

*Vorticella aquadulcis* complex (originals from a population attached to *Fragilaria* in Lake Mondsee, Austria. 17–20, in vivo; 21, 25, 26, scanning electron micrographs; 22, silver nitrate impregnation; 23, 24, 27, protargol impregnation). 17–19: Extended specimens showing pyriform shape, coarse pellicle striation, ellipsoidal macronucleus, and short stalk. Arrow in (19) denotes anlage of aboral ciliary wreath. 20: Squeezed specimen showing macronucleus. 21, 25, 26: Anterior polar view (asterisk marks contracted oral opening), lateral view, and oblique posterior polar view of contracted specimens. Note coarse pellicle striation and short, helically contracted stalk. 22: Silverline system. 23, 24, 27: Strongly developed contractile apparatus (myoneme system) in anterior polar, posterior polar and lateral view (cp. Figures 14–16). AC = adoral ciliary spiral, AW = anlage of aboral ciliary wreath, MA = macronucleus, MY = myonemes, S = scopula (stalk attachment site).

Plate 21. *Mallomonas*, *Mallomonas* 8.

a–c. *Mallomonas galeiformis*. – a: Scale with dome. – b: Domeless scales (Canada, Nicholls 1990b). – c: Bristle with lance-shaped tip (Canada, Nicholls 1988a).

d–e. *M. corcontica*. – d: Scale. – e: Bristle with lance-shaped tip (Canada, Nicholls 1982).

f–h. *M. sphagniphila*. – f: Scales. – g: Dentate bristles. – h: Lance-shaped bristles (Nicholls 1987c).

i–l. *M. acaroides*. – i: Scales, SEM (Bulgaria, Kristiansen 1971). – j: Scale (Denmark, Asmund & Kristiansen 1986). – k: Helmet-shaped bristle (Denmark, JK). – l: Serrated bristle (Denmark, Asmund & Kristiansen 1986).

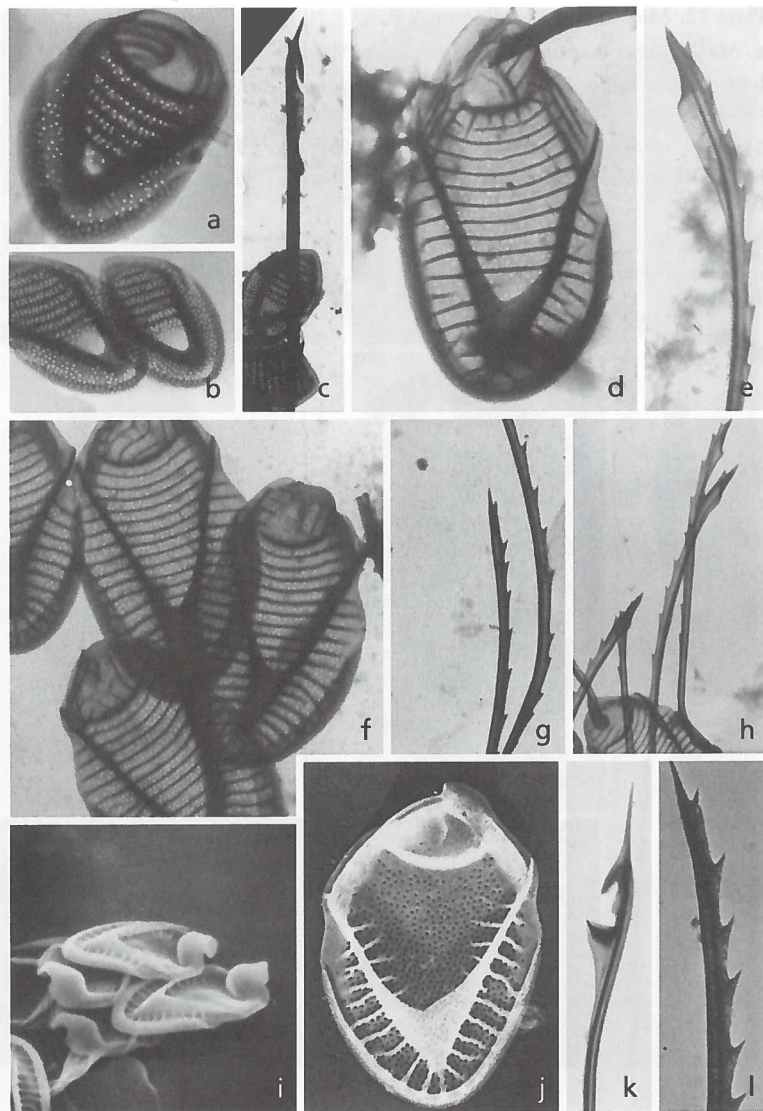


Plate 38. *Synura*, Petersenianae 2.

a-e. *Synura petersenii*. - a-b: Body scales (Denmark, JK). - c: Small caudal scale (Greenland, JK). - d: Long caudal scale (Denmark, JK). - e: Very long caudal scale (Greenland, JK).

f. *S. petersenii* f. *asmundiae*. - Scales (Sweden, Cronberg & Kristiansen 1980).

g. *S. petersenii* f. *bjoerkii*. - Scale (Sweden, Cronberg & Kristiansen 1980).

h. *S. petersenii* f. *bonaerensis*. - Scale, SEM (Argentina, Vigna 1979).

i. *S. petersenii* f. *columnata*, SEM. - Scale (U.S.A., Siver 1988d).

j-l. *S. petersenii* f. *glabra*. - j: Body scale with short struts. - k: Body scale without struts. - l: Caudal scale without struts (Denmark, JK).

m-n. *S. petersenii* f. *kufferathii*. - m: Apical scale. - n: Body scale (Greenland, JK).

o. *S. petersenii* f. *praefracta*. - Scale. Inserted: spine tip at higher magnification (Hungary, Barreto 2005).

p. *S. petersenii* f. *taymyrensis*. - Scale (Siberia, JK).

q. *S. petersenii* f. *truttae*, SEM. - Body scales (U.S.A., Siver 1987).

