Supplementary:

Supplementary Table 1. Nematode PCR information

|  |  |  |  |
| --- | --- | --- | --- |
| **Site (Sample no.)** | **Sequencing result (N93/N94)** | **Host** | **Nematodes found** |
| **Arnot Hill (ARNOT)** | - | *-* | - |
| **1** | *Angiostoma margaretae* | *Tandonia budapestensis* | 1 |
| **11** | *Angiostoma margaretae* | *Tandonia budapestensis* | 1 |
| **16** | Fungal contamination | *Tandonia sowerbyi* | 1 |
| **18** | Fungal contamination | *Trochulus striolatus* | 1 |
| **21** | Fungal contamination | *Arion hortensis* | 1 |
| **26** | Fungal contamination | *Deroceras reticulatum* | 1 |
| **30** | Fungal contamination | *D. reticulatum* | 1 |
| **35 (J)** | *Angiostoma margaretae* | *Tandonia sowerbyi* | 1 |
| **39** | Not extracted | *T. sowerbyi* | 1 |
| **44** | Fungal contamination | *T. striolatus* | 1 |
| **47** | Not extracted | *T. striolatus* | 1 |
| **50** | Fungal contamination | *Cepaea nemoralis* | 1 |
| **Attenborough (ATEN)** | - | *-* |  |
| **1** | Fungal contamination | *Arion Ater* | 3 |
| **2** | Not Extracted | *A. Ater* | 3 |
| **3** | Not Extracted | *A. Ater* | 1 |
| **5** | Fungal contamination | *Arion vulgaris* | 1 |
| **8** | Not Extracted | *A. Ater* | 2 |
| **11** | Not Extracted | *A. Ater* | 1 |
| **12 (J)** | *Phasmarhabditis hermaphrodita* | *Arion rufus* | 2 |
| **13** | Not Extracted | *A. rufus* | 1 |
| **15** | Fungal contamination | *A. Ater* | 6 |
| **16** | Not Extracted | *A. Ater* | 5 |
| **20** | Fungal contamination | *C. nemoralis* | 1 |
| **21** | Fungal contamination | *Oxychilus alliarius* | 2 |
| **24** | Fungal contamination | *Cornu aspersum* | 4 |
| **25** | Not Extracted | *A. Ater* | 1 |
| **29** | Not Extracted | *A. Ater* | 3 |
| **31** | Fungal contamination | *A. vulgaris* | 1 |
| **33** | Not Extracted | *A. rufus* | 1 |
| **34** | Not Extracted | *A. rufus* | 1 |
| **37** | Fungal contamination | *C. aspersum* | 1 |
| **40** | Not Extracted | *C. aspersum* | 1 |
| **43** | Not Extracted | *C. aspersum* | 1 |
| **46** | Fungal contamination | *C. nemoralis* | 1 |
| **50** | Not Extracted | *C. nemoralis* | 1 |
| **Basford (BAS)** | - | *-* | *-* |
| **1 (J)** | *Cosmocercidae sp.* | *Cornu aspersum* | 27 |
| **6** | Fungal contamination | *D. reticulatum* | 2 |
| **11** | Fungal contamination | *T. sowerbyi* | 3 |
| **12** | Fungal contamination | *Ambigolimax valentianus* | 3 |
| **14** | Not Extracted | *T. budapestensis* | 21 |
| **24** | Fungal contamination | *A. valentianus* | 1 |
| **26** | Not Extracted | *T. budapestensis* | 6 |
| **27** | Not Extracted | *T. budapestensis* | 4 |
| **30** | Not Extracted | *D. reticulatum* | 1 |
| **31** | Not Extracted | *D. reticulatum* | 1 |
| **38** | Not Extracted | *Milax gagates* | 2 |
| **39** | Not Extracted | *Limacus maculatus* | 17 |
| **40** | Not Extracted | *L. maculatus* | 13 |
| **41** | Not Extracted | *D. reticulatum* | 2 |
| **42** | Not Extracted | *Arion subfuscus* | 4 |
| **43** | Not Extracted | *A. hortensis* | 2 |
| **45** | *Angiostoma margaretae* | *Tandonia budapestensis* | 2 |
| **47** | Not Extracted | *A.* *hortensis* | 4 |
| **49** | Not Extracted | D. reticulatum | 1 |
| **50** | Not Extracted | D. reticulatum | 2 |
| **Beeston (BEE)** | - | *-* | - |
| **1 (J)** | *Cosmocercidae sp.* | *Cornu aspersum* | 27 |
| **12** | *Angiostoma margaretae* | *Tandonia budapestensis* | 1 |
| **14** | *Angiostoma margaretae* | *Tandonia budapestensis* | 2 |
| **16** | *Angiostoma gandavense* | *Deroceras invadens* | 1 |
| **25** | Fungal contamination | *D. invadens* | 1 |
| **28** | Fungal contamination | *A. ater* | 2 |
| **Carlton (CARL)** | - | *-* | - |
| **2** | Fungal contamination | *C. aspersum* | 2 |
| **3** | Not Extracted | *C. aspersum* | 1 |
| **8** | Fungal contamination | *C. aspersum* | 2 |
| **13** | Fungal contamination | *C. nemoralis* | 2 |
| **18** | *Angiostoma margaretae* | *Deroceras reticulatum* | 3 |
| **26** | Fungal contamination | *T. budapestensis* | 1 |
| **27** | Not Extracted | *T. budapestensis* | 1 |
| **28** | Not Extracted | *T. budapestensis* | 2 |
| **29** | Not Extracted | *T. budapestensis* | 3 |
| **35** | Not Extracted | *T. budapestensis* | 3 |
| **37** | Fungal contamination | *D. invadens* | 1 |
| **41** | Not Extracted | *D. invadens* | 5 |
| **Colwick (COLW)** | - | *-* | - |
| **2** | Fungal contamination | *C. aspersum* | 1 |
| **7** | Fungal contamination | *Limacus flavus* | 1 |
| **13 (J)** | *Angiostoma margaretae* | *Deroceras invadens* | 4 |
| **18** | Fungal contamination | *Arion silvaticus* | 1 |
| **21** | Fungal contamination | *A. valentianus* | 1 |
| **24** | Not Extracted | *A. valentianus* | 1 |
| **29** | Fungal contamination | *C. hortensis* | 1 |
| **30** | Not Extracted | *C. hortensis* | 1 |
| **31** | Not Extracted | *C. hortensis* | 1 |
| **36** | Not Extracted | *C. hortensis* | 1 |
| **41** | Fungal contamination | *A. hortensis* | 1 |
| **44** | Not Extracted | *A. hortensis* | 1 |
| **46** | Not Extracted | *T. budapestensis* | 1 |
| **47** | Not Extracted | *T. budapestensis* | 1 |
| **49** | Not Extracted | *T. budapestensis* | 2 |
| **Clifton south (C-SOU)** | - | *-* | *-* |
| **1** | *Angiostoma margaretae* | *Deroceras invadens* | 3 |
| **3** | *Angiostoma gandavense* | *Deroceras reticulum* | 3 |
| **7** | *Angiostoma margaretae* | *Tandonia budapestensis* | 1 |
| **9** | *Angiostoma margaretae* | *Tandonia sowerbyi* | 6 |
| **10 (J)** | *Phasmarhabditis neopapillosa* | *Ambigolimax nyctelius* | 4 |
| **23** | Fungal contamination | *A. vulgaris* | 1 |
| **26** | Not Extracted | *D. invadens* | 1 |
| **29** | Fungal contamination | *D. reticulatum* | 1 |
| **30** | Not Extracted | *D. reticulatum* | 1 |
| **32** | Not Extracted | *T. sowerbyi* | 1 |
| **36** | Not Extracted | *T. budapestensis* | 1 |
| **42** | Fungal contamination | *C. nemoralis* | 1 |
| **45** | Fungal contamination | *A. vulgaris* | 1 |
| **Edwalton (EDW)** | - | *-* | *-* |
| **1 (J)** | *Angiostoma margaretae* | *Tandonia budapestensis* | 31 |
| **2** | *Angiostoma margaretae* | *Tandonia budapestensis* | 5 |
| **3** | Not Extracted | *T. budapestensis* | 11 |
| **4** | Not Extracted | *T. budapestensis* | 2 |
| **5** | *Agfa flexilis* | *Limacus maculatus* | 4 |
| **6** | Fungal contamination | *A. silvaticus* | 2 |
| **7** | Fungal contamination | *A. hortensis* | 1 |
| **9** | Fungal contamination | *D. invadens* | 1 |
| **23** | Not Extracted | *C. aspersum* | 8 |
| **27** | Not Extracted | *C. aspersum* | 22 |
| **30** | Not Extracted | *T. budapestensis* | 1 |
| **32** | Not Extracted | *T. budapestensis* | 1 |
| **34** | Not Extracted | *C. aspersum* | 1 |
| **38** | Not Extracted | *D. invadens* | 1 |
| **40** | Not Extracted | *D. invadens* | 1 |
| **41** | Not Extracted | *D. invadens* | 1 |
| **44** | Not Extracted | *D. invadens* | 1 |
| **46** | Not Extracted | *T. striolatus* | 1 |
| **47** | Not Extracted | *C. hortensis* | 1 |
| **50** | Not Extracted | *C. hortensis* | 1 |
| **Forest field (FOR)** | - | *-* | - |
| **18** | Not Extracted | *L. maculatus* | 1 |
| **20** | *Agfa flexilis* | *Limacus maculatus* | 1 |
| **26** | *Agfa flexilis* | *Limax maximus* | 3 |
| **27** | Not Extracted | *L. maximus* | 4 |
| **30** | Fungal contamination | *C. aspersum* | 5 |
| **33** | Not Extracted | *L. maculatus* | 4 |
| **35** | Not Extracted | *L. maculatus* | 4 |
| **36 (J)** | *Angiostoma margaretae* | *Ambigolimax valentianus* | 1 |
| **38** | Fungal contamination | *A. hortensis* | 1 |
| **45** | Fungal contamination | *T. budapestensis* | 1 |
| **46** | Not Extracted | *T. budapestensis* | 1 |
| **Gamston (GAM)** | - | *-* | - |
| **1** | *Angiostoma margaretae* | *Deroceras invadens* | 2 |
| **6** | Fungal contamination | *L. maculatus* | 1 |
| **9** | Not Extracted | *L. maculatus* | 1 |
| **13** | Fungal contamination | *A. valentianus* | 1 |
| **14** | Fungal contamination | *A. valentianus* | 1 |
| **15** | Not Extracted | *A. valentianus* | 2 |
| **16 (J)** | *Phasmarhabditis neopapillosa* | *Ambigolimax valentianus* | 1 |
| **17** | Not Extracted | *A. valentianus* | 2 |
| **27** | Fungal contamination | *M. cantiana* | 1 |
| **Grange Park (GRAN)** | - | *-* | - |
| **1** | *Agfa flexilis* | *Tandonia Budapestensis* | 1 |
| **13** | *Agfa flexilis* | *Arion vulgaris* | 1 |
| **15** | Fungal contamination | *A. Vulgaris* | 1 |
| **23** | Fungal contamination | *A. subfuscus* | 7 |
| **27** | Not Extracted | *A. subfuscus* | 1 |
| **29** | Fungal contamination | *A. subfuscus* | 2 |
| **34** | Fungal contamination | *T. budapestensis* | 6 |
| **37** | Fungal contamination | *D. invadens* | 2 |
| **42** | Fungal contamination | *D. reticulatum* | 1 |
| **48** | Fungal contamination | *A. Vulgaris* | 1 |
| **Kimberley (KIM)** | - | *-* | - |
| **1** | *Angiostoma gandavense* | *Deroceras invadens* | 3 |
| **9** | Not Extracted | *D. invadens* | 1 |
| **12** | Fungal contamination | *O. alliarius* | 1 |
| **14** | Not Extracted | *O. alliarius* | 1 |
| **18** | Not Extracted | *O. alliarius* | 1 |
| **19** | Fungal contamination | *O. alliarius* | 1 |
| **20** | Not Extracted | *O. alliarius* | 4 |
| **21** | Fungal contamination | *A. hortensis* | 1 |
| **24** | Not Extracted | *A. hortensis* | 2 |
| **32** | Not Extracted | *A. hortensis* | 2 |
| **33** | *Angiostoma gandavense* | *Arion hortensis* | 3 |
| **37** | Not Extracted | *D. reticulatum* | 1 |
| **40 (J)** | *Cosmocercidae sp.* | *Cornu aspersum* | 32 |
| **42** | Not Extracted | *C. nemoralis* | 1 |
| **45** | Not Extracted | *C. nemoralis* | 1 |
| **46** | Not Extracted | *C. nemoralis* | 1 |
| **Bestwood Country Park (MILL)** | - | *-* | - |
| **3** | Fungal contamination | *C. aspersum* | 1 |
| **19 (J)** | *Cosmocercidae sp.* | *Cornu aspersum* | 19 |
| **21** | Fungal contamination | *A. vulgaris* | 2 |
| **33** | Fungal contamination | *M. cantiana* | 1 |
| **Iremongers pond (POND)** | - | *-* | - |
| **5** | Fungal contamination | *D. reticulatum* | 1 |
| **14** | *Cosmocerca longicauda* | *Limax flavus* | 7 |
| **21** | Fungal contamination | *D. reticulatum* | 1 |
| **25** | Fungal contamination | *D. invadens* | 1 |
| **37** | Fungal contamination | *L. flavus* | 1 |
| **45** | Fungal contamination | *A. rufus* | 1 |
| **Toton (TOT)** | - | - | - |
| **11** | Fungal contamination | *A. ater* | 2 |
| **13** | Fungal contamination | *T. sowerbyi* | 4 |
| **21** | Fungal contamination | *C. nemoralis* | 1 |
| **24** | *Phasmarhabditis hermaphrodita* | *Cepaea nemoralis* | 1 |
| **25 (J)** | *Phasmarhabditis hermaphrodita* | *Arion subfuscus* | 6 |
| **26** | Fungal contamination | *A. ater* | 2 |
| **33** | Fungal contamination | *A. subfuscus* | 1 |
| **39** | Fungal contamination | *A. ater* | 1 |
| **47** | Fungal contamination | *T. sowerbyi* | 1 |
| **University Park (UNI)** | - | *-* | - |
| **2** | Fungal contamination | *A. valentianus* | 1 |
| **3** | Fungal contamination | *A. valentianus* | 1 |
| **15** | *Agfa flexilis* | *Tandonia budapestensis* | 1 |
| **17** | Fungal contamination | *T. budapestensis* | 1 |
| **39** | Fungal contamination | *A. valentianus* | 1 |

Note: (J) indicates it was a juvenile nematode.

Supplementary Table 2. Trematode PCR information

|  |  |  |  |
| --- | --- | --- | --- |
| **Site (Sample no.)** | **Sequencing result (LPF/LPR)** | **Host** | **Trematodes found** |
| **Arnot Hill (ARNOT)** | - | - |  - |
| **18** | *Brachylaima fuscata* | *Trochulus striolatus* | 1 |
| **Basford (BAS)** | - | - |  - |
| **11** | *Brachylaima arcuata* | *Tandonia sowerbyi* | 1 |
| **26** | *Brachylaima fuscata* | *Cornu aspersum* | 2 |
| **38** | Fungal contamination | *Milax gagates* | 4 |
| **41** | Fungal contamination | *Deroceras reticulatum* | 1 |
| **Carlton (CARL)** | - | - |  - |
| **12** | *Brachylaima mesostoma* | *Cepaea nemoralis* | 4 |
| **13** | *Brachylaima mesostoma* | *Cepaea nemoralis* | 3 |
| **19** | Fungal contamination | *D. reticulatum* | 5 |
| **37** | Not Extracted | *Deroceras invadens* | 4 |
| **41** | Fungal contamination | *D. invadens* | 2 |
| **45** | Not Extracted | *D. invadens* | 3 |
| **Colwick (COLW)** | - | - |  - |
| **2** | *Brachylaima fuscata* | *Cornu aspersum* | 3 |
| **11** | Fungal contamination | *D. invadens* | 2 |
| **21** | Fungal contamination | *Ambigolimax valentianus* | 2 |
| **25** | Not Extracted | *A. valentianus* | 2 |
| **Clifton south (C-SOU)** | - | - |  - |
| **19** | *Brachylaima mesostoma* | *Cepaea nemoralis* | 10 |
| **Edwalton (EDW)** | - | - |  - |
| **8** | *Brachylaima fuscata* | *Deroceras invadens* | 2 |
| **20** | Fungal contamination | *Trochulus striolatus* | 1 |
| **23** | Fungal contamination | *C. aspersum* | 11 |
| **25** | *Brachylaima fuscata* | *Cornu aspersum* | 3 |
| **Forest field (FOR)** | - | - |  - |
| **4** | *Brachylaima fuscata* | *Deroceras invadens* | 1 |
| **18** | Fungal contamination | *Limacus maculatus* | 1 |
| **23** | *Brachylaima arcuata* | *Tandonia budapestensis* | 2 |
| **47** | Fungal contamination | *D. invadens* | 1 |
| **Gamston (GAM)** | - | - |  - |
| **3** | *Brachylaima fuscata* | *Ambigolimax valentianus* | 2 |
| **13** | Not Extracted | *A. valentianus* | 9 |
| **15** | *Brachylaima fuscata* | *Ambigolimax valentianus* | 15 |
| **16** | *Brachylaima fuscata* | *Ambigolimax valentianus* | 23 |
| **23** | Not Extracted | *T. striolatus* | 11 |
| **26** | *Brachylaima fuscata* | *Cepaea hortensis* | 2 |
| **27** | Not Extracted | *Monacha cantiana* | 4 |
| **28** | Not Extracted | *Cornu aspersum* | 36 |
| **29** | Not Extracted | *C. aspersum* | 2 |
| **30** | Not Extracted | *C. aspersum* | 3 |
| **33** | Not Extracted | *C. aspersum* | 2 |
| **34** | Not Extracted | *C. aspersum* | 5 |
| **37** | Fungal contamination | *D. invadens* | 1 |
| **46** | Not Extracted | *C. nemoralis* | 2 |
| **48** | Not Extracted | *C. nemoralis* | 2 |
| **Grange Park (GRAN)** | - | - |  - |
| **8** | *Brachylaima arcuata* | *Deroceras reticulatum* | 4 |
| **Kimberley (KIM)** | - | - |  - |
| **3** | *Brachylaima arcuata* | *Deroceras invadens* | 3 |
| **10** | *Brachylaima arcuata* | *Deroceras invadens* | 2 |
| **37** | *Brachylaima arcuata* | *Deroceras reticulatum* | 1 |
| **40** | *Brachylaima fuscata* | *Cornu aspersum* | 8 |
| **Bestwood Country Park (MILL)** | - | - |  - |
| **4a** | *Brachylaima arcuata* | *Monacha cantiana* | 14 |
| **4b** | *Brachylaima arcuata* | *Monacha cantiana* | 14 |
| **31** | *Brachylaima arcuata* | *Monacha cantiana* | 3 |
| **32** | *Brachylaima arcuata* | *Monacha cantiana* | 1 |
| **35** | *Brachylaima arcuata* | *Monacha cantiana* | 1 |
| **Iremongers pond (POND)** | - | - |  - |
| **5** | *Brachylaima arcuata* | *Deroceras reticulatum* | 3 |
| **8** | *Brachylaima arcuata* | *Deroceras reticulatum* | 4 |
| **University Park (UNI)** | - | - | -  |
| **5** | *Brachylaima arcuata* | *Ambigolimax valentianus* | 2 |
| **37** | Fungal contamination | A. valentianus | 1 |
| **39** | *Plagiorchioidea sp.* | *Ambigolimax valentianus* | 8 |
| **41** | Fungal contamination | A. valentianus | 1 |

Supplementary Table 3. GenBank accession numbers for the nematode and trematode ML phylogenetic tree.

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| **Nematodes** |
| **Isolate** | **Accession no.** | **Species** |
| - | MK214813 | *Agfa flexilis* |
| - | MF460455 | *Amphibiophilus mooiensis* |
| - | MK214814 | *Angiostoma dentiferum* |
| - | MK214815 | *Angiostoma gandavense* |
| - | MF192968 | *Angiostoma margaretae* |
| - | MK214816 | *Angiostoma norvegicum* |
| - | LC052773 | *Cosmocerca japonica* |
| - | OL472308 | *Cosmocerca longicauda* |
| - | OL472309 | *Cosmocerca longicauda* |
| - | OL472310 | *Cosmocerca longicauda* |
| - | OL472311 | *Cosmocerca longicauda* |
| - | MT108302 | *Cosmocerca ornata* |
| - | MN839761 | *Cosmocerca simile* |
| - | LC018444 | *Cosmocercoides pulcher* |
| - | MH178314 | *Cosmocercoides pulcher* |
| - | MH178315 | *Cosmocercoides pulcher* |
| - | MH178316 | *Cosmocercoides pulcher* |
| - | MH178317 | *Cosmocercoides pulcher* |
| - | MH178318 | *Cosmocercoides pulcher* |
| - | MH032772 | *Cosmocercoides qingtianensis* |
| - | MH032773 | *Cosmocercoides* *qingtianensis* |
| - | MH032774 | *Cosmocercoides qingtianensis* |
| - | MH178311 | *Cosmocercoides qingtianensis* |
| - | MH178312 | *Cosmocercoides qingtianensis* |
| - | MH178313 | *Cosmocercoides qingtianensis* |
| - | LC186007 | *Meteterakis amamiensis* |
| - | LC186015 | *Meteterakis formosensis* |
| - | LC185990 | *Meteterakis occidentalis* |
| - | JQ995315 | *Paraspidodera uncinata* |
| - | FJ516761 | *Phasmarhabditis hermaphrodita* |
| - | KM510201 | *Phasmarhabditis hermaphrodita* |
| - | KM510202 | *Phasmarhabditis hermaphrodita* |
| - | MG551718 | *Phasmarhabditis hermaphrodita* |
| - | MK214817 | *Phasmarhabditis hermaphrodita* |
| - | FJ516760 | *Phasmarhabditis neopapillosa* |
| Edwalton 5 | OP626220 | *Agfa flexilis* |
| Forest 20 | OP626221 | *Agfa flexilis* |
| Forest 26 | OP626222 | *Agfa flexilis* |
| Grange 1 | OP626223 | *Agfa flexilis* |
| Grange 13 | OP626224 | *Agfa flexilis* |
| University 15 | OP626225 | *Agfa flexilis* |
| Arnot 1 | OP626226 | *Angiostoma margaretae* |
| Arnot 11 | OP626227 | *Angiostoma margaretae* |
| Arnot 35 | OP626228 | *Angiostoma margaretae* |
| Basford 45 | OP626229 | *Angiostoma margaretae* |
| Beeston 12 | OP626230 | *Angiostoma margaretae* |
| Beeston 14 | OP626231 | *Angiostoma margaretae* |
| Beeston 16 | OP626232 | *Angiostoma gandavensis* |
| Carlton 18 | OP626233 | *Angiostoma margaretae* |
| Colwick 13 | OP626234 | *Angiostoma margaretae* |
| Clifton south 1 | OP626235 | *Angiostoma margaretae* |
| Clifton south 3 | OP626236 | *Angiostoma gandavensis* |
| Clifton south 7 | OP626237 | *Angiostoma margaretae* |
| Clifton south 9 | OP626238 | *Angiostoma margaretae* |
| Edward 1 | OP626239 | *Angiostoma margaretae* |
| Edward 2 | OP626240 | *Angiostoma margaretae* |
| Forest 36 | OP626241 | *Angiostoma margaretae* |
| Gamston 1 | OP626242 | *Angiostoma margaretae* |
| Kimberley 1 | OP626243 | *Angiostoma gandavensis* |
| Kimberley 33 | OP626244 | *Angiostoma gandavensis* |
| Aten 12 | OP626245 | *Phasmarhabditis hermaphrodita* |
| Clifton South 10 | OP626246 | *Phasmarhabditis neopapillosa* |
| Gamston 16 | OP626247 | *Phasmarhabditis neopapillosa* |
| Toton 24 | OP626248 | *Phasmarhabditis hermaphrodita* |
| Toton 25 | OP626249 | *Phasmarhabditis hermaphrodita* |
| Basford 1 | OP626250 | *Cosmocercidae sp.* |
| Beeston 1 | OP626251 | *Cosmocercidae sp.* |
| Kimberley 40 | OP626252 | *Cosmocercidae sp.* |
| Mill 19 | OP626253 | *Cosmocercidae sp.* |
| Pond 14 | OP626254 | *Cosmocerca longicauda* |
| **Trematode** |
| **Isolate** | **Accession no.** | **Species** |
| - | AY222159 | *Auridistomum chelydrae* |
| - | KR703279 | *Brachycladium goliath* |
| - | AY222160 | *Brachycoelium salamandrae* |
| - | KT074950 | *Brachylaima arcuata* |
| - | KT074952 | *Brachylaima fuscata* |
| - | KP903640 | *Brachylaima mesostoma* |
| - | KT074951 | *Brachylaima mesostoma* |
| - | KT074954 | *Brachylaima mesostoma* |
| - | KT074955 | *Brachylaima mesostoma* |
| - | AY222084 | *Brachylaima sp.* |
| - | AY222085 | *Brachylaima thompsoni* |
| - | MW361240 | *Cryptocotyle lingua* |
| - | KX815125 | *Haplorchis pumilio* |
| - | MT568786 | *Haplorchis sp.* |
| - | AY222158 | *Macroderoides typicus* |
| - | JQ886404 | *Mesocoelium lanfrediae* |
| - | MK482055 | *Metorchis orientalis* |
| - | LC647154 | *Michajlovia turdi* |
| - | MK602324 | *Michajlovia turdi* |
| - | AY222157 | *Opisthioglyphe ranae* |
| - | MZ768805 | *Opisthioglyphe ranae* |
| - | MZ787582 | *Opisthioglyphe ranae* |
| - | MZ751051 | *Telorchis assula* |
| - | MZ753784 | *Telorchis assula* |
| - | MZ753903 | *Telorchis assula* |
| - | MZ798276 | *Telorchis assula* |
| - | KP903630 | *Urotocus rossitensis* |
| - | KP903635 | *Urotocus rossitensis* |
| Arnot 18 | OP626191 | *Brachylaima fuscata* |
| Basford 11 | OP626192 | *Brachylaima arcuata* |
| Basford 26 | OP626193 | *Brachylaima fuscata* |
| Carlton 12 | OP626194 | *Brachylaima mesostoma* |
| Carlton 13 | OP626195 | *Brachylaima mesostoma* |
| Colwick 2 | OP626196 | *Brachylaima fuscata* |
| Clifton South 19 | OP626197 | *Brachylaima mesostoma* |
| Edwalton 8 | OP626198 | *Brachylaima fuscata* |
| Edwalton 25 | OP626199 | *Brachylaima fuscata* |
| Forest 4 | OP626200 | *Brachylaima fuscata* |
| Forest 23 | OP626201 | *Brachylaima arcuata* |
| Gamston 3 | OP626202 | *Brachylaima fuscata* |
| Gamston 15 | OP626203 | *Brachylaima fuscata* |
| Gamston 16 | OP626204 | *Brachylaima fuscata* |
| Gamston 26 | OP626205 | *Brachylaima fuscata* |
| Grange 8 | OP626206 | *Brachylaima arcuata* |
| Kimberley 3 | OP626207 | *Brachylaima arcuata* |
| Kimberley 10 | OP626208 | *Brachylaima arcuata* |
| Kimberley 37 | OP626209 | *Brachylaima arcuata* |
| Kimberley 40 | OP626210 | *Brachylaima fuscata* |
| Mill 4a | OP626211 | *Brachylaima arcuata* |
| Mill 4b | OP626212 | *Brachylaima arcuata* |
| Mill 31 | OP626213 | *Brachylaima arcuata* |
| Mill 32 | OP626214 | *Brachylaima arcuata* |
| Mill 35 | OP626215 | *Brachylaima arcuata* |
| Pond 5 | OP626216 | *Brachylaima arcuata* |
| Pond 8 | OP626217 | *Brachylaima arcuata* |
| University 5 | OP626218 | *Brachylaima arcuata* |
| University 39 | OP626219 | *Plagiorchioidea sp.* |

Supplementary Table 4. Gastropod species found at popular dog walking sites in the city of Nottingham and their relevance as intermediate hosts for different lungworm nematode species. Intermediate host status confirmed by Alicata, (1965); Skorping et al., (1980); Campbell et al., (1988); Diez-Baños et al., (1989); Schjetlein et al., (1995); Grewal et al., 2003; Majoros et al., (2010); Panayotova-Pencheva, (2011); Patel et al., (2014); Helm et al., (2015); Conboy, (2015); Aziz et al., (2016); Hadi, (2018); Lange et al., (2018); Hicklenton et al., (2019); Fuehrer et al., (2020) and Penagos-Tabares et al., (2020).

|  |  |  |
| --- | --- | --- |
| **Family** | **Species** | **Intermediate host?** |
| **Agriolimacidae** | *Deroceras invadens* | (Reise, Hutchinson, Schunack & Schlitt, 2011) | Yes 3 |
| *Deroceras reticulatum* | (Müller, 1774) | Yes 1, 2, 3, 4, 6, 11 |
| **Arionidae** | *Arion ater* | (Linnaeus, 1758) | Yes 3 |
| *Arion hortensis* | (Férussac, 1819) | Yes 3, 4, 5, 6, 7 |
| *Arion rufus* | (Linnaeus, 1758) | Yes 3 |
| *Arion silvaticus* | (Lohmander, 1937) | Yes 5 |
| *Arion subfuscus* | (O.F. Müller, 1774) | Yes 3, 5, 6, 7 |
| *Arion vulgaris* | (Moquin-Tandon, 1855) | Yes 1, 3, 4, 10 |
| **Boettgerillidae** | *Boettgerilla pallens* | (Simroth, 1912) | No |
| **Discidae** | *Discus rotundatus* | (Müller, 1774) | Yes 3 |
| **Helicidae** | *Arianta arbustorum* | (Linnaeus, 1758) | Yes 3, 4, 5, 6, 7 |
| *Cepaea hortensis* | (O.F. Müller, 1774) | Yes 4, 6, 7 |
| *Cepaea nemoralis* | (O.F. Müller, 1774) | Yes 3, 4, 6, 7 |
| *Cornu aspersum* | (O.F. Müller, 1774) | Yes 1, 3, 4, 7, 8, 9 |
| **Hygromiidae** | *Trochulus hispidus* | (Linnaeus, 1758) | Yes 5 |
| *Trochulus striolatus* | (Pfeiffer, 1828) | No |
| *Monacha cantiana* | (Montagu, 1803) | Yes 5, 6, 9 |
| **Limacidae** | *Ambigolimax nyctelius* | (Bourguignat, 1861) | No |
| *Ambigolimax valentianus* | (Férussac, 1821) | No |
| *Limacus flavus* | (Linnaeus, 1758) | Yes 1, 2, 3, 6 |
| *Limacus maculatus* | (Kaleni-czenko, 1851) | Yes 3 |
| *Limax maximus* | (Linnaeus, 1758) | Yes 1, 3, 4, 8, 11 |
| **Milacidae** | *Milax gagates* | (Draparnaud, 1801) | Yes 3 |
| *Tandonia budapestensis* | (Hazay, 1880) | No |
| *Tandonia sowerbyi* | (Férussac, 1823) | Yes 3, 6 |
| **Oxychilidae** | *Oxychilus alliarius* | (Miller, 1822) | Yes 2 |

Note: 1*Aelurostrongylus abstrusus;* 2*Angiostrongylus cantonensis;* 3*Angiostrongylus vasorum;* 4*Crenosoma vulpis;* 5*Elaphostrongylus rangiferi;* 6*Muellerius capillaris*;7*Neostrongylus linearis*;8*Oslerus rostratus*;9*Prostrongylus rufescens*;10*Troglostrongylus wilsoni*;11*Umingmakstrongylus pallikuukensis*.