**Supplementary Table 1:** Source of nicotinamide dehydrogenase subunit 1 (*nad*1) and cytochrome oxidase subunit 1 (*cox*1) sequences to be used for phylogenetic/genetic distance analysis of *Fasciola jacksoni* collected from elephants in Sri Lanka and other trematodes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Family/Species** | **Country** | **Isolates/****Strains** | **GenBank no.** | **Reference** |
| **FASCIOLIDAE** |  |  |  |  |
| *Fasciola jacksoni* | Sri Lanka | Maduruoya(Adult)b | KX787886 | This study |
|  | Sri Lanka | Maduruoya(Eggs) | KX787886 | This study |
|  | Sri Lanka | Minneriya(Adult) | === | This study |
|  | Sri Lanka | Minneriya(Eggs) | === | This study |
|  | Sri Lanka | Wasgamuwa(Adult) | === | This study |
|  | Sri Lanka | Wasgamuwa(Adult) | === | This study |
| *Fasciola hepatica* | Australia | Geelongb | AF216697 | Le et al., 2001a |
|  | n/a |  byJP (submitted) | AP017707 | GenBank |
| *Fasciola gigantica* | China | Guangxib | KF543342 | Liu et al., 2014a |
|  | Vietnam | Thua Thien-Hue | MF287790; MF287791 | This study |
| *Fasciola sp* (intermediate form) | China | GHL-Heilongjiangb | KF543343 | Liu et al., 2014a |
| *Fasciolopsis buski* | China | Jiangxib | KX169163 | Ma et al., 2017 |
|  | Vietnam | Ha Tay | MF287793; MF287794 | This study |
|  | India | Meghalaya | KX5449331 |  |
| *Fascioloides magna* | Czek | Kokořínskob | KU060148 | Ma et al., 2016b |
|  | Hungary | Tisza | === | This study |
| **ECHINOSTOMATIDAE** |  |  |  |  |
| *Echinostoma caproni* | Egypt | SAMEAb (biosample) | AP017706 | GenBank |
| *Echinostoma paraensei* | Mexico | UNMb (sample) | KT008005 | GenBank |
| *Hypoderaeum conoideum*  | China | Hubeib | KM111525  | Yang et al., 2015a |
| **PARAMPHISTOMIDAE**  |  |  |  |  |
| *Calicophoron microbothrioides*  | China | Hunanb | KR337555  | GenBank |
| *Explanatum explanatum* | China | Hunanb | KT198989  | GenBank |
| *Orthocoelium streptocoelium* | China | Tianmenb | KM659177 | Zhao et al., 2016 |
| *Paramphistomum cervi* | China | Qinghaib | KF475773  | Yan et al., 2013 |
| *Paramphistomum leydeni* | China | Nimub (Tibet region) | KP341657 | Ma et al., 2015 |
| **OPISTHORCHIIDAE** |  |  |  |  |
| *Opisthorchis viverrini* | Laos | n/a | JF739555 | Cai et al., 2012 |
|  | Vietnam | Binh Dinh 1 | MF287778; MF287779 | This study |
|  | Thailand | Khon Kaen | MF287781; MF287782 | This study |
| *Opisthorchis felineus* | Russia | Ust-Tula (Novosibirsk) | EU921260 | Shekhovtsov et al., 2010 |
| *Clonorchis sinensis* | Vietnam | Nam Dinh | MF287784; MF287785 | This study |
|  | China | Guangdong | JF729303 | Cai et al., 2012 |
|  | South Korea | n/a | JF729304 | [Cai et al., 2012 |
|  | Russia | Amur -Khabarovsk | FJ381664 | Shekhovtsov et al., 2010 |
| *Metorchis orientalis* | China | Heilongjiang | KT239342 | Na et al., 2016 |
| **HETEROPHYIDAE** |  |  |  |  |
| *Haplorchis taichui* | Laos | n/a | KF214770 | Lee et al., 2013 |
|  | Vietnam | Quang Tri 3 | MF287787; MF287788 | This study |
| *Metagonimus yokogawai* | South Korea | n/a | KC330755 |  |
| **SCHISTOSOMATIDAE** |  |  |  |  |
| *Schistosoma haematobiumi*a | Mali | N10 Village | DQ157222 | Littlewood et al., 2006 |

aSequence used as the outgroup.

bSequences of the selected species of Echinostomatoidea used for pairwise genetic distance claculation (Table 5).