Subfamily BOLBOLAIMINAE subfam.n.

Diagnosis. Microlaimidae. Body length 1–2 mm. Cuticle annulate, sometimes ornamented with dots. Second and third crowns of cephalic sense organs setose or small, but then stout, cephalic setae close to front end. Buccal cavity strongly sclerotized, denticles may be present. Pharyngeal bulb present, terminal bulb of oesophagus large and oval. Excretory pore at level of or posterior to nerve ring. Copulatory apparatus strongly sclerotized, usually with gubernacular apophyses directed dorsally to dorsocaudally.

Type genus: Bolbolaimus Cobb, 1920

Remarks. In the strong sclerotization of the buccal cavity, the shape of the oesophagus and sclerotization of its lumen, and the sclerotization of the copulatory apparatus, this subfamily provides a link between the Microlaimidae and the Desmodoridae. *Bolbolaimus* is the only known genus.

Bolbolaimus Cobb, 1920

syn. Pseudomicrolaimus Sergeeva, 1976 syn.n.

Type species: Bolbolaimus pellucidus Cobb, 1920

Remarks. I do not agree with Luc & De Coninck (1959), who synonymized Bolbolaimus with Chromaspirina Filipjev, 1918. Neither the stout cephalic sense organs, the structure of the buccal cavity nor the gubernaculum of the type species B. pellucidus are significant features for such a synonymization. The characters of the female reproductive system, cuticular ornamentation, buccal cavity and oesophagus indicate that Bolbolaimus should be eliminated from the Spiriniidae and included in the Microlaimidae with affinities to the Desmodoridae (see above).

Sergeeva (1976) established the genus *Pseudomicrolaimus* (type species *P. murinae* Sergeeva, 1976) within the Microlaiminae; unfortunately she only compared its characters with those of *Microlaimus*, but it agrees in all respects with *Bolbolaimus*. The two genera are congeneric, and *Pseudomicrolaimus* is thus a junior synonym of *Bolbolaimus*.

The following *Microlaimus* species are transferred to *Bolbolaimus* because the structure of the buccal cavity and oesophagus, the type of cuticular ornamentation and the degree of sclerotization of the copulatory apparatus: *M chitwoodi*, *M. crassiceps*, *M. teutonicus* and *M. wieseri*. *?Bolbolaimus* sp. described by Riemann 1966 is for the same reasons included in the genus; I propose the new name *Bolbolaimus riemanni* nom.nov.

The very short descriptions of *B. amabilis* De Man (1922, p. 117) and *B. cobbi* Chitwood (1937 (1938), fig. 61*E-F*) do not provide sufficient information to distinguish them from the other members of the genus; they are regarded as species inquirendae.

Key to the species of Bolbolaimus

1. Cephalic sense organs stout; cuticle differentiated laterally

B. pellucidus Cobb, 1920**

_	Cephalic sense organs setose; cuticle not differentiated	
	laterally	2
2.	Cuticle annulate and without ornamentation	3
	Cuticle annulate and with ornamentation as dots or longi-	
	tudinal bars	8
3.	Buccal cavity without denticles	4
	Buccal cavity with denticles	6
	Amphids 33% of head diameter, situated behind cephalic	
	setae: tail 2×anal diameter	
	B. wieseri (Hopper, 1961) comb.n., syn. Microlaimus wiese	ri
	Hopper, 19	
_	Amphids ca. 50% of head diameter, situated between	
	cephalic setae; tail ca. 4×anal diameter	5
5.	Cephalic setae 1/6×head diameter	
	B. chitwoodi (Gerlach, 1950) comb.n., syn. Microlaimus chi	t-
	woodi Gerlach, 193	50
_	Cephalic setae ca. 1/3×head diameter	
	B. crassiceps (Gerlach, 1953) comb.n., syn. Microlaimus crass	i-
	ceps Gerlach, 19:	53
6.	Buccal cavity with two rows of denticles	
	B. denticulatus Cobb, 192	20
	Buccal cavity with an area of denticles	7
7.	Buccal cavity with one large dorsal tooth at the dorsal margin	
	B. dentatus (Allgén, 1935) comb.n., syn. Pseudomicrolaimi	
	dentatus (Allgén, 193	5)
_	Buccal cavity with two large teeth at the dorsal margin.	
	B. murinae ((Sergeeva, 1976) comb.n., syn.) Pseudomicrolaim	
	murinae Sergeeva, 19	
	Buccal cavity without denticles	9
	Buccal cavity with denticles B. punctatus Cobb, 19	20
9.	Spicules 1.2×anal diameter; gubernaculum slender sticklike	
	with a joint line (apophysis?)	
_	B. teutonicus (Riemann, 1966) comb.n., syn. Microlaimus te	
	tonicus Riemann, 19	66
_	Spicules 0.8×anal diameter; gubernaculum short, surround-	
	ing the spicules and with dorsally directed apophyses	
	B. riemanni nom.nov., syn. ?Bolbolaimus sp., see Riemann, 190	6