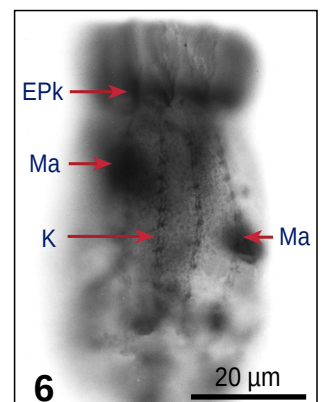
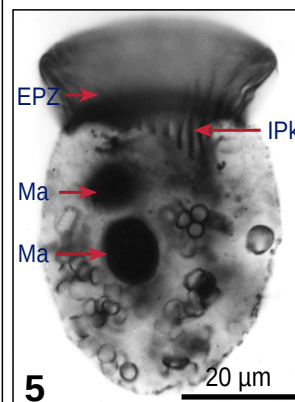
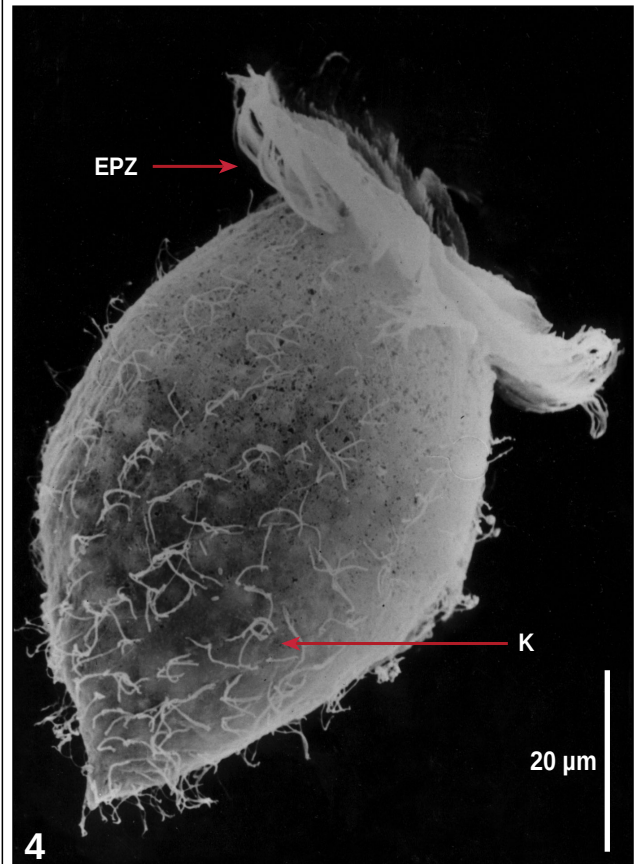
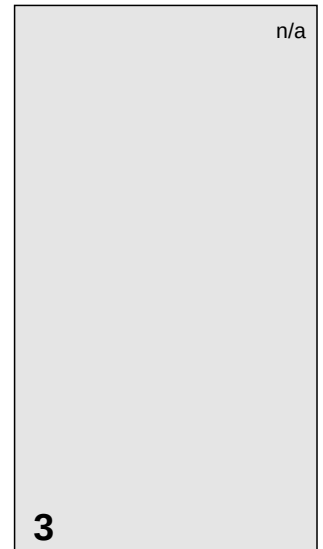
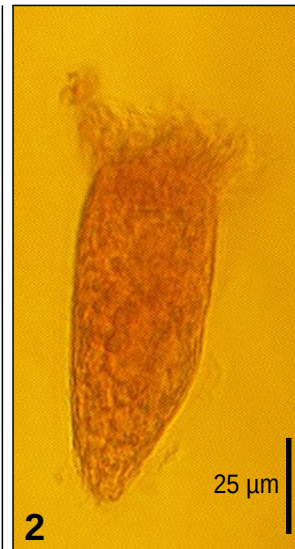
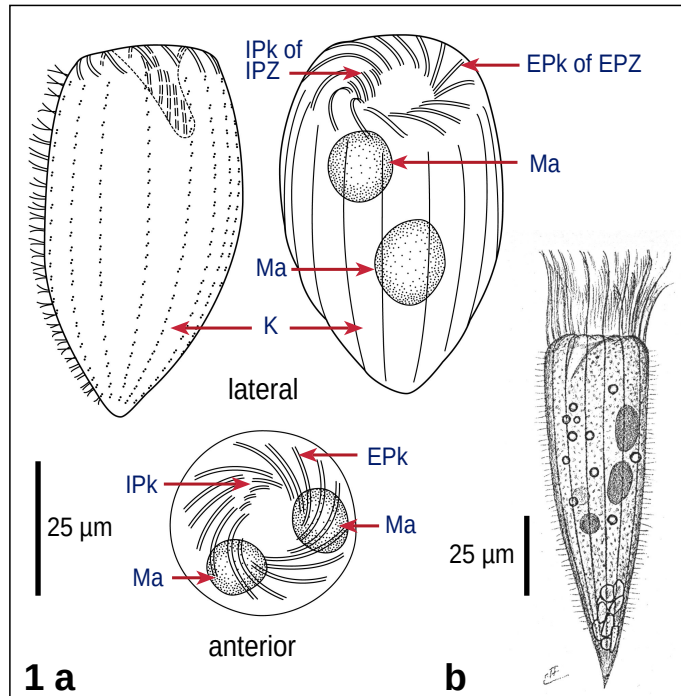


Strombidinopsis acuminatum Fauré-Fremiet, 1924



Key features

Cell elongate, conical, posterior gradually tapering; oral cavity acentric; 2 macronuclei, spheroid to ovoid; 15 longitudinal somatic kineties extend from anterior to posterior, ciliated, cilia 3-5 µm long

Measurements

Length:	90 (35-125) µm
Width:	35 (25-90) µm
No of EPk:	15 (14-16)
No of IPk:	3 (1-5)
No of K:	12-20
Ma diameter:	10 x 14 (6-14 x 8-25) µm
Biovolume:	63,000 µm ³

Movement

Swims slowly and straight

Food

Nanoflagellates and small diatoms

Ecological data

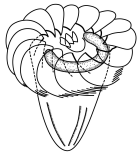
Temperature: 15-20 °C

Salinity: 20-33 ‰

References

Dale T & Lynn DH 1998; Fauré-Fremiet E 1924; Kahl A 1932; Lynn DH et al. 1991; Montagnes DJS & Taylor FJR 1994; Snyder RA & Ohman MD 1991

Fig 1 Line drawings: a. Protargol stained cells, showing kineties, oral structures and nuclei; b. Live specimen (from Fauré-Fremiet 1924). **Fig 2** Lugol's fixed cell. (**Fig 3** Lugol's fixed and DAPI stained cell, illustrating nuclear shape.) **Fig 4** SEM of Lugol's fixed cell. **Fig 5,6** Protargol stains, lateral view: 5. Nuclei and internal polykinetids; 6. Cell surface, showing the kineties.



Strombidinopsis acuminatum Fauré-Fremiet, 1924

Species description

Body elongate, **conical**, **posterior gradually tapering**, 90 (35-125) μm long, 35 (25-90) μm wide (Fig 1,2).

Oral cavity acentric; 15 (14-16) EPks and 3 (1-5) IPks; EPZ and IPZ not completely separate: 4-5 IPks are separate, the others are extensions of EPks (Fig 1a,5,7b); EPZ is a closed circle with cilia of unequal length (Fig 7a,b,8); paroral kinety situated beneath and close to the EPks.

12-16 longitudinal somatic kineties, extend along entire cell length (Fig 1,4,6) with 20-50 dikinetids, both kinetosomes ciliated, cilia 3-5 μm long; incomplete somatic kineties can occur – lacking either posterior or anterior ends.

Two macronuclei, spheroid to ovoid (Fig 1,5,6).

Similar species

S. lohmanni (more somatic kineties), *S. multiauris* (interpolykinetidal ridges and granules, EPZ divided in 2 distinct zones, more kinetosomes per kinety, larger), *S. spiniferum*, *Strobilidium marinum* (more EPks, less somatic kineties); *Strobilidium pelagicum* (somatic kineties not composed of dikinetids).

List of synonyms

1991 *Strombidinopsis cheshiri* Snyder & Ohman, Trans Am Microsc Soc 110: 239-240, Fig 1,2.

1994 *Strombidinopsis cheshiri* Montagnes & Taylor, J Euk Microbiol 41: 576-578, Fig 7-9.

Taxonomical remarks

Based on an improved redescription of *S. acuminatum*, Dale & Lynn (1998) synonymised *S. cheshiri* with *S. acuminatum*.

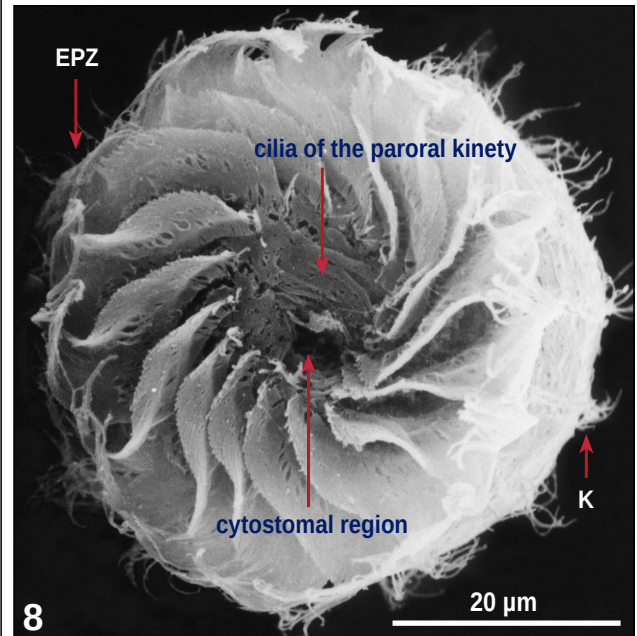
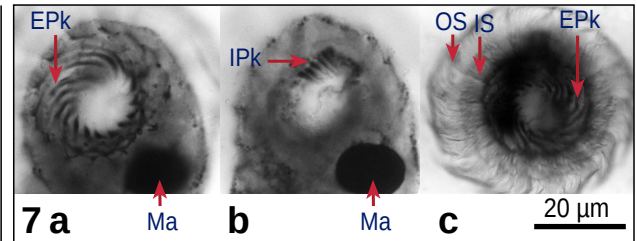


Fig 7a-c Apical view of protargol-stained cells, showing details of the oral structures: a. Above the cell (showing the cilia of the EPk); b. At the base of the cilia, showing the EPk; c. Within the cell (showing the IPk), OS - outer segment, IS - inner segment. **Fig 8** SEM image, apical view of the oral region.

Notes