

Table S1. Reported hosts of *Nectonema* species, updated from Schmidt-Rhaesa et al. (2013)

Host name	Nematomorph name	Locality	Reference
Decapoda: Dendrobranchiata			
<i>Amalopenaeus elegans</i>	"worm that appears to be related to <i>Gordius</i> "	2500 fathom, off Sierra Leone	Bate (1888) (cf. Nielsen 1969)
<i>Eusergestes arcticus</i>	<i>N. munidae</i>	Herdla near Bergen, Norway	Greve (1972)
Decapoda: Pleocyemata: Caridea			
<i>Lebbeus polaris</i>	<i>Nectonema</i> sp.	Greenland	Nouvel and Nouvel (1938)
<i>Palaemon elegans</i>	<i>Nectonema</i> sp.	Vicinity of Roscoff, France	Nouvel and Nouvel (1938)
<i>Palaemon elegans</i>	<i>Nectonema</i> sp.	Vicinity of Dinard, France	Gallien (1949)
<i>Palaemon elegans</i>	<i>Nectonema</i> sp.	Vicinity of Dinard, France	Arvy (1963)
<i>Palaemon serratus</i>	<i>Nectonema</i> sp.	Vicinity of Roscoff, France	Nouvel and Nouvel (1934)
<i>Palaemon vulgaris</i>	<i>N. agile</i>	Woods Hole, Massachusetts, USA	Born (1967)
<i>Palaemon</i> sp.	<i>N. agile</i>	?	Ward (1892)
<i>Pandalus borealis</i>	<i>Nectonema</i> sp.	Bay of Fundy, Canada	Leslie et al. (1981)
<i>Pandalus montagui</i>	<i>Nectonema</i> sp.	Bay of Fundy, Canada	Leslie et al. (1981)
<i>Pandalus montagui</i>	<i>Nectonema</i> sp.	Bay of Fundy, Canada	Skaling and MacKinnon (1988)
<i>Pontophilus norvegicus</i>	<i>N. munidae</i>	Vicinity of Bergen, Norway	Brinkmann (1930)
Decapoda: Pleocyemata: Astacidea			
<i>Homarus americanus</i>	<i>N. agile</i>	Grand Manan Island, New Brunswick, Canada	Schmidt-Rhaesa et al. (2013)
Decapoda: Pleocyemata: Anomura			
<i>Anapagurus hyndmanni</i>	<i>Nectonema</i> sp.	Vicinity of Roscoff, France	Pérez (1927a, b)
<i>Anapagurus hyndmanni</i>	<i>N. agile</i>	Vicinity of Roscoff, France	Mouchet (1931)

<i>Anapagurus hyndmanni</i>	<i>N. agile</i>	Vicinity of Roscoff, France	Pérez (1934)
<i>Anapagurus hyndmanni</i>	<i>N. agile</i>	Vicinity of Morlaix, France	Feyel (1936)
<i>Anapagurus laevis</i>	<i>N. agile</i>	Vicinity of Roscoff, France	Pérez (1934)
<i>Diogenes pugilator</i>	<i>N. agile</i>	Vicinity of Roscoff, France	Pérez (1934)
<i>Pagurus acadianus</i>	<i>Nectonema</i> sp.	Bay of Fundy, Canada	Leslie et al. (1981)
<i>Pagurus bernhardus</i>	<i>N. agile</i>	Vicinity of Roscoff, France	Mouchet (1931)
<i>Pagurus bernhardus</i>	<i>N. agile</i>	Vicinity of Roscoff, France	Pérez (1934)
<i>Pagurus brachiomastus</i>	<i>Nectonema</i> sp.	Hokkaido, Japan	Yoshida (2016)
<i>Pagurus cuanensis</i>	<i>N. munidae</i>	Vicinity of Bergen, Norway	Nielsen (1969)
<i>Pagurus pubescens</i>	<i>N. munidae</i>	Vicinity of Bergen, Norway	Brinkmann (1930)
<i>Pagurus pubescens</i>	<i>N. munidae</i>	Vicinity of Bergen, Norway	Nielsen (1969)
<i>Munida sarsi</i>	<i>N. munidae</i>	Vicinity of Bergen, Norway	Nielsen (1969)
<i>Munida tenuimana</i>	<i>N. munidae</i>	Vicinity of Bergen, Norway	Brinkmann (1930)
<i>Munida tenuimana</i>	<i>N. munidae</i>	Vicinity of Bergen, Norway	Nielsen (1969)
<i>Munida tenuimana</i>	<i>N. munidae</i>	Vicinity of Bergen, Norway	Schmidt-Rhaesa (1996)
<i>Munida</i> sp.	<i>N. munidae</i>	Korsfjorden, Bergen, Norway	Cunha et al. (2023)
Decapoda: Pleocyemata: Brachyura			
<i>Cancer borealis</i>	<i>Nectonema</i> sp.	Bay of Fundy, Canada	Leslie et al. (1981)
<i>Cancer irroratus</i>	<i>Nectonema</i> sp.	Bay of Fundy, Canada	Leslie et al. (1981)
<i>Cancer irroratus</i>	<i>Nectonema</i> sp.	Bay of Fundy (St Andrews, Grand Manan), Canada	Brattey et al. (1985)
<i>Cancer irroratus</i>	<i>Nectonema</i> sp.	Southern Gulf of St. Lawrence, Canada	Moriyasu et al. (1998)
<i>Chionoecetes bairdi</i>	<i>Nectonema</i> sp.	Hokkaido, Japan	This study
<i>Erimacrus isenbeckii</i>	<i>Nectonema</i> sp.	Hokkaido, Japan	Oku et al. (1983)

<i>Hemigrapsus sexdentatus</i>	<i>N. zealandica</i>	South Island, New Zealand	Poinar and Brockerhoff (2001)
<i>Liocarcinus navigator</i>	<i>Nectonema</i> sp.	Vicinity of Dinard, France	Gallien (1949)
<i>Liocarcinus pusillus</i>	<i>Nectonema</i> sp.	Vicinity of Roscoff, France	Pérez (1927b)
<i>Macropodia rostrata</i>	<i>N. agile</i>	Vicinity of Roscoff, France	Pérez (1934)
<i>Macropodia rostrata</i>	<i>N. agile</i>	Vicinity of Morlaix, France	Feyel (1936)
Isopoda: Cymothoida			
<i>Natatolana japonensis</i>	<i>Nectonema</i> sp.	1425 m, Sea of Japan, Japan	Kakui et al. (2021)

References

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Table S2. K2P distances among 18S sequences from nematode and nematomorph species (1666 positions; all positions containing gaps and missing data were eliminated).

	1	2	3	4	5	6
1. Y16914.1_Enoplus_meridionalis_18S_rRNA_gene						
2. AF421765.1_Gordionus_wolterstorffii_18S_ribosomal_RNA_gene_partial_sequence		18.9%				
3. JAUIRK010000294.1_Nectonema_munidae_voucher_MCZ:IZ:153622_contig_1844_1_whole_genome_shotgun_sequence	25.6%	20.1%				
4. AF421767.1_Nectonema_agile_18S_ribosomal_RNA_gene_partial_sequence	25.7%	20.1%	0.3%			
5. LC605988.1_Nectonema_sp._KK2021_ICHUM:6184_gene_for_18S_rRNA_partial_sequence	24.2%	19.1%	10.1%	10.5%		
6. LC605989.1_Nectonema_sp._KK2021_ICHUM:6188_gene_for_18S_rRNA_partial_sequence	24.2%	19.1%	10.1%	10.5%	0.0%	
7. LC816087	26.4%	21.3%	1.7%	2.0%	10.0%	10.0%

Sequence Set 1. Aligned 18S sequences, trimmed in MEGA7 to the shortest length among the sequences.

>Y16914.1_Enoplus_meridionalis_18S_rRNA_gene

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>AF421765.1_Gordionus_wolterstorffi_18S_ribosomal_RNA_gene_partial_sequence

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>JAUIRK010000294.1_Nectonema_munidae_voucher_MCZ:IZ:153622_contig_1844_1_whole_genome_shotgun_sequence

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>AF421767.1_Nectonema_agile_18S_ribosomal_RNA_gene_partial_sequence

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>LC605989.1_Nectonema_sp._KK2021_ICHUM:6188_gene_for_18S_rRNA_partial_sequence

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Sequence Set 2. Aligned 18S sequences used for the maximum-likelihood analysis, reduced to 1740 positions by removing alignment-ambiguous sites.

>Y16914.1_Enoplus_meridionalis_18S_rRNA_gene

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