**Another plea for ‘best practice’ in molecular approaches to trematode systematics: *Diplostomum* sp. clade Q identified as *Diplostomum baeri* Dubois, 1937 in Europe**

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**Table S1.** Summary data for sequences of *Diplostomum* spp. retrieved from GenBank

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Species name as in GenBank | Identification provided in Blasco-Costa et al. (2014), Selbach et al. (2015), Kudlai et al. (2017), Achatz et al. (2021), Schwelm et al. (2021) | Stage | Host | Country | GenBank accession numbers | | Source |
| **ITS1-8.5S-ITS2** | ***cox*1** |
| *Diplostomum baeri* | − | M | *Salmo trutta* | Scotland | MT322839 | MT311204 | Landeryou et al. (2020) |
| *Diplostomum baeri* | − | M | *Salmo trutta* | Scotland | − | MT302208 | Landeryou et al. (2020) |
| *Diplostomum baeri* | − | M | *Salmo trutta* | Scotland | MT322840 | − | Landeryou et al. (2020) |
| *Diplostomum baeri* | − | M | *Salmo trutta fario* | Germany | − | JX986863 | Georgieva et al. (2013) |
| *Diplostomum baeri* | *Diplostomum adamsi* | A | *Larus delawarensis* (exp.) | Canada | AY123042 | − | Galazzo et al. (2002) |
| *Diplostomum* sp.Lin 3 | '*Diplostomum baeri* Lineage 1' | M | *Salmo trutta* | Norway | − | KY513188 | Soldánová et al. (2017) |
| *Diplostomum baeri* | '*Diplostomum baeri* Lineage 1' | M | *Perca fluviatilis* | Germany | JQ665460 | − | Behrmann-Godel (2013) |
| *Diplostomum baeri* | '*Diplostomum baeri* Lineage 1' | M | *Gobio gobio* | Germany | JX986855 | − | Georgieva et al. (2013) |
| *Diplostomum baeri* complex sp. 2 | '*Diplostomum baeri* Lineage 2' | M | *Gasterosteus aculeatus* | Norway | − | KM212032 | Kuhn et al. (2015) |
| *Diplostomum* sp. Lin 4 | '*Diplostomum baeri* Lineage 2' | C | *Radix peregra* | Iceland | − | KJ726476 | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 4 | '*Diplostomum baeri* Lineage 2' | M | *Gasterosteus aculeatus* | Iceland | KJ726527 | − | Blasco-Costa et al. (2014) |
| *Diplostomum mergi* | ‘*Diplostomum* *mergi* Lineage 2' | C | *Radix auricularia* | Germany | − | JX986876 | Georgieva et al. (2013) |
| *Diplostomum mergi* | ‘*Diplostomum* *mergi* Lineage 2' | C | *Radix auricularia* | Germany | − | KR149523 | Selbach et al. (2015) |
| *Diplostomum mergi* | ‘*Diplostomum* *mergi* Lineage 2' | C | *Radix auricularia* | Germany | KR149493 | − | Selbach et al. (2015) |
| *Diplostomum mergi* | ‘*Diplostomum* *mergi* Lineage 2' | C | *Radix auricularia* | Germany | KR149494 | − | Selbach et al. (2015) |
| *Diplostomum mergi* | '*Diplostomum mergi* Lineage 3' | C | *Radix auricularia* | Germany | − | KR149525 | Selbach et al. (2015) |
| *Diplostomum mergi* | '*Diplostomum mergi* Lineage 3' | M | *Salmo trutta fario* | Germany | − | JX986880 | Georgieva et al. (2013) |

Table S1 (continued)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Species name as in GenBank | Identification provided in Blasco-Costa et al. (2014), Selbach et al. (2015), Kudlai et al. (2017), Achatz et al. (2021), Schwelm et al. (2021) | Stage | Host | Country | GenBank accession numbers | | Source |
| **ITS1-8.5S-ITS2** | ***cox*1** |
| *Diplostomum mergi* | '*Diplostomum mergi* Lineage 3' | M | *Gobio gobio* | Germany | JX986840 | − | Georgieva et al. (2013) |
| *Diplostomum mergi* | '*Diplostomum mergi* Lineage 3' | C | *Radix auricularia* | Germany | KR149496 | − | Selbach et al. (2015) |
| *Diplostomum mergi* | '*Diplostomum mergi* Lineage 4' | C | *Radix auricularia* | Germany | − | KR149528 | Selbach et al. (2015) |
| *Diplostomum mergi* | '*Diplostomum mergi* Lineage 4' | C | *Radix balthica* | Denmark | JX494231 | − | Haarder et al. (2013) |
| *Diplostomum mergi* | '*Diplostomum mergi* Lineage 4' | C | *Radix auricularia* | Germany | KR149499 | − | Selbach et al. (2015) |
| *Diplostomum parviventosum* | − | C | *Radix auricularia* | Germany | − | KR149504 | Selbach et al. (2015) |
| *Diplostomum parviventosum* | − | C | *Radix auricularia* | Germany | − | KR149510 | Selbach et al. (2015) |
| *Diplostomum mergi* | *Diplostomum parviventosum* | C | *Radix auricularia* | Germany | JX986838 | − | Georgieva et al. (2013) |
| *Diplostomum parviventosum* | − | C | *Radix auricularia* | Germany | KR149490 | − | Selbach et al. (2015) |
| *Diplostomum phoxini* | − | C | *Radix balthica* | Norway | − | KY513185 | Soldánová et al. (2017) |
| *Diplostomum phoxini* | − | M | *Phoxinus phoxinus* | Norway | − | KY513186 | Soldánová et al. (2017) |
| *Diplostomum pseudospathaceum* | − | A | *Larus cachinnans* | Czech Republic | − | JX986896 | Georgieva et al. (2013) |
| *Diplostomum pseudospathaceum* | − | C | *Lymnaea stagnalis* | Germany | − | KR149532 | Selbach et al. (2015) |
| *Diplostomum pseudospathaceum* | − | M | *Gymnocephalus cernua* | Germany | JQ665456 | − | Behrmann-Godel (2013) |
| *Diplostomum pseudospathaceum* | − | A | *Larus ridibundus* | Czech Republic | KR269766 | − | Brabec et al. (2015) |
| *Diplostomum spathaceum* | − | M | *Gasterosteus aculeatus* | Iceland | − | KJ726433 | Blasco-Costa et al. (2014) |
| *Diplostomum spathaceum* | − | A | *Larus ridibundus* | Spain | − | KP025775 | Pérez-del-Olmo et al. (2014) |
| *Diplostomum spathaceum* | − | M | *Gasterosteus aculeatus* | Iceland | KJ726508 | − | Blasco-Costa et al. (2014) |
| *Diplostomum spathaceum* | − | C | *Radix auricularia* | Germany | KR149502 | − | Selbach et al. (2015) |
| *Diplostomum* sp. Lin 2 | *Diplostomum* *rauschi* | M | *Salmo trutta fario* | Iceland | − | KJ726453 | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 2 | *Diplostomum* *rauschi* | C | *Radix peregra* | Iceland | − | KJ726456 | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 2 | '*Diplostomum* sp. Lineage 2' | M | *Salmo trutta fario* | Iceland | KJ726510 | − | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 2 | '*Diplostomum* sp. Lineage 2' | M | *Salmo trutta fario* | Iceland | KJ726511 | − | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 5 | '*Diplostomum* sp. Lineage 5' | M | *Salvelinus alpinus* | Iceland | − | KJ726490 | Blasco-Costa et al. (2014) |

Table S1 (continued)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Species name as in GenBank | Identification provided in Blasco-Costa et al. (2014), Selbach et al. (2015), Kudlai et al. (2017), Achatz et al. (2021), Schwelm et al. (2021) | Stage | Host | Country | GenBank accession numbers | | Source |
| **ITS1-8.5S-ITS2** | ***cox*1** |
| *Diplostomum* sp. Lin 5 | '*Diplostomum* sp. Lineage 5' | M | *Gasterosteus aculeatus* | Norway | − | KR271078 | Locke et al. (2015) |
| *Diplostomum* sp. Lin 5 | '*Diplostomum* sp. Lineage 5' | M | *Salmo trutta fario* | Iceland | KJ726529 | − | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 5 | '*Diplostomum* sp. Lineage 5' | M | *Salvelinus alpinus* | Iceland | KJ726532 | − | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 6 | '*Diplostomum* sp. Lineage 6' | C | *Radix peregra* | Iceland | − | KJ726497 | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 6 | '*Diplostomum* sp. Lineage 6' | M | *Gasterosteus aculeatus* | Norway | − | KM212042 | Kuhn et al. (2015) |
| *Diplostomum* sp. Lin 6 | '*Diplostomum* sp. Lineage 6' | M | *Gasterosteus aculeatus* | Iceland | KJ726535 | − | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. Lin 6 | '*Diplostomum* sp. Lineage 6' | C | *Radix peregra* | Iceland | KJ726537 | − | Blasco-Costa et al. (2014) |
| *Diplostomum* sp. A | − | M | *Blicca bjoerkna* | Slovakia | − | KY654034 | Kudlai et al. (2017) |
| *Diplostomum* sp. B | − | M | *Carassius gibelio* | Slovakia | − | KY654035 | Kudlai et al. (2017) |
| *Diplostomum* sp. C | − | M | *Rutilus rutilus* | Slovakia | − | KY654036 | Kudlai et al. (2017) |
| *Diplostomum mergi* | *Diplostomum* sp. Clade Q | M | *Rutilus rutilus* | Germany | − | JQ639178 | Behrmann-Godel (2013) |
| *Diplostomum mergi* | *Diplostomum* sp. Clade Q | M | *Rutilus rutilus* | Germany | − | JQ639177 | Behrmann-Godel (2013) |
| *Diplostomum mergi* | *Diplostomum* sp. Clade Q | C | *Radix auricularia* | Germany | − | JQ639179 | Behrmann-Godel (2013) |
| *Diplostomum* sp. Clade Q | − | M | *Cyprinus carpio* | Spain | − | KP025770 | Pérez-del-Olmo et al. (2014) |
| *Diplostomum* sp. Clade Q | − | C | *Radix auricularia* | Germany | − | KR149554 | Selbach et al. (2015) |
| *Diplostomum* sp. Clade Q | − | C | *Radix* cf*. peregra* | Germany | − | KR271470 | Locke et al. (2015) |
| *Diplostomum* sp. Clade Q | − | C | *Radix* cf*. peregra* | Germany | − | KR271471 | Locke et al. (2015) |
| *Diplostomum mergi* | *Diplostomum* sp. Clade Q | C | *Radix auricularia* | Germany | JQ665458 | − | Behrmann-Godel (2013) |
| Outgroup |  |  |  |  |  |  |  |
| *Tylodelphys clavata* | − | M | *Coregonus lavaretus* | Germany | JQ665459 | − | Behrmann-Godel (2013) |
| *Tylodelphys clavata* | − | M | *Perca fluviatilis* | Germany | − | JX986909 | Georgieva et al. (2013) |

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