



Checklist of the subfamily Adoncholaiminae Gerlach and Riemann, 1974 (Nematoda: Oncholaimida: Oncholaimidae) of the world: genera, species, distribution, and reference list for taxonomists and ecologists

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Abstract

Background

Adoncholaiminae is one of the seven subfamilies in the free-living aquatic nematode family Oncholaimidae. Nematodes in Adoncholaiminae are found from various water environment of the world. However, a checklist of all Adoncholaiminae species including full literature, especially information of experimental (not taxonomic) works, has not been updated for more than 40 years.

New information

A revised checklist of the subfamily Adoncholaiminae of the world is provided. It contains 31 valid and 13 invalid species names in four genera with synonyms, collection records,

and full literature from 1860's to 2015 for each species. A literature survey of total 477 previous papers was conducted in this work, and 362 of them are newly added to checklist.

Keywords

aquatic nematodes, marine, brackish, freshwater, oncholaimid, synonymy, taxonomy, systematics, nomenclature, ecology

Introduction

Adoncholaiminae Gerlach and Riemann, 1974 is a subfamily of free-living aquatic nematode family Oncholaimidae Filipjev, 1916 (phylum Nematoda). It consists of four genera (Lorenzen 1981a, Lorenzen 1994, Shimada and Kajihara 2014), viz. *Adoncholaimus* Filipjev, 1918, *Admirandus*, Belogurov and Belogurova 1979, *Kreisoncholaimus* Rachor, 1969, and *Meyersia* Hopper, 1967. *Metoncholaimoides* Wieser, 1953 has been placed in the subfamily before, but Shimada and Kajihara (2014) considered the genus as a junior synonym for *Adoncholaimus*. Adoncholaiminae morphologically differs from the other six subfamilies of family Oncholaimidae Filipjev, 1916 in the order Oncholaimida Siddiqi, 1983 and suborder Oncholaimina de Conink, 1965 (c.f. Filipjev 1916, Maggenti 1981, Siddiqi 1983, Smol and Coomans 2006, Hodda 2011, Shimada and Kajihara 2014) by the well developed sperm-storage organ (Demanian system) in the female (Rachor 1969, Belogurov and Belogurova 1977a, Belogurov and Belogurova 1977b, Belogurov and Belogurova 1977c, Belogurov and Belogurova 1977d, Belogurov and Belogurova 1989, Smol and Coomans 2006), however there have been no molecular phylogenetic evidences at present. Nematodes belonging to Adoncholaiminae are found from all continents, from the equatorial tropic to the two poles. Most of them are marine or brackish, and some are freshwater species (Smol and Coomans 2006).

A taxonomist who wants to describe new species must collect original descriptions and redescriptions of all congeners by literature research. Complete lists of all species and subspecies names of the genera are exceedingly helpful for taxonomic studies and biodiversity surveys. Such lists are more useful if any other information of individual species are included. In the field of free-living nematodes, there is a comprehensive reference work "The Bremerhaven Checklist of Aquatic Nematodes" (Gerlach and Riemann 1973, Gerlach and Riemann 1974) covering almost all species names of aquatic nematodes with their synonym list, sampling sites, and references before early 1970's. Although many revisions of the specific genera or higher taxa with species lists and taxonomic keys (e.g. Greenslade and Nicholas 1991, Huang and Cheng 2012, Shimada and Kajihara 2014) have been published since 1974, full literature of them is not available today.

This work aims to provide a checklist of Adoncholaiminae species of the world with their synonymy, distribution, and literature information for potential taxonomists who (will) study

nematodes in the subfamily. A literature survey of 31 valid and 13 invalid species in Adoncholaiminae was conducted. More than 400 papers in which species names of Adoncholaiminae are found, not only taxonomic descriptions and collection records but also ecological, morphological, physiological, and DNA works, were completely collected. However, references not satisfying criteria of publication in Articles 8 and 9 of International Code of Zoological Nomenclature (International Commission on Zoological Nomenclature 1999, International Commission on Zoological Nomenclature 2012a, International Commission on Zoological Nomenclature 2012b), e.g. theses, symposium abstracts, and some web articles, are excluded.

Total 485 previous papers (see References) including any species names of Adoncholaiminae was found through a literature survey. Of these references, only 115 were also cited by Gerlach and Riemann (1974) in section of Adoncholaiminae. New 362 papers are added to literature in the present study, containing 293 published after 1973, and 69 were published before 1974 but neglected by them. However, most of the latter were cited in other sections of their checklist.

The names of oceans and seas were used as defined by International Hydrographic Organization (1953)

Checklist of the subfamily Adoncholaiminae Gerlach and Riemann, 1974 (Nematoda: Oncholaimida: Oncholaimidae) of the world: genera, species, distribution, and reference list for taxonomists and ecologists

Subfamily Adoncholaiminae Gerlach and Riemann, 1974

Nomenclature:

Synonym: subtribe Adoncholaimina Gerlach and Riemann, 1974, used first in Belogurov and Belogurova (1978a)

Synonym: subtribe Meyersiina Belogurov and Belogurova, 1978a

Incorrect original spelling: Adoncholaiminini in Belogurov and Belogurova (1978a), Belogurov and Belogurova (1978b), Belogurov and Belogurova (1988), Belogurov and Belogurova (1989)

Incorrect original spelling: Meyersiinini in Belogurov and Belogurova (1978a), Belogurov and Belogurova (1978b), Belogurov and Belogurova (1988), Belogurov and Belogurova (1989)

Type genus: *Adoncholaimus* Filipjev, 1918 = *Metoncholaimoides* Wieser, 1953 [by Shimada and Kajihara (2014)]

Other genera: *Admirandus* Belogurov and Belogurova, 1979; *Kreisoncholaimus* Rachor, 1969; *Meyersia* Hopper, 1967

Notes: The latest taxonomic key to genera: Smol and Coomans (2006)

Revisions and reviews of the subfamily: Belogurov and Belogurova 1978a, Belogurov and Belogurova 1978b, Lorenzen 1981a, Belogurov and Belogurova 1988, Belogurov and Belogurova 1989, Lorenzen 1994, Hope 2007, Smol et al. 2014

Genus *Adoncholaimus* Filipjev, 1918

Nomenclature:

Synonym: *Metoncholaimoides* Wieser, 1953

non *Adoncholaimus* sp. in Menzel (1925) (= *Oncholaimus menzeli* Schneider, 1937)

nec *Adoncholaimus pristiurus* in Filipjev and Schuurmans Stekhoven (1941) (= incorrect subsequent spelling of *Metoncholaimus pristiurus*?)

Etymology: masculine noun, *ad* (Latin, "to") + genus *Oncholaimus* [ὄνχος (Greek, "fang") + λαμός (Greek, "throat")]

Type species: *Adoncholaimus fuscus* (Bastian, 1865) Filipjev, 1918

Valid 22 species: *A. fuscus*; *A. aralensis* Filipjev, 1924; *A. crassicaudus* Wieser, 1953; *A. daikokuensis* Shimada and Kajihara, 2014; *A. derjugini* (Ssaweljev, 1912) Filipjev, 1918; *A. exoptatus* Belogurova and Belogurov, 1974; *A. fervidus* Kirjanova, 1955; *A. filicauda* (Galtsova, 1976) Shimada and Kajihara, 2014; *A. indicus* (von Linstow, 1907) Filipjev, 1918; *A. islandicus* Kreis, 1963; *A. lepidus* (de Man 1889) Filipjev, 1918; *A. longicaudatus* Paramonov, 1929; *A. longispiculatus* Gagarin and Nguyen, 2007; *A. oxyuroides* (Allgén, 1934) Gerlach and Riemann, 1974; *A. panicus* Cobb, 1930; *A. parvus* Gagarin and Nguyen, 2003; *A. pseudofervidus* Shimada and Kajihara, 2014; *A. punctatus* (Cobb, 1914) Filipjev, 1924; *A. quadriporus* Belogurova and Belogurov, 1974; *A. squalus* (Wieser, 1953) Shimada and Kajihara, 2014; *A. thalassophygas* (de Man, 1876) Filipjev, 1918; *A. ussuriensis* Mordukhovich et al., 2015

Invalid 11 species: *A. angustatus* (Cobb, 1981) Filipjev, 1918; *A. austrogeorgiae* Allgén, 1959; *A. bandaensis* Kreis, 1932; *A. chilkensis* (Stewart, 1914) Kreis, 1934; *A. chinensis* Huang and Zhang, 2009; *A. falklandiae* Allgén, 1959; *A. meridionalis* (Kreis, 1932) Rachor, 1969; *A. nudus* (Kreis, 1932) Rachor, 1969; *A. papillatus* Kreis, 1932; *A. skawensis* (Ditlevsen, 1921) Allgén, 1933; *A. taboguillensis* (Allgén, 1947) Wieser, 1953

Notes: Original description: Filipjev (1918)

English translation of original description: Filipjev (1968)

The latest taxonomic key to species: Mordukhovich et al. (2015)

Revisions and reviews of the genus: Filipjev (1924), Kreis (1934), Hopper and Cairns (1959), Chitwood (1960), Rachor (1969), Gerlach and Riemann (1974), Belogurov and Belogurova (1977b), Belogurov and Belogurova (1977d), Belogurov and Belogurova (1977c), Belogurov and Belogurova (1977a), Belogurov and Belogurova (1978b),

Belogurov and Belogurova (1978a), Platt and Warwick (1983), Belogurov and Belogurova (1988), Belogurov and Belogurova (1989), Keppner and Tarjan (1989), Somerfield and Warwick (1996), Smol and Coomans (2006), Smol et al. (2014), Shimada and Kajihara (2014)

Molecular phylogeny: Litvaitis et al. 2000, Bhadury et al. 2006a, Bhadury et al. 2006b, Sharma et al. 2006, Bhadury et al. 2007, Meldal et al. 2007, Bik et al. 2010a, Bik et al. 2010b

Collection records of unidentified species (*Adoncholaimus* sp.): see Table 1

Table 1.												
References of unidentified species in <i>Adoncholaimus</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Schulz 1935b	Lake Ganzirri, Sicilia Island, Mediterranean Sea	Italy	brackish	x								
Allgén 1942	-	-	-						x			
Riemann 1969	Arensch, Cuxhaven, North Sea	Germany	plants						x			
Ward 1973	Liverpool Bay, Irish Sea	United Kingdom	muddy or clean sand with gravel						x			
Belogurov and Belogurova 1979	Urup, Kuril Islands, North Pacific Ocean	Russia	intertidal	x								
Krishnamurthy et al. 1980	Bay of Bengal	India	mangrove						x			
Subramanian et al. 1984	Vellar to Coleroon estuary, Bay of Bengal	India	mangrove						x			
Aryuthaka 1985 (<i>Metoncholaimoides</i> sp.)	Yojiro, Kagoshima Bay, North Pacific Ocean	Japan	sand and seagrasses, 1–3 m deep						x			
Gerdes et al. 1985b	Gavish Sabkha, along Gulf of Elat, Red Sea	Egypt	brackish						x			

Table 2.

References of *Adoncholaimus fuscus*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Bastian 1865 (<i>O. fuscus</i>)	Falmouth, English Channel	United Kingdom	mud	x								
Möbius 1873 (<i>O. fuscus</i>)	-	-	-									x
Bütschli 1874 (<i>O. fuscus</i>)	Kiel Bay, Baltic Sea	Germany	no data							x		
Villot 1875 (<i>O. fuscus</i>)	-	-	-									x
von Linstow 1878 (<i>O. fuscus</i>)	-	-	-				x					
de Man 1886 (<i>O. fuscus</i>)	Schelde estuary, Walcheren, North Sea	The Netherlands	no data	x								
de Man 1888 (<i>O. fuscus</i>)	-	-	-									x
de Man 1889a (<i>O. fuscus</i>)	-	-	-									x
de Man 1889b (<i>O. fuscus</i>)	-	-	-						x			
de Man 1889c (<i>O. fuscus</i>)	-	-	-									x
von Linstow 1889 (<i>O. fuscus</i>)	-	-	-				x					
Jägerskiöld 1901 (<i>O. fuscus</i>)	-	-	-									x
von Linstow 1902 (<i>O. fuscus</i>)	-	-	-									x
Jägerskiöld 1904 (<i>O. fuscus</i>)	SW coast of Jutland Peninsula, North Sea	Denmark	no data						x			
Stewart 1906 (<i>O. fuscus</i>)	-	-	-									x
Horsman 1912 (<i>O. fuscus</i>)	Ynyslas, Irish Sea	United Kingdom	sand						x			

***Adoncholaimus derjugini* (Ssaweljev, 1912) Filipjev, 1924**

Nomenclature:

Synonym: *Oncholaimus derjugini* Ssaweljev, 1912

Etymology: genitive noun, K. Derjugin (person) + *i* (Latin, suffix)

Notes: Holotype: unknown

References: see Table 6

Table 6.													
References of <i>Adoncholaimus derjugini</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.													
Reference	Collection			T					E	M	O	C	
	Locality	Country	Habitat	D	G	R	L	N	P	F			
Ssaweljev 1912 (<i>O. derjugini</i>)	Mogil'noye Bay, Kildin Island, Barents Sea	Russia	no data	x									
Filipjev 1924	-	-	-			x							
Filipjev 1925	-	-	-						x				
Kreis 1934	-	-	-			x							
Allgén 1957	-	-	-						x				
Rachor 1969	-	-	-										x
Gerlach and Riemann 1974	-	-	-				x						
de Smet et al. 2001	-	-	-						x				
Shimada and Kajihara 2014	-	-	-			x							
Mordukhovich et al. 2015	-	-	-			x							

***Adoncholaimus exoptatus* Belogurova and Belogurov, 1974**

Nomenclature:

Etymology: adjective, *exoptatus*, -a, -um (Latin, "greatly desired, longed for")?

Notes: Holotype: Institute of Marine Biology of the Far Eastern Branch, USSR Academy of Sciences, Vladivostok, USSR

References: see Table 7

Table 7.												
References of <i>Adoncholaimus exoptatus</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Belogurova and Belogurov 1974	Itrup, Kuril Islands, North Pacific Ocean	Russia	rhizoids of subtidal algae	x								
Belogurov and Belogurova 1977a	-	-	-							x		
Belogurov and Belogurova 1977d	-	-	-							x		
Belogurov and Belogurova 1979	-	-	-									x
Belogurova and Belogurov 1979	Kuril Islands, North Pacific Ocean	Russia	subtidal to intertidal, sand among seagrasses and stones	x								
Smolyanko and Belogyrov 1987	-	-	-									x
Belogurov and Belogurova 1988	-	-	-			x						
Belogurov and Belogurova 1989	Far East	Russia	no data			x						
Shoshin 2013	-	-	-						x			
Smol et al. 2014	-	-	-		x							
Shimada and Kajihara 2014	-	-	-			x						
Mordukhovich et al. 2015	-	-	-			x						

Adoncholaimus fervidus Kirjanova, 1955

Nomenclature:

Etymology: adjective, *fervidus*, -a, -um (Latin, "fiery")?

Notes: Holotype: unknown

References: see Table 8

Table 8.												
References of <i>Adoncholaimus fervidus</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Kirjanova 1955	Japan Sea	Russia	among algae	x								
Kirjanova 1966	same as Kirjanova 1955			x								
Belogurova and Belogurov 1974	Iturup, Kuril Islands, North Pacific Ocean	Russia	subtidal, sand among barnacles and algal rhizoids	x								
Belogurov and Belogurova 1977a	-	-	-								x	
Belogurov and Belogurova 1977d	-	-	-								x	
Belogurov and Belogurova 1979	Kuril Islands, North Pacific Ocean	Russia	subtidal mudflat	x								
Belogurova and Belogurov 1979	Kuril Islands, North Pacific Ocean	Russia	supratidal to subtidal, sand among algae, barnacles, and polychaetes	x								
Smolyanko and Belogyrov 1987	-	-	-									x
Belogurov and Belogurova 1988	-	-	-			x						
Belogurov and Belogurova 1989	Far East	Russia	no data			x						
Pavlyuk et al. 2007a	Amur Bay, Japan Sea	Russia	intertidal						x			
Pavlyuk et al. 2007b	same as Pavlyuk et al. 2007a								x			
Ivanova et al. 2008	Amur Bay, Japan Sea	Russia	intertidal						x			

***Adoncholaimus indicus* (von Linstow, 1907) Filipjev, 1918**

Nomenclature:

Synonym: *Oncholaimus indicus* von Linstow, 1907

Etymology: adjective, *indicus*, -a, -um (Latin, "Indian")

Notes: Holotype: unknown

References: see Table 10

Table 10.													
References of <i>Adoncholaimus indicus</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.													
Reference	Collection			T						E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F			
von Linstow 1907 (<i>O. indicus</i>)	Conning, Matla, Bay of Bengal	India	brackish	x									
Stewart 1914a (<i>O. indicus</i>)	Conning, Matla, Bay of Bengal	India	brackish	x									
Stewart 1914b (<i>O. indicus</i>)	-	-	-										x
Filipjev 1918	-	-	-			x							
Filipjev 1924	-	-	-			x							
Menzel 1925	-	-	-										x
Allgén 1934c	-	-	-										x
Kreis 1934	-	-	-			x							
Schneider 1937 (<i>O. indicus</i>)	-	-	-										x
Filipjev 1968	-	-	-			x							
Gerlach and Riemann 1974	-	-	-				x						
Kathiresan and Qasim 2005 (<i>O. indicus</i>)	-	-	-						x				
Shimada and Kajihara 2014	-	-	-			x							
Mordukhovich et al. 2015	-	-	-			x							

Shimada and Kajihara 2014	-	-	-				x												
Mordukhovich et al. 2015	-	-	-				x												

Adoncholaimus lepidus (de Man 1889) Filipjev, 1918

Nomenclature:

Synonym: *Oncholaimus lepidus* de Man, 1889

non *Oncholaimus lepidus* sensu Schneider (1906): see *Adoncholaimus thalassophygas* nec *Adoncholaimus lepidus* sensu Warwick and Gage 1975: see *Adoncholaimus panicus*

Synonym?: *Metoncholaimoides filicauda* Wieser 1953 [by Belogurov and Galtsova (1983), not followed by Shimada and Kajihara (2014)]

Etymology: adjective, *lepidus*, -a, -um (Latin, "agreeable"?)

Notes: Holotype: unknown

References: see Table 12

Table 12.
References of *Adoncholaimus lepidus*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy; V, developmental biology.

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
de Man 1889b (<i>O. lepidus</i>)	Walcheren, North Sea	The Netherlands	brackish soil among plant roots	x								
von Linstow 1889 (<i>O. lepidus</i>)	-	-	-				x					
Steiner 1917 (<i>O. lepidus</i>)	-	-	-									x
Filipjev 1918	-	-	-			x						
Micoletzky 1921 (<i>O. lepidus</i>)	-	-	-		x							
de Man 1922b (<i>O. lepidus</i>)	-	-	-						x			

Table 17.

References of *Adoncholaimus parvus*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Gagarin and Nguyen 2003	Nhue River, Hanoi	Vietnam	freshwater, 1.0–2.5 m deep	x								
Gagarin and Nguyen 2008a	Red River Delta, Bat Lat	Vietnam	brackish silt, 1.0–1.5 m deep						x			
Gagarin and Nguyen 2008b	Chu River, Thanh Hoa	Vietnam	brackish silt, 0.5–1.5 m deep									
Gagarin and Nguyen 2008c	same as Gagarin and Nguyen 2008a								x			
Gagarin and Nguyen 2008d	same as Gagarin and Nguyen 2008b								x			
Gagarin and Nguyen 2012a	Tra Ly River, Thai Binh	Vietnam	sand, 0.5 m deep						x			
Gagarin and Nguyen 2012b	same as Gagarin and Nguyen 2012a								x			
Nguyen and Gagarin 2013a	-	-	-									x
Nguyen and Gagarin 2013b	-	-	-									x
Smol et al. 2014	-	-	-		x							
Shimada and Kajihara 2014	-	-	-			x						
Mordukhovich et al. 2015	-	-	-			x						

Adoncholaimus pseudofervidus Shimada and Kajihara, 2014

Nomenclature:

Etymology: adjective, *pseudo* (Latin, "fake") + *Adoncholaimus fervidus* (species name)

Notes: Holotype: ICHUM (formerly ZIHU) 4184, Hokkaido University Museum, Sapporo, Japan

References: see Table 18

Table 18.												
References of <i>Adoncholaimus pseudofervidus</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Shimada and Kajihara 2014	Mukawa, Hokkaido, North Pacific Ocean	Japan	intertidal sessile bivalves	x								
Mordukhovich et al. 2015	-	-	-			x						

Adoncholaimus punctatus (Cobb, 1914) Filipjev, 1924

Nomenclature:

Synonym: *Oncholaimus punctatus* Cobb, 1914

Etymology: adjective, *punctatus*, -a, -um (Latin, "pointed")

Notes: Holotype: unknown

References: see Table 19

Table 19.												
References of <i>Adoncholaimus punctatus</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Cobb 1914 (<i>O. punctatus</i>)	Cape Breton Island, North Atlantic Ocean	Canada	freshwater ponds	x								
Steiner 1917 (<i>O. punctatus</i>)	-	-	-									x
Cobb 1918 (<i>O. punctatus</i>)	-	-	-		x							
Micoletzky 1921 (<i>O. punctatus</i>)	-	-	-		x							

Table 20.

References of *Adoncholaimus quadriporus*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Belogurova and Belogurov 1974	Itrup, Kuril Islands, North Pacific Ocean	Russia	intertidal sand among barnacles	x								
Belogurov and Belogurova 1977a	-	-	-								x	
Belogurov and Belogurova 1977d	-	-	-								x	
Belogurov and Belogurova 1978a	-	-	-			x						
Belogurov and Belogurova 1978b	-	-	-			x						
Belogurov and Belogurova 1979	-	-	-									x
Belogurova and Belogurov 1979	Kuril Islands, North Pacific Ocean	Russia	subtidal to intertidal, mud, sand, barnacles, polychaetes, and rhizoids of algae						x			
Belogurov and Belogurova 1988	-	-	-			x						
Belogurov and Belogurova 1989	Far East	Russia	no data			x						
Shoshin 2013	-	-	-						x			
Smol et al. 2014	-	-	-		x							
Shimada and Kajihara 2014	-	-	-			x						
Mordukhovich et al. 2015	-	-	-			x						

***Adoncholaimus squalus* (Wieser, 1953) Shimada and Kajihara, 2014**

Nomenclature:

Synonym: *Metoncholaimoides squalus* Wieser, 1953

incorrect subsequent spelling: *Metoncholaimus squalus* in Lorenzen (1976)

Etymology: appositive noun, *squalus* (Latin, a kind of shark)?

Notes: Holotype: unknown

References: see Table 21

Table 21. References of <i>Adoncholaimus squalus</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Wieser 1953 (<i>M. squalus</i>)	Punta Santa María; Canal FitzRoy, Strait of Magellan	Chile	intertidal sheltered algae and stones with rich sediment	x								
Mawson 1958 (<i>M. squalus</i>)	Kerguelen Islands, Indian Ocean; Macquarie Island, South Pacific Ocean	French Southern and Antarctic Lands	intertidal mussel bank	x								
Wieser 1958 (<i>M. squalus</i>)	-	-	-						x			
Wieser 1959 (<i>M. squalus</i>)	same as Wieser 1953								x			
Hope and Murphy 1972 (<i>M. squalus</i>)	-	-	-				x					
Gerlach and Riemann 1974 (<i>M. squalus</i>)	-	-	-				x					
Galtsova 1976 (<i>M. squalus</i>)	-	-	-									x
Lorenzen 1976 (<i>M. squalus</i>)	-	-	-									x
Belogurov and Belogurova 1978a (<i>M. squalus</i>)	-	-	-			x						

Belogurov and Belogurova 1978b (<i>M. squalus</i>)	-	-	-		x																
Galtsova 1985 (<i>M. squalus</i>)	-	-	-																		x
Belogurov and Belogurova 1989 (<i>M. squalus</i>)	Far East	Russia	no data		x																
Greenlade 1989 (<i>M. squalus</i>)	-	-	-																		x
Pastor de Ward 1993 (<i>M. squalus</i>)	Deseado estuary, Santa Cruz, South Atlantic Ocean	Argentina	intertidal algae	x																	
Pastor de Ward 1998 (<i>M. squalus</i>)	Deseado estuary, Santa Cruz, South Atlantic Ocean	Argentina	algae																		x
Smol and Coomans 2006 (<i>M. squalus</i>)	-	-	-		x																
Ingels et al. 2014 (<i>M. squalus</i>)	-	-	-																		x
Smol et al. 2014 (<i>M. squalus</i>)	-	-	-		x																
Shimada and Kajihara 2014	-	-	-																		x
Mordukhovich et al. 2015	-	-	-																		x

***Adoncholaimus thalassophygas* (de Man, 1876) Filipjev, 1918**

Nomenclature:

Synonym: *Oncholaimus thalassophygas* de Man, 1876

Synonym: *Adoncholaimus thalassophygas tvaerminneanus* Schneider, 1926 = *Oncholaimus lepidus* sensu Schneider 1906 [by Filipjev (1929b)]

Etymology: appositive noun, *θάλασσα* (Greek, "sea") + *Φυγάς* (Greek, "fugitive")

Notes: Holotype: unknown

References: see Table 22

Table 22.

References of *Adoncholaimus thalassophygas*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; S, physiology; T, taxonomy.

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
de Man 1876b (<i>O. thalassophygas</i>)	Walcheren, Middelburg, North Sea	The Netherlands	brackish soil among plant roots	×								
de Man 1876a (<i>O. thalassophygas</i>)	-	-	-									×
de Man 1881 (<i>O. thalassophygas</i>)	Walcheren, Middelburg, North Sea	The Netherlands	brackish soil among plant roots	×								
de Man 1884 (<i>O. thalassophygas</i>)	same as de Man 1881			×								
de Man 1886 (<i>O. thalassophygas</i>)	-	-	-		×							
de Man 1889b (<i>O. thalassophygas</i>)	Walcheren, Middelburg, North Sea	The Netherlands	brackish soil among plant roots	×								
von Linstow 1889 (<i>O. thalassophygas</i>)	-	-	-									×
von Linstow 1890 (<i>O. thalassophygas</i>)	-	-	-									×
Schneider 1906 (<i>O. lepidus</i> , <i>O.</i> <i>thalassophygas</i>)	Tvärminne, Gulf of Finland, Baltic Sea	Finland	brackish	×								
Ditlevsen 1911 (<i>O. thalassophygas</i>)	Hellerup, Øresund	Denmark	salt marsh plant roots						×			
Vanhöffen 1917 (<i>O. thalassophygas</i>)	Vistula Lagoon, Baltic Sea	Prussia	brackish						×			
Filipjev 1918	-	-	-			×						
de Man 1919 (<i>O. thalassophygas</i>)	same as de Man 1884			×								
Micoletzky 1921 (<i>O. thalassophygas</i>)	-	-	-		×							

Adoncholaimus angustatus* (Cobb, 1891) Filipjev, 1918*Nomenclature:**

Invalid: transferred to the genus *Viscosia* by Kreis (1934)

Synonym: *Oncholaimus angustatus* Cobb, 1891

Etymology: adjective, *angustatus*, -a, -um (Latin, "narrowed")

Notes: Holotype: unknown

References: see Table 24

Table 24.

References of *Adoncholaimus angustatus*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Cobb 1891 (<i>O. angustatus</i>)	Indian Ocean	Arabia	sand	x								
Filipjev 1918	-	-	-			x						

Adoncholaimus austrogeorgiae* Allgén, 1959*Nomenclature:**

Invalid: treated as a *species inquirenda* by Shimada and Kajihara (2014)

Etymology: genitive noun, *Austrogeorgia* (Latin, "South Georgia") + *e* (Latin, suffix)

Notes: Holotype: unknown

References: see Table 25

Table 25.

References of *Adoncholaimus austrogeorgiae*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Allgén 1959	Grytviken, South Georgia Island, South Atlantic Ocean	South Georgia and the South Sandwich Islands	kelp rhizoids	x								
Gerlach and Riemann 1974	-	-	-				x					
Ingels et al. 2014	-	-	-						x			
Shimada and Kajihara 2014	-	-	-						x			

***Adoncholaimus bandaensis* Kreis, 1932**

Nomenclature:

Invalid: transferred to the genus *Meyersia* by Hopper (1967); see *Meyersia bandaensis*

***Adoncholaimus chilkensis* (Stewart, 1914) Kreis, 1934**

Nomenclature:

Invalid: treated as a *species inquirenda* by Shimada and Kajihara (2014)

Synonym: *Oncholaimus chilkensis* Stewart, 1914

Etymology: adjective, Chilka (type locality) + *ensis*, *-is*, *-e* (Latin, suffix)

Notes: Holotype: No. ZEV. 6237/7, Indian Museum, Kolkata, India

References: see Table 26

Table 26.

References of *Adoncholaimus chilkenis*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Stewart 1914b (<i>O. chilkenis</i>)	Chilka Lake, Madras, Bay of Bengal	India	filamentous algae	×								
Annandale 1915 (<i>O. chilkenis</i>)	Chilka Lake, Madras, Bay of Bengal	India	sponges						×			
Menzel 1925 (<i>O. chilkenis</i>)	-	-	-									×
Kreis 1932 (<i>O. chilkenis</i>)	-	-	-									×
Allgén 1934c (<i>O. chilkenis</i>)	-	-	-									×
Kreis 1934	-	-	-			×						
Baylis 1936 (<i>O. chilkenis</i>)	-	-	-	×								
Panikkar and Aiyar 1937 (<i>O. chilkenis</i>)	-	-	-						×			
Rachor 1969	-	-	-									×
Gerlach and Riemann 1974	-	-	-				×					
Belogurov et al. 1980 (<i>O. chilkenis</i>)	-	-	-									×
Tsalolikhin 1982	-	-	-									×
Shimada and Kajihara 2014	-	-	-			×						

***Adoncholaimus chinensis* Huang and Zhang, 2009**

Nomenclature:

Invalid: synonymized with *Admirandus multicavus* by Mordukhovich et al. (2015); see *Admirandus multicavus*

Etymology: adjective, China (type locality) + *ensis*, *-is*, *-e* (Latin, suffix)

Notes: Holotype: LUH 001 (LUL 08801), Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China

***Adoncholaimus falklandiae* Allgén, 1959**

Nomenclature:

Invalid: treated as a *species inquirenda* by Shimada and Kajihara (2014)

Etymology: genitive noun, Falkland (type locality) + *iae* (Latin, suffix)

Notes: Holotype: unknown

References: see Table 27

Table 27.
References of *Adoncholaimus falklandiae*. Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.

Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Allgén 1959	Port William, East Falkland, South Atlantic Ocean	Falkland Islands	sand and algae, 40 m deep	x								
Gerlach and Riemann 1974	-	-	-				x					
Ingels et al. 2014	-	-	-						x			
Shimada and Kajihara 2014	-	-	-			x						

***Adoncholaimus meridionalis* Kreis, 1932**

Nomenclature:

Invalid: transferred to the genus *Meyersia* by Hopper 1967; see *Meyersia meridionalis*

Adoncholaimus nudus* Kreis, 1932*Nomenclature:**

Invalid: transferred to the genus *Kreisoncholaimus* by Rachor (1969); see *Kreisoncholaimus nudus*

Adoncholaimus papillatus* Kreis, 1932*Nomenclature:**

Invalid: transferred to the genus *Admirandus* by Shimada and Kajihara (2014); see *Admirandus papillatus*

Adoncholaimus skawensis* (Ditlevsen, 1922) Allgén, 1933*Nomenclature:**

Invalid: transferred to the genus *Oncholaimus* again by Allgén (1935b)

Synonym: *Oncholaimus skawensis* Ditlevsen, 1922

Etymology: adjective, Skaw (type locality) + *ensis*, *-is*, *-e* (Latin, suffix)

Notes: Holotype: unknown

References: see Table 28

Table 28.												
References of <i>Adoncholaimus skawensis</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Ditlevsen 1922 (<i>O. skawensis</i>)	Skaw, Skagen, Skagerrak or Kattegat	Denmark	algae, hydroids, and stones	x								
Allgén 1933	Munkholmen; Tautra, Trondheim	Norway	8–60 m deep						x			

Adoncholaimus taboguillensis* (Allgén, 1947) Wieser, 1953*Nomenclature:**

Invalid: treated as a *species inquirenda* by Shimada and Kajihara (2014)

Synonym: *Viscosia taboguillensis* Allgén, 1947

Etymology: adjective, Taboguilla (type locality) + *ensis*, *-is*, *-e* (Latin, suffix)

Notes: Holotype: unknown

References: see Table 29

Table 29.												
References of <i>Adoncholaimus taboguillensis</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Allgén 1947a (<i>V. taboguillensis</i>)	Taboguilla Island, Bay of Panama, North Pacific Ocean	Panama	coral	x								
Allgén 1951 (<i>V. taboguillensis</i>)	Contadora Island, Bay of Panama, North Pacific Ocean	Panama	sand and stone, 8–10 m deep	x								
Wieser 1953	-	-	-			x						
Gerlach and Riemann 1974	-	-	-				x					
Shimada and Kajihara 2014	-	-	-			x						

Genus *Admirandus* Belogurov and Belogurova, 1979

Nomenclature:

Etymology: masculine noun, *admirandus*, -a, -um (Latin, "remarkable"; "wonderful")?

Type species: *Admirandus multicavus* Belogurov and Belogurova, 1979

Valid three species: *A. multicavus*; *A. belogurovi* Tchesunov *et al.*, 2010; *A. papillatus* (Kreis, 1932) Shimada and Kajihara, 2014

The genus name was published in Belogurov and Belogurova (1977a), Belogurov and Belogurova (1977d), Belogurov and Belogurova (1978a), Belogurov and Belogurova (1978b) prior to original description, but had been unavailable before Belogurov and Belogurova 1979 [Article 13.1 of International Code of Zoological Nomenclature (International Commission on Zoological Nomenclature 1999)]

Notes: Original description: Belogurov and Belogurova (1979)

Revisions and reviews of the genus: Belogurov and Belogurova (1977b), Belogurov and Belogurova (1977a), Belogurov and Belogurova (1978b), Belogurov and

Notes: Original description: Rachor (1969)

Revisions and reviews of genus: Gerlach and Riemann (1974), Belogurov and Belogurova (1977a), Belogurov and Belogurova (1977d), Belogurov and Belogurova (1978a), Belogurov and Belogurova (1978b), Belogurov and Belogurova (1988), Belogurov and Belogurova (1989), Keppner and Tarjan (1989), Smol and Coomans (2006), Smol et al. (2014)

***Kreisoncholaimus nudus* (Kreis, 1932) Rachor, 1969**

Nomenclature:

Synonym: *Adoncholaimus nudus* Kreis, 1932

Etymology: adjective, *nudus*, -a, -um (Latin, "naked")

Notes: Holotype: unknown

References: see Table 33

Table 33. References of <i>Kreisoncholaimus nudus</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Kreis 1932 (<i>A. nudus</i>)	Saparua Island, Banda Sea (in Micoletzky and Kreis 1930)	Indonesia	algae in rocky shore	x								
Kreis 1934 (<i>A. nudus</i>)	same as Kreis 1932			x								
Rachor 1969	-	-	-			x						
Rachor 1970	-	-	-			x						
Hope and Murphy 1972	-	-	-				x					
Gerlach and Riemann 1974	-	-	-				x					
Belogurov and Belogurova 1978a	-	-	-			x						
Belogurov and Belogurova 1978b	-	-	-			x						

Mirto et al. 2003	Gaeta Gulf, Tyrrhenian Sea, Mediterranean Sea	Italy	fish-farm cage						x			
Ullberg and Ólafsson 2003b	Sandviken, Askö, Baltic Sea	Sweden	sand						x			
Haseman 2006	Hausgarten, off Svalbard, Fram Strait	off Norway	deep sea sand with marl and silt						x			
Pavlyuk and Trebukhova 2006	Nha Trang Bay, South China Sea	Vietnam	sediment						x			
Liu et al. 2008	Victoria Harbour, Hong Kong, South China Sea	China	5–23 m deep						x			
Sougawa et al. 2008	Manazuru Port, Sagami Bay, North Pacific Ocean	Japan	5–6 m deep						x			
Bik et al. 2010a (<i>Meyersia</i> sp. or <i>Metaparoncholaimus</i> sp.)	off Crozet Islands, Indian Ocean	French Southern and Antarctic Lands	deep sea sediment						x			
Bik et al. 2010b (<i>Meyersia</i> sp. or <i>Metaparoncholaimus</i> sp.)	same as Bik et al. 2010a								x			
Ingole and Singh 2010	off Larsemann Hills, Prydz Bay, Indian Ocean	Antarctica	525–722 m deep						x			
Nanajkar et al. 2010	Zuari estuary, Goa, Arabian Sea	India	clayey sediment, 9 m deep						x			
Venekey et al. 2010	no data	Brazil	no data						x			
Portnova et al. 2011	Håkon Mosby Mud Volcano, Norwegian Sea	off Norway	1307 m deep						x			
Miljutin et al. 2011	French mining claim, Clarion-Clipperton Fracture Zone, North Pacific Ocean	between Mexico and Hawaii	about 5000 m deep						x			
Liao et al. 2015	Shihlang, Ludaο (Green Island), North Pacific Ocean	Taiwan	intertidal sand						x			

Meyersia major* Hopper, 1967*Nomenclature:**

Etymology: adjective, *major*, -or, -us (Latin, "larger")

Notes: Holotype: Collection No. 5120, Type slide No. 153, Canadian National Collection of Nematodes, Entomology Research Institute, Ottawa, Canada

References: see Table 35

Table 35. References of <i>Meyersia major</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.													
Reference	Collection			T						E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F			
Hopper 1967	Soldier Key; Pigeon Key, Florida, North Atlantic Ocean	United States	sediment and algae	x									
Hope and Murphy 1972	-	-	-				x						
Gerlach and Riemann 1974	-	-	-				x						
Belogurov and Belogurova 1978a	-	-	-			x							
Belogurov and Belogurova 1978b	-	-	-			x							
Belogurov and Belogurova 1988	-	-	-			x							
Smol and Coomans 2006	-	-	-		x								
Hope 2009	-	-	-						x				
Smol et al. 2014	-	-	-		x								

Meyersia bandaensis* (Kreis, 1932) Hopper, 1967*Nomenclature:**

Synonym: *Adoncholaimus bandaensis* Kreis, 1932

Etymology: adjective, Banda (type locality) + *ensis*, -is, -e (Latin, suffix)

Notes: Holotype: unknown

References: see Table 36

Table 36. References of <i>Meyersia bandaensis</i> . Abbreviations: C, citation; D, description; E, ecology; F, feeding and culture; G, genus diagnosis; L, species list of genus; M, morphology; N, DNA taxonomy; O, other experiment; P, population and fauna; R, taxonomic revision; T, taxonomy.												
Reference	Collection			T					E	M	O	C
	Locality	Country	Habitat	D	G	R	L	N	P	F		
Kreis 1932 (<i>A. bandaensis</i>)	Lontor Island, Banda Sea (in Micoletzky and Kreis 1930)	Indonesia	sand and seagrasses	x								
Kreis 1934 (<i>A. bandaensis</i>)	same as Kreis 1932			x								
de Coninck 1965 (<i>A. bandaensis</i>)	-	-	-									x
Hopper 1967	-	-	-			x						
Rachor 1969	-	-	-							x		
Gerlach and Riemann 1974	-	-	-				x					
Belogurov and Belogurova 1978a	-	-	-			x						
Belogurov and Belogurova 1978b	-	-	-			x						
Gourbault and Renaud-Mornant 1990	Fangataufa, Tuamotu Archipelago, South Pacific Ocean	French Polynesia	lagoon sediment						x			

***Meyersia japonica* Yoshimura, 1982**

Nomenclature:

Etymology: adjective, *japonicus*, -a, -um (Latin, "Japanese")

Notes: Holotype: 790811B-V-4, Seto Marine Biological Laboratory, Wakayama, Japan

References: see Table 37

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