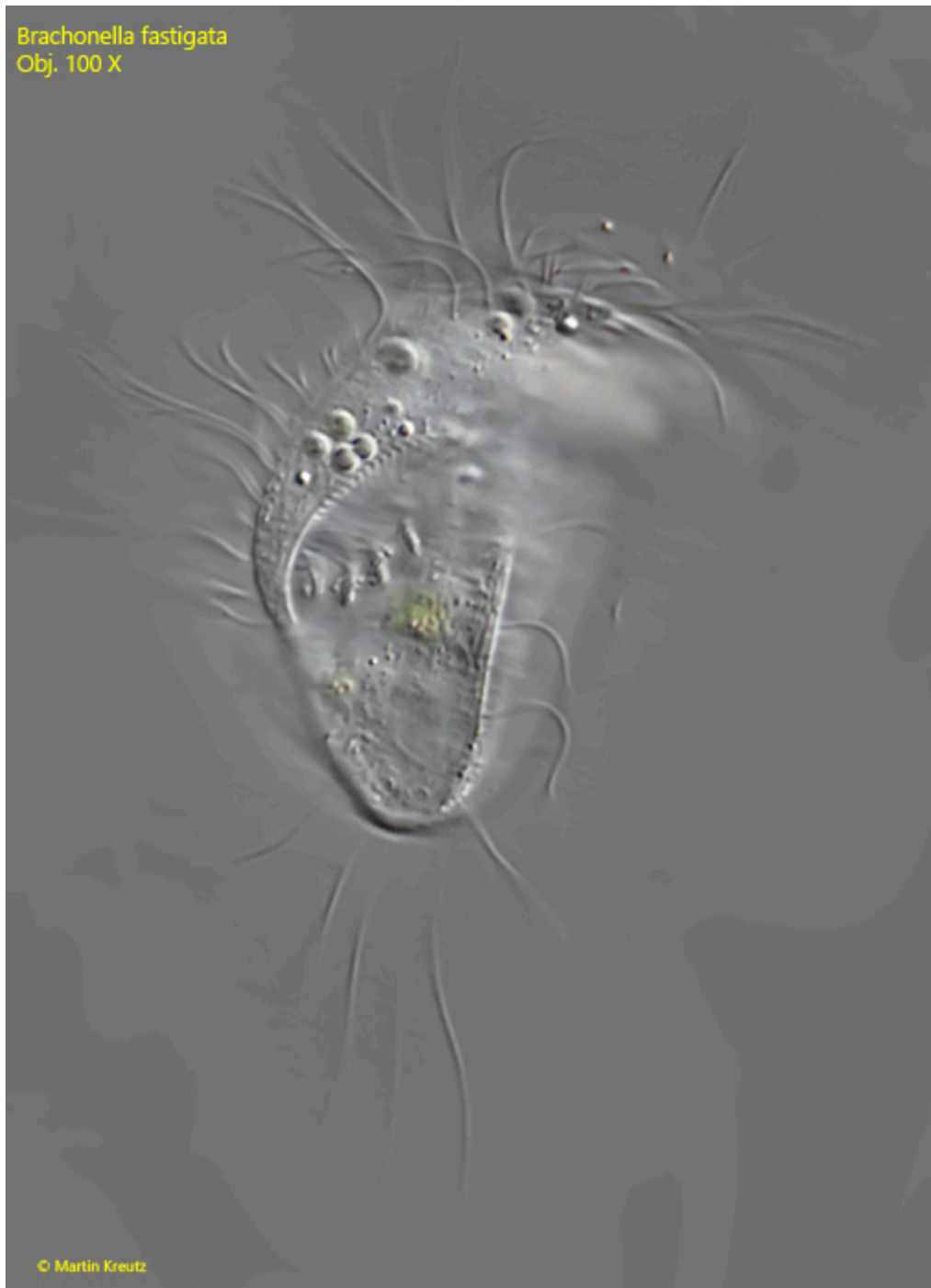


Brachonella fastigata

Brachonella fastigata was first described in 1926 by Kahl as *Metopus fastigatus*. Later the species was transferred to the genus *Brachonella* by Jankowski (1964).

So far I could detect *Brachonella fastigata* exclusively in the [Simmelried](#) where the species is quite common. *Brachonella fastigata* can be easily identified by the strongly overhanging bulge of the apical dome on the left side of the body. The right side of the body, on the other hand, is continuous with the apical dome without such a bulge. This gives the effect of a „peaked cap“ in lateral view. *Brachonella fastigata* swims slowly with rowing movements of the long cilia. The very long, soft caudal cilia are also conspicuous. I had the impression that the posterior pole of the cell is free of cilia, which arise in a ring around it. The specimens in my population were 50 – 58 μm long, which is slightly larger than described by Kahl, who states „maximum 50 μm “. Otherwise all characteristics agree with the description of Kahl.

Brachonella fastigata
Obj. 100 X



© Martin Kreutz

Fig. 1: *Brachonella fastigata*. L = 52 μm . A freely swimming specimen from ventral. Obj. 100 X.

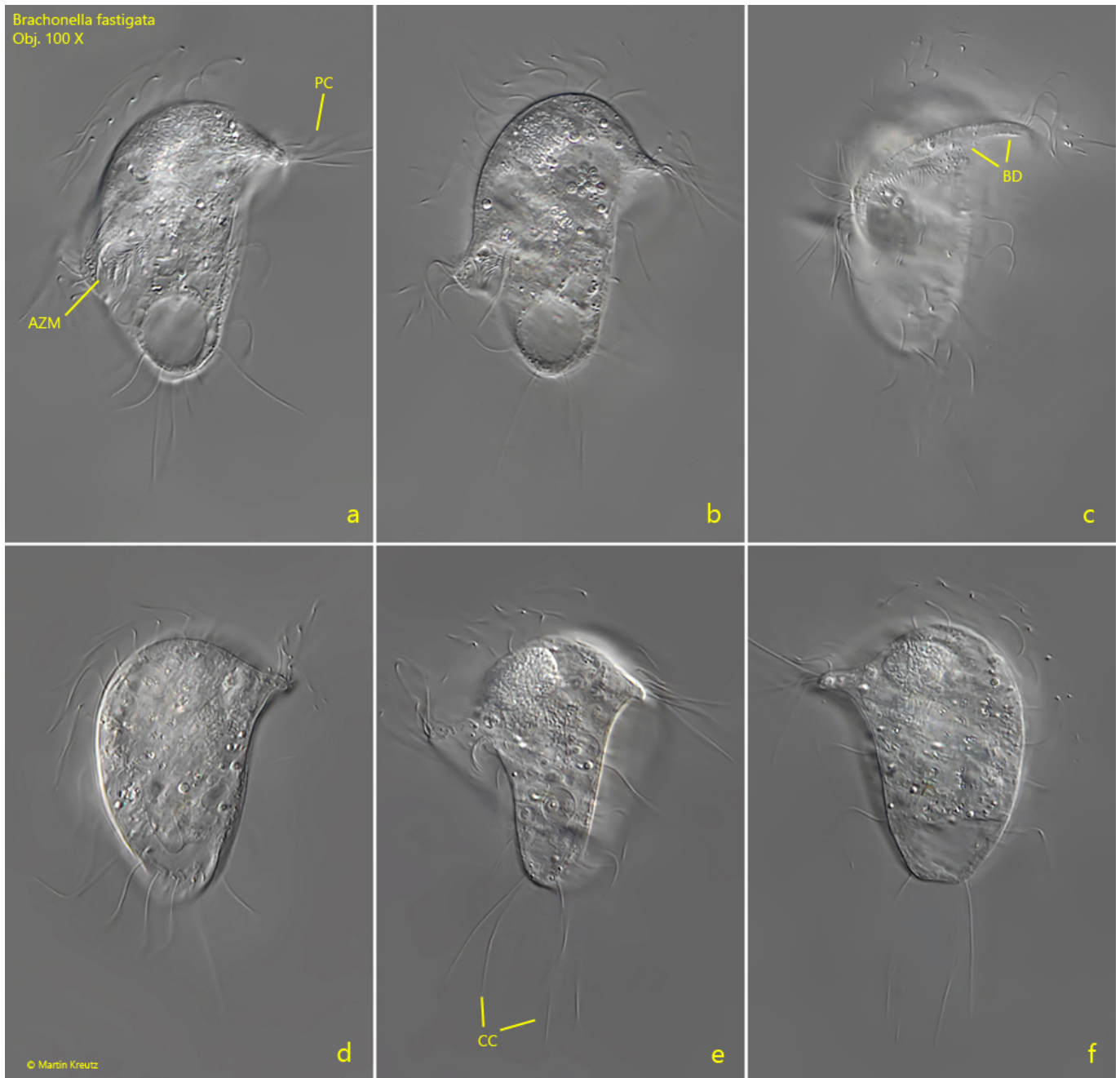


Fig. 2 a-f: *Brachonella fastigata*. L = 51 μ m. A second freely swimming specimen from ventral (a, b, c, d), left (e) and from dorsal (f). Note the bulge of the apical dome (BD) hanging over the left side. AZM = adoral zone of membranelles, CC = caudal cilia, PC = perizonal cilia. Obj. 100 X.

Brachonella fastigata
Obj. 60 X

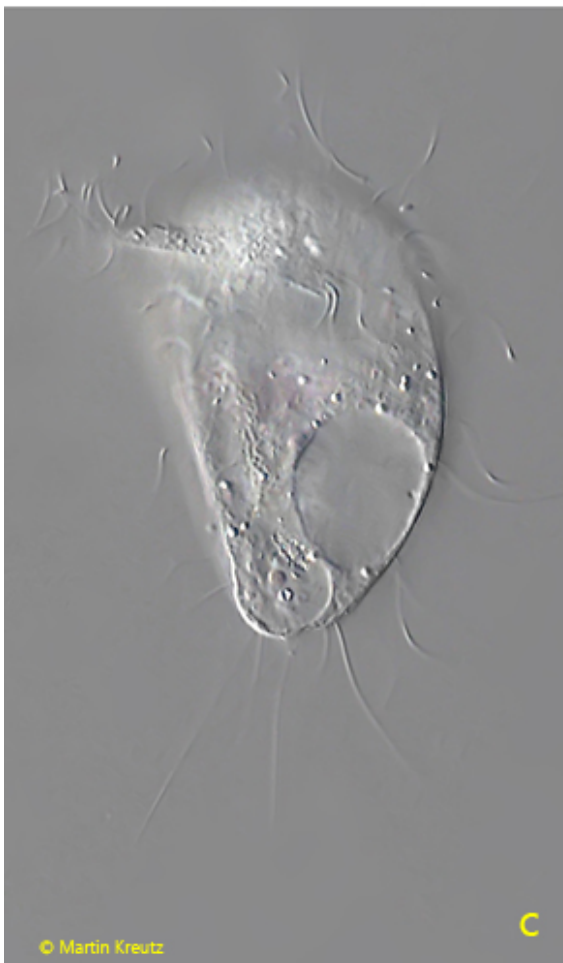
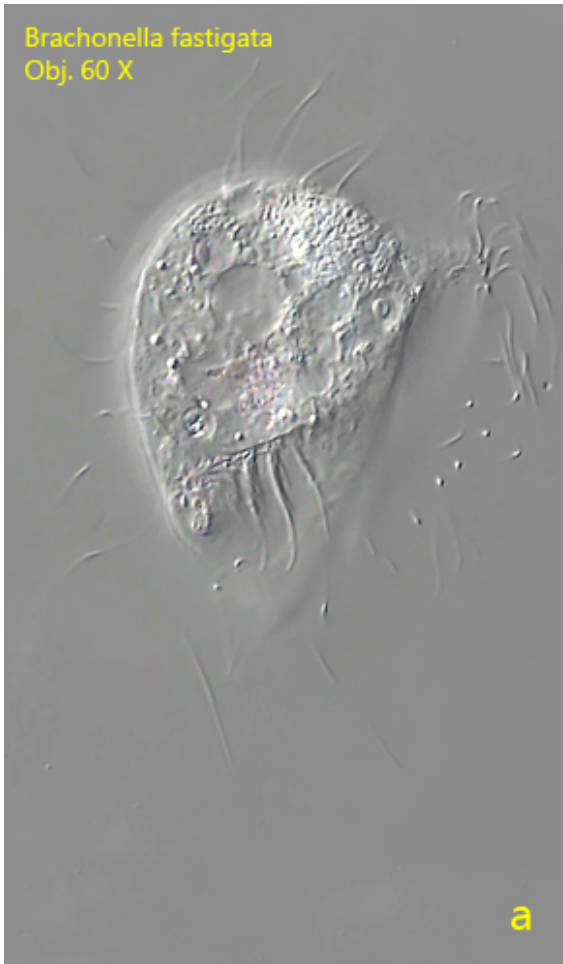
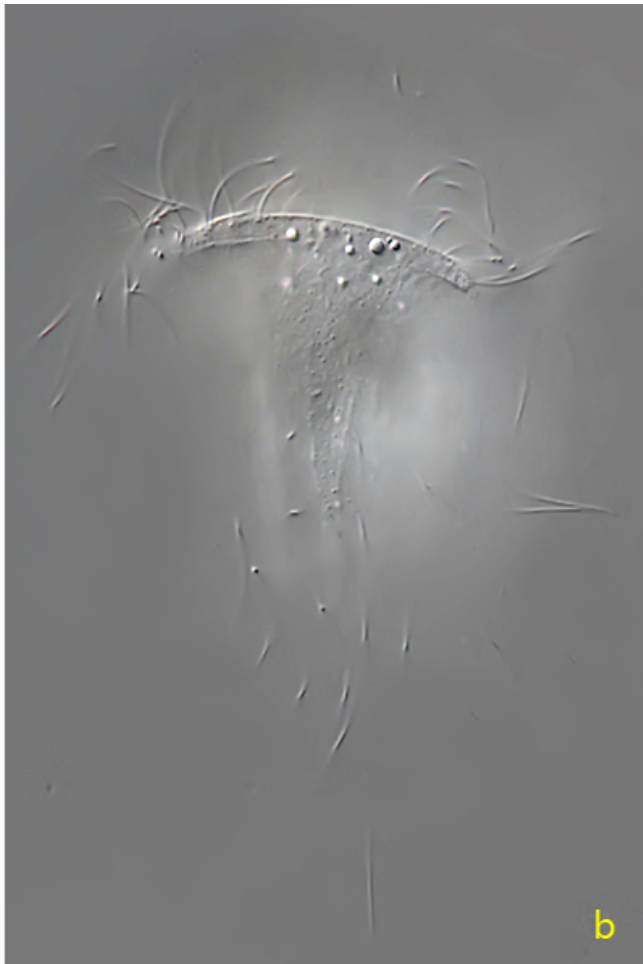
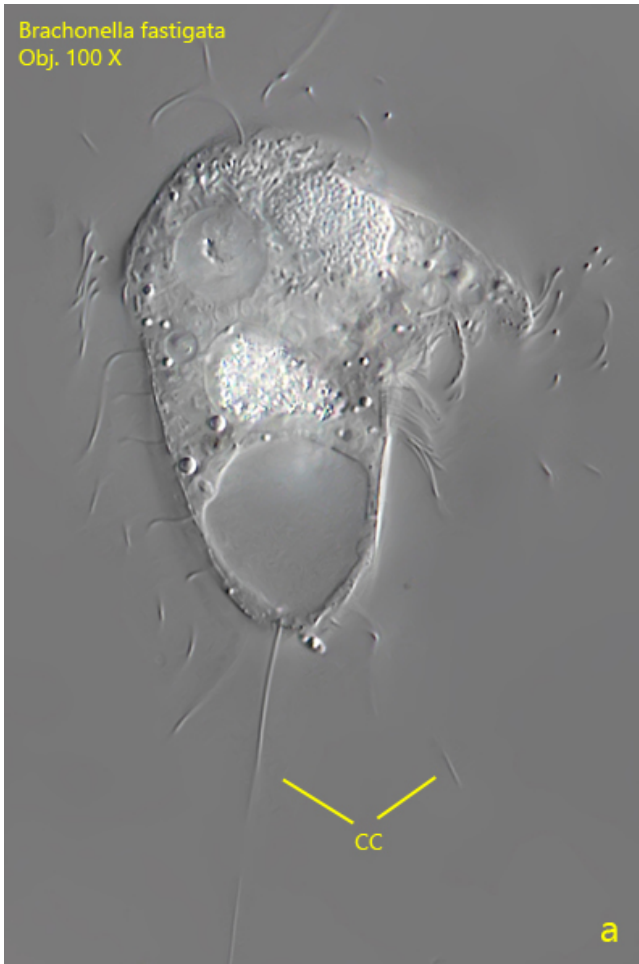


Fig. 3 a-d: *Brachonella fastigata*. L = 58 μm . A third freely swimming specimen from ventral (a, b) and dorsal (c, d). Obj. 60 X.

Brachonella fastigata
Obj. 100 X



© Martin Kreutz

Fig. 4 a-d: *Brachonella fastigata*. L = 52 μ m. A fourth freely swimming specimen from ventral (a), left (b) and dosal (c, d). CC =caudal cilia, CV = contractile vacuole, Ma = macronucleus, Mi = micronucleus. Obj. 100 X.



Fig. 5: *Brachonella fastigata*. A strongly squashed specimen. CC = caudal cilia, FV = food vacuole, Ma = macronucleus, Mi = micronucleus. Obj. 100 X.