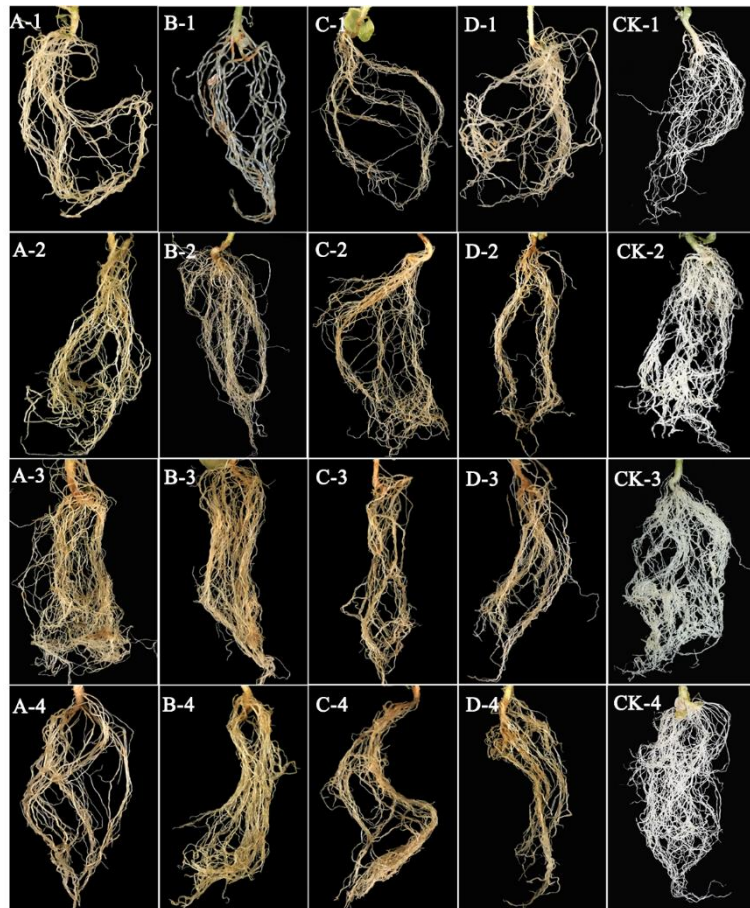


Appendix A Symptoms of *Nicotiana benthamiana* roots infected with *Radopholus similis* originated from *Anthurium andraeanum* (SZ-FZ). A-D: *N. benthamiana* root systems were inoculated with 50,100,150 and 200 nematodes per plant; 1-4: *N. benthamiana* root systems 9, 16, 23, and 30 days after nematode inoculation; CK: healthy control group.

Appendix B The disease severity of *Nicotiana benthamiana* roots infected with *Radopholus similis* originated from *Anthurium andraeanum* (SZ-FZ)

	9 days	16 days	23 days	30 days
50 nematodes/plant	0.30±0.153 a A	0.70±0.153 a A	1.30±0.153 a B	2.30±0.153 a C
100 nematodes/plant	0.60±0.163 ab A	1.00±0.000 a B	2.00±0.000 b C	2.90±0.100 b D
150 nematodes/plant	0.90±0.100 bc A	1.40±0.163 b B	2.40±0.163 c C	3.50±0.167 c D
200 nematodes/plant	1.20±0.133 c A	1.70±0.153 b B	2.90±0.100 d C	5.00±0.000 d D

Disease severity: a numerical representation of the severity of plant root damage, which classified into 0-5 six levels from low to high according to the discoloration area on the roots; the data in the table was the mean ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in disease severity at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in disease severity at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

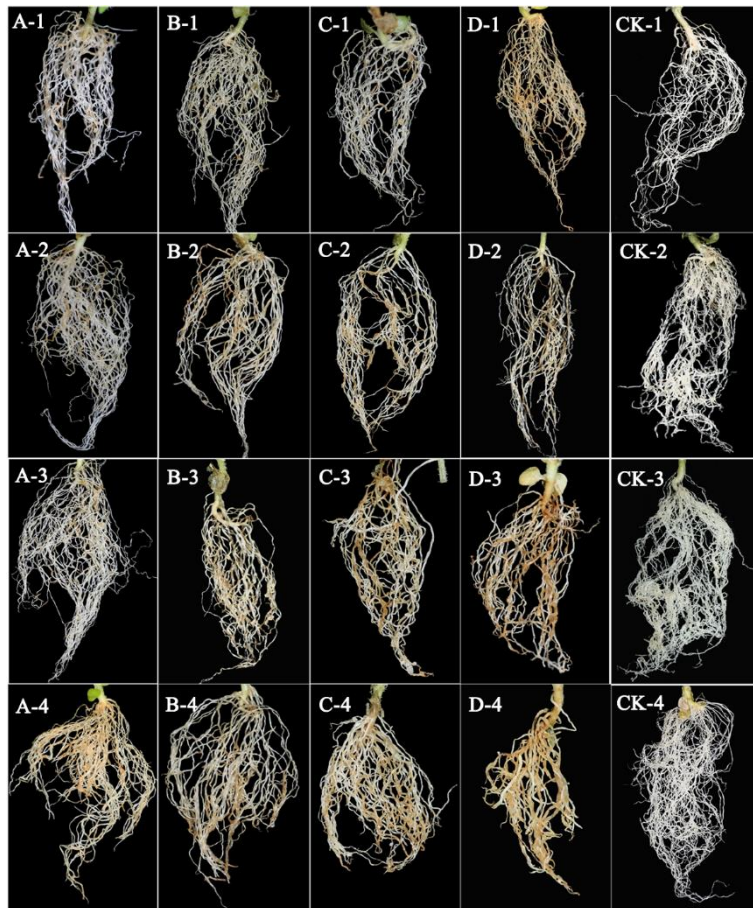


Appendix C Symptoms of *Nicotiana benthamiana* roots infected with *Radopholus similis* originated from *Citrus reticulata* (GJ-LY322). A-D: *N. benthamiana* root systems were inoculated with 50,100,150 and 200 nematodes per plant; 1-4: *N. benthamiana* root systems 9, 16, 23, and 30 days after nematode inoculation; CK: healthy control group.

Appendix D The disease severity of *Nicotiana benthamiana* roots infected with *Radopholus similis* originated from *Citrus reticulata* (GJ-LY322)

	9 days	16 days	23 days	30 days
50 nematodes/plant	0.40±0.163 a A	1.10±0.100 a B	1.90±0.100 a C	2.00±0.000 a C
100 nematodes/plant	0.70±0.153 a A	1.70±0.153 b B	2.30±0.153 a B	2.90±0.100 b C
150 nematodes/plant	1.20±0.133 b A	2.00±0.000 b B	3.30±0.153 b C	4.60±0.163 c D
200 nematodes/plant	1.40±0.163 b A	2.60±0.163 c B	4.80±0.133 c C	5.00±0.000 d C

Disease severity: a numerical representation of the severity of plant root damage, which classified into 0-5 six levels from low to high according to the discoloration area on the roots; the data in the table was the mean ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in disease severity at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in disease severity at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

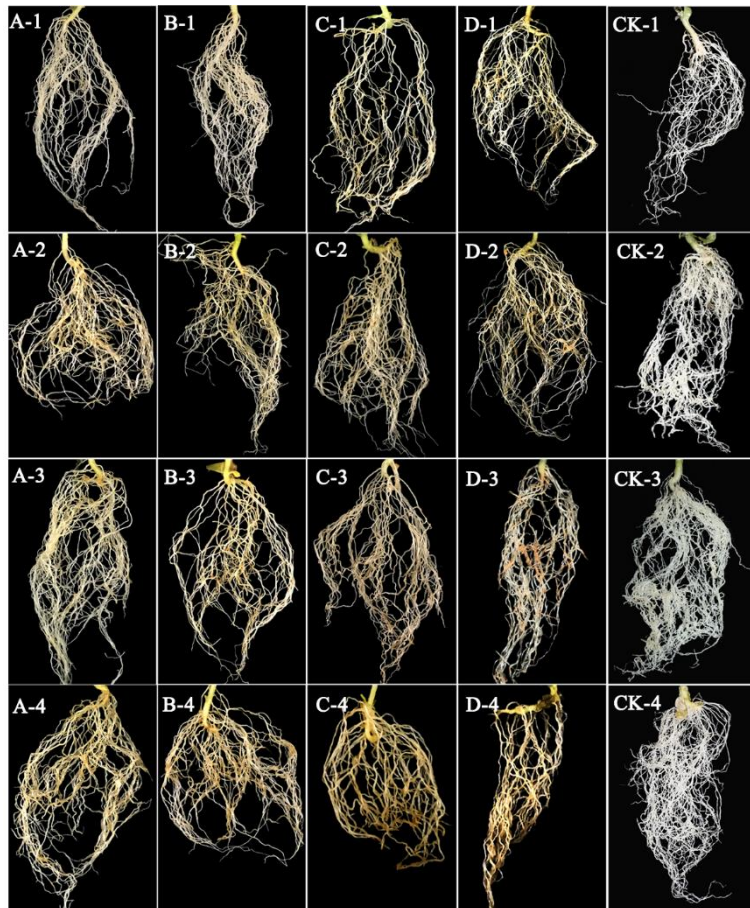


Appendix E Symptoms of *Nicotiana benthamiana* roots infected with *Radopholus similis* originated from *Anubias nana* (DBSR). A-D: *N. benthamiana* root systems were inoculated with 50,100,150 and 200 nematodes per plant; 1-4: *N. benthamiana* root systems 9, 16, 23, and 30 days after nematode inoculation; CK: healthy control group.

Appendix F The disease severity of *Nicotiana benthamiana* roots infected with *Radopholus similis* originated from *Anubias nana* (DBSR)

	9 days	16 days	23 days	30 days
50 nematodes/plant	0.50±0.167 a A	1.00±0.000 a B	1.30±0.153 a B	2.00±0.000 a C
100 nematodes/plant	1.00±0.000 b A	1.20±0.133 a A	2.00±0.000 b B	2.20±0.133 a B
150 nematodes/plant	1.20±0.133 b A	1.90±0.100 b B	2.40±0.163 c C	3.60±0.163 b D
200 nematodes/plant	2.00±0.149 c A	2.00±0.000 b B	3.60±0.163 d C	4.40±0.163 c D

Disease severity: a numerical representation of the severity of plant root damage, which classified into 0-5 six levels from low to high according to the discoloration area on the roots; the data in the table was the mean ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in disease severity at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in disease severity at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).



Appendix G Symptoms of *Nicotiana benthamiana* roots infected with *Radopholus similis* originated from *Musa* AAA Giant Cavendish cv. Baxi (HN6). A-D: *N. benthamiana* root systems were inoculated with 50,100,150 and 200 nematodes per plant; 1-4: *N. benthamiana* root systems 9, 16, 23, and 30 days after nematode inoculation; CK: healthy control group.

Appendix H The disease severity of *Nicotiana benthamiana* roots infected with *Radopholus similis* originated from *Musa* AAA Giant Cavendish cv. Baxi (HN6)

	9 days	16 days	23 days	30 days
50 nematodes/plant	0.20±0.133 a A	0.80±0.133 a B	1.00±0.000 a B	1.80±0.133 a C
100 nematodes/plant	0.40±0.163 a A	1.00±0.000 ab B	1.20±0.133 a B	2.00±0.000 a C
150 nematodes/plant	0.80±0.133 b A	1.20±0.133 b B	2.00±0.000 b C	3.00±0.000 b D
200 nematodes/plant	1.00±0.000 b A	2.00±0.000 c B	2.40±0.163 c C	3.70±0.153 c D

Disease severity: a numerical representation of the severity of plant root damage, which classified into 0-5 six levels from low to high according to the discoloration area on the roots; the data in the table was the mean ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in disease severity at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in disease severity at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix I The nematode reproductive rate of *Radopholus similis* originated from *Anthurium andraeanum* (SZ-FZ) after infected *Nicotiana benthamiana*

	9 days	16 days	23 days	30 days
50 nematodes/plant	0.32±0.016 b A	0.44±0.015 c B	1.02±0.019 d C	1.37±0.031 c D
100 nematodes/plant	0.20±0.010 a A	0.29±0.007 a B	0.92±0.013 c C	1.17±0.016 b D
150 nematodes/plant	0.31±0.007 b A	0.37±0.008 b B	0.79±0.008 a C	0.99±0.009 a D
200 nematodes/plant	0.30±0.004 b A	0.59±0.013 d B	0.84±0.016 b C	1.47±0.012 c D

Nematode reproductive rate: the proportion of the total number of nematodes in rhizosphere and root to the amount of inoculation; the data in the table was the mean ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in nematode reproductive rate at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in nematode reproductive rate at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix J The nematode reproductive rate of *Radopholus similis* originated from *Citrus reticulata* (GJ-LY322) after infected *Nicotiana benthamiana*

	9 days	16 days	23 days	30 days
50 nematodes/plant	0.36±0.009 a A	0.54±0.011 c B	0.91±0.020 b C	1.49±0.046 a D
100 nematodes/plant	0.43±0.014 b A	0.63±0.023 d B	1.05±0.026 c C	1.40±0.041 a D
150 nematodes/plant	0.42±0.012 b A	0.41±0.015 a A	0.85±0.019 a B	1.74±0.032 c C
200 nematodes/plant	0.44±0.013 b A	0.48±0.010 b B	1.14±0.017 d C	1.60±0.012 b D

Nematode reproductive rate: the proportion of the total number of nematodes in rhizosphere and root to the amount of inoculation; the data in the table was the mean ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in nematode reproductive rate at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in nematode reproductive rate at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix K The nematode reproductive rate of *Radopholus similis* originated from *Anubias nana* (DBSR) after infected *Nicotiana benthamiana*

	9 days	16 days	23 days	30 days
50 nematodes/plant	0.42±0.014 d A	0.68±0.016 c B	0.66±0.022 b B	1.10±0.023 c C
100 nematodes/plant	0.32±0.011 b A	0.43±0.010 a B	0.53±0.012 a C	0.56±0.012 a C
150 nematodes/plant	0.27±0.006 a A	0.43±0.012 a B	0.53±0.009 a C	0.87±0.011 b D
200 nematodes/plant	0.37±0.008 c A	0.56±0.009 b B	0.84±0.016 c C	1.04±0.013 c D

Nematode reproductive rate: the proportion of the total number of nematodes in rhizosphere and root to the amount of inoculation; the data in the table was the mean ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in nematode reproductive rate at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in nematode reproductive rate at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix L The nematode reproductive rate of *Radopholus similis* originated from *Musa* AAA Giant Cavendish cv. Baxi (HN6) after infected *Nicotiana benthamiana*

	9 days	16 days	23 days	30 days
50 nematodes/plant	0.42 ± 0.021 c A	0.54 ± 0.020 d B	0.71 ± 0.032 c C	0.93 ± 0.020 c D
100 nematodes/plant	0.27 ± 0.012 b A	0.36 ± 0.011 b B	0.49 ± 0.017 a C	0.74 ± 0.013 b D
150 nematodes/plant	0.21 ± 0.011 a A	0.28 ± 0.006 a B	0.52 ± 0.016 a C	0.69 ± 0.011 a D
200 nematodes/plant	0.26 ± 0.009 b A	0.42 ± 0.012 c B	0.60 ± 0.011 b C	0.74 ± 0.010 b D

Nematode reproductive rate: the proportion of the total number of nematodes in rhizosphere and root to the amount of inoculation; the data in the table was the mean ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in nematode reproductive rate at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in nematode reproductive rate at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix M Plant height of *Nicotiana benthamiana* infected with *Radopholus similis* originated from *Anthurium andraeanum* (SZ-FZ)

	9 days (cm)	16 days (cm)	23 days (cm)	30 days (cm)
50 nematodes/plant	10.10±0.16 b A	11.46±0.181 b B	13.10±0.204 d C	15.97±0.344 d D
100 nematodes/plant	9.76±0.108 b A	11.23±0.127 b B	12.58±0.124 c C	14.10±0.309 c D
150 nematodes/plant	9.83±0.169 b A	10.44±0.150 a B	11.28±0.160 b C	12.41±0.193 b D
200 nematodes/plant	8.95±0.184 a A	10.07±0.141 a B	10.54±0.129 a B	9.95±0.109 a B
CK	13.42±0.292 c A	15.81±0.333 c B	18.08±0.323 e C	19.09±1.083 e C

CK: control group without inoculation nematode; The data in the table was the mean (cm) ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in plant height at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in plant height at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix N Plant height of *Nicotiana benthamiana* infected with *Radopholus similis* originated from *Citrus reticulata* (GJ-LY322)

	9 days (cm)	16 days (cm)	23 days (cm)	30 days (cm)
50 nematodes/plant	10.90±0.026 d A	13.95±0.294 d B	15.45±0.343 d C	17.45±0.406 d D
100 nematodes/plant	10.42±0.036 c A	11.90±0.221 c B	12.74±0.236 c C	14.60±0.298 c D
150 nematodes/plant	9.98±0.149 b A	10.75±0.221 b B	11.62±0.191 b C	12.87±0.201 b D
200 nematodes/plant	8.70±0.258 a A	10.08±0.020 a B	10.64±0.192 a C	11.01±0.166 a C
CK	13.42±0.292 e A	15.81±0.333 e B	18.08±0.323 e C	19.09±1.083 e C

CK: control group without inoculation nematode; The data in the table was the mean (cm) ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in plant height at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in plant height at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix O Plant height of *Nicotiana benthamiana* infected with *Radopholus similis* originated from *Anubias nana* (DBSR)

	9 days (cm)	16 days (cm)	23 days (cm)	30 days (cm)
50 nematodes/plant	11.09±0.031 d A	12.84±0.175 c B	15.84±0.400 c C	16.94±0.235 c D
100 nematodes/plant	10.58±0.020 c A	12.39±0.332 c B	13.24±0.380 b B	16.20±0.366 c C
150 nematodes/plant	10.12±0.165 b A	11.26±0.238 b B	12.53±0.228 b C	13.51±0.279 b D
200 nematodes/plant	8.72±0.267 a A	9.70±0.264 a B	10.89±0.213 a C	10.83±0.257 a C
CK	13.42±0.292 e A	15.81±0.333 d B	18.08±0.323 d C	19.09±1.083 d C

CK: control group without inoculation nematode; The data in the table was the mean (cm) ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in plant height at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in plant height at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix P Plant height of *Nicotiana benthamiana* infected with *Radopholus similis* originated from *Musa* AAA Giant Cavendish cv. Baxi (HN6)

	9 days (cm)	16 days (cm)	23 days (cm)	30 days (cm)
50 nematodes/plant	9.67 ± 0.325 b A	12.69 ± 0.323 b B	14.63 ± 0.290 c C	16.72 ± 0.236 d D
100 nematodes/plant	9.18 ± 0.327 ab A	10.42 ± 0.247 a B	12.15 ± 0.264 b C	13.74 ± 0.469 c D
150 nematodes/plant	8.41 ± 0.262 a A	9.82 ± 0.280 a B	11.47 ± 0.339 b C	11.19 ± 0.559 b C
200 nematodes/plant	8.55 ± 0.275 a A	9.92 ± 0.229 a B	10.39 ± 0.443 a B	9.58 ± 0.372 a B
CK	13.42 ± 0.292 c A	15.81 ± 0.333 c B	18.08 ± 0.323 d C	19.09 ± 1.083 e C

CK: control group without inoculation nematode; The data in the table was the mean (cm) ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in plant height at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in plant height at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix Q Root weight of *Nicotiana benthamiana* infected with *Radopholus similis* originated from *Anthurium andraeanum* (SZ-FZ)

	9 days (g)	16 days (g)	23 days (g)	30 days (g)
50 nematodes/plant	0.082 ± 0.0039 b A	0.105 ± 0.0064 c B	0.127 ± 0.0047 c C	0.154 ± 0.0048 c D
100 nematodes/plant	0.066 ± 0.0048 a A	0.094 ± 0.0058 c B	0.121 ± 0.0035 c C	0.145 ± 0.0027 c D
150 nematodes/plant	0.056 ± 0.0048 a A	0.079 ± 0.0023 b B	0.090 ± 0.0033 b C	0.129 ± 0.0043 b D
200 nematodes/plant	0.054 ± 0.0040 a AB	0.065 ± 0.0037 a B	0.059 ± 0.0043 a AB	0.049 ± 0.0023 a A
CK	0.151 ± 0.0031 c A	0.345 ± 0.0031 d B	0.464 ± 0.0022 d C	0.600 ± 0.0052 d D

CK: control group without inoculation nematode; The data in the table was the mean (g) ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in root weight at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in root weight at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix R Root weight of *Nicotiana benthamiana* infected with *Radopholus similis* originated from *Citrus reticulata* (GJ-LY322)

	9 days (g)	16 days (g)	23 days (g)	30 days (g)
50 nematodes/plant	0.076 ± 0.0016 c A	0.088 ± 0.0029 b B	0.119 ± 0.0035 bc D	0.135 ± 0.0040 c D
100 nematodes/plant	0.071 ± 0.0023 bc A	0.090 ± 0.0015 b B	0.099 ± 0.0028 c C	0.111 ± 0.0043 b D
150 nematodes/plant	0.066 ± 0.0027 ab B	0.079 ± 0.0023 a C	0.074 ± 0.0027 b C	0.049 ± 0.0011 a A
200 nematodes/plant	0.061 ± 0.0023 a B	0.074 ± 0.0022 a C	0.050 ± 0.0026 a A	0.045 ± 0.0017 a A
CK	0.151 ± 0.0031 d A	0.345 ± 0.0031 c B	0.464 ± 0.0022 d C	0.600 ± 0.0052 d D

CK: control group without inoculation nematode; The data in the table was the mean (g) ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in root weight at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in root weight at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix S Root weight of *Nicotiana benthamiana* infected with *Radopholus similis* originated from *Anubias nana* (DBSR)

	9 days (g)	16 days (g)	23 days (g)	30 days (g)
50 nematodes/plant	0.075 ± 0.0027 b A	0.086 ± 0.0040 b B	0.115 ± 0.0031 c C	0.125 ± 0.0040 c C
100 nematodes/plant	0.074 ± 0.0027 b A	0.087 ± 0.0030 b B	0.091 ± 0.0031 b BC	0.097 ± 0.0042 b C
150 nematodes/plant	0.059 ± 0.0031 a A	0.080 ± 0.0030 b B	0.093 ± 0.0030 b C	0.063 ± 0.0030 a A
200 nematodes/plant	0.059 ± 0.0018 a A	0.071 ± 0.0018 a A	0.048 ± 0.0020 a A	0.046 ± 0.0172 a A
CK	0.151 ± 0.0031 c A	0.345 ± 0.0031 c B	0.464 ± 0.0022 d C	0.600 ± 0.0052 d D

CK: control group without inoculation nematode; The data in the table was the mean (g) ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in root weight at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in root weight at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).

Appendix T Root weight of *Nicotiana benthamiana* infected with *Radopholus similis* originated from *Musa* AAA Giant Cavendish cv. Baxi (HN6)

	9 days (g)	16 days (g)	23 days (g)	30 days (g)
50 nematodes/plant	0.126±0.0142 ab A	0.274±0.0092 c B	0.331±0.0225 d C	0.422±0.0243 c D
100 nematodes/plant	0.145±0.0054 b A	0.186±0.0161 b B	0.275±0.0095 c C	0.386±0.0167 c D
150 nematodes/plant	0.127±0.0042 ab A	0.151±0.0112 a A	0.216±0.0108 b B	0.273±0.0154 b C
200 nematodes/plant	0.111±0.0023 a A	0.132±0.0053 a A	0.164±0.0102 a B	0.129±0.0114 a A
CK	0.151±0.0031 b A	0.345±0.0031 d B	0.464±0.0022 e C	0.600±0.0052 d D

CK: control group without inoculation nematode; The data in the table was the mean (g) ± standard error of 10 repetitions; the same lowercase letters in the same column in the table show no significant difference in root weight at the level of 0.05 in the treatment of the same inoculation time and different inoculation amount, the same uppercase letters in the same row in the table show no significant difference in root weight at the level of 0.05 in the treatment of the same inoculation amount and different inoculation time (DMRT).