

**Supplementary TableS1.** Number of reads (Nb) at different stages of processing in each *Oncholaimus dyvae* individual

Nematodes	Raw reads	Nb after quality filter	Final Nb (after affiliation)
Od 2	46,465	40,727	32,42
Od 3	83,22	70,467	56,922
Od 4	52,032	42,980	35,962
Od 5	58,168	52,368	41,134
Od 6	65,119	57,203	34,212
Od 7	101,066	85,537	71,135
Od 12	57,184	49,268	40,76
Od 13	67,731	59,358	49,115
Od 14	39,896	34,320	25,131
Od 15	82,249	69,232	58,831
Od 16	75,274	64,252	49,798
Od 17	39,67	34,569	27,363
<b>Total</b>	<b>768,074</b>	<b>660,281</b>	<b>522,783</b>

**Supplementary TableS2.** Taxonomies by nematode (Od)

Nematodes	Nb phyla	Nb classes	Nb orders	Nb families	Nb genera	Nb species
Od 2	12	20	39	65	93	107
Od 3	12	20	38	67	101	110
Od 4	11	19	35	54	78	83
Od 5	12	20	35	65	105	115
Od 6	13	23	44	81	124	138
Od 7	10	18	36	68	104	112
Od 12	10	18	33	58	88	96
Od 13	12	22	36	59	90	99
Od 14	13	24	44	77	109	122
Od 15	10	17	32	59	86	95
Od 16	10	18	34	59	93	107
Od 17	9	17	34	63	94	105

Nb = number

**Supplementary TableS3.** Abundance (%) of four major phyla across all samples.

Nematodes	Proteobacteria	Bacteroidetes	Spirochaetae	Firmicutes
Od 2	31	2	8	44
Od 3	54	37	4	<1
Od 4	17	51	29	1
Od 5	27	22	10	22
Od 6	63	3	<1	12
Od 7	34	26	31	<1
Od 12	53	13	23	<1
Od 13	15	3	51	7
Od 14	20	26	<1	25
Od 15	19	54	6	4
Od 16	16	27	4	1

**Supplementary TableS4.** Affiliation and relative abundance of eight common OTUs (that represent at least 1% of total reads) between all nematodes and extraction blank.

	<b>Affiliation (% similarity)</b>	<b>Blank Abundance (% of total reads)</b>	<b>Nematode Abundance (% of total reads)</b>
OTU 5	<i>Actinobacteria Propionibacterium</i> (100%)	13	5
OTU 6	<i>Firmicutes Staphylococcus</i> (100%)	9	6
OTU 17	<i>Firmicutes Atopostipes</i> (98.6%)	2	2
OTU 12	<i>Firmicutes Atopostipes</i> (99.7%)	6	1
OTU 15	<i>Firmicutes Streptococcus</i> (100%)	3	1
OTU 8	<i>Betaproteobacteria Delftia</i> (100%)	6	3
OTU 11	<i>Gammaproteobacteria Pseudomonas</i> (100%)	3	2
OTU 14	<i>Gammaproteobacteria Pseudomonas</i> (100%)	4	2