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**Patterns of *Clinostomum* spp. infection in fishes and amphibians: integration of field, genomic, and experimental approaches**

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Supplementary STable 1. This table is a review of all published reports ofthe genus *Clinostomum*, excluding unidentified *Clinostomum* species, (i.e. no records of *Clinostomum* spp. or sp. were included) definitive hosts sorted by group (avian, mammal), the species of *Clinostomum* when identified, the locality of host by country and continent, and source of record. Common and scientific names of hosts were validated using <https://www.itis.gov/>. Reptile records not included. The parasite species identification should be viewed with caution as the reliability of species level identification has yet to be validated.

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| --- | --- | --- | --- | --- | --- | --- |
| **Host** | **Scientific name** | **Common name** | **Parasite** | **Country** | **Continent** | **Reference** |
|  Avian | *Haliaeetus leucocephalus* | bald eagle  | *Clinostomum complanatum* | United States of America | North America | (Kocan & Locke, 1974) |
| Avian | *Ardea cocoi* | cocoi heron | *Clinostomum dimorphum* | Brazil | South America | (Braun, 1899) |
| Avian | *Anhinga novaehollandiae* | Australasian darter | *Clinostomum australiense* | New South Wales | Australia | (Johnston, 1916) |
| Avian | *Anhinga rufa* | African darter  | *Clinostomum phalacrocoracis* | Israel | Asia | (Caffara *et al.*, 2014) |
| Avian | *Anhinga rufa* | African darter  | *Clinostomum complanatum* | South Africa | Africa | (Olivier *et al.*, 2009) |
| Avian | *Anhinga rufa* | African darter | *Clinostomum phalacrocoracis* | Ghana | Africa | (Ukoli, 1966) |
| Avian | *Ardea alba* | great egret | *Clinostomum heluans* | Brazil | South America | (Briosio-Aguilar *et al.*, 2018) |
| Avian | *Ardea alba* | great egret  | *Clinostomum complanatum* | Brazil | South America | (Dias *et al.*, 2003b) |
| Avian | *Ardea alba* | great egret  | *Clinostomum album* | United States of America | North America | (Rosser *et al.*, 2017) |
| Avian | *Ardea alba* | great egret  | *Clinostomum marginatum* | United States of America | North America | (Rosser *et al.*, 2017) |
| Avian | *Ardea alba* | great egret  | *Clinostomum complanatum* | Colombia | South America | (Sepúlveda *et al.*, 1999) |
| Avian | *Ardea alba* | great egret  | *Clinostomum complanatum* | United States of America | North America | (Sepúlveda *et al.*, 1999) |
| Avian | *Ardea alba* | great egret  | *Clinostomum complanatum* | Mexico | North America | (Sepúlveda *et al.*, 1999) |
| Avian | *Ardea alba* | great egret  | *Clinostomum marginatum* | Mexico | North America | (Sereno-Uribe *et al.*, 2013) |
| Avian | *Ardea alba* | great egret  | *Clinostomum tataxumui* | Mexico | North America | (Sereno-Uribe *et al.*, 2013) |
| Avian | *Ardea alba* | great egret | *Clinostomum caffarae* | Mexico | North America | (Sereno-Uribe *et al.*, 2018) |
| Avian | *Ardea alba* | great egret | *Clinostomum cichlidorum* | Mexico | North America | (Sereno-Uribe *et al.*, 2018) |
| Avian | *Ardea alba* | great egret  | *Clinostomum complanatum* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Ardea cinerea* | grey heron | *Clinostomum complanatum* | Germany | Europe | (Braun, 1899) |
| Avian | *Ardea cinerea* | grey heron | *Clinostomum heterostomum* | Italy | Europe | (Braun, 1899) |
| Avian | *Ardea cinerea* | grey heron  | *Clinostomum complanatum* | Italy | Europe | (Caffara *et al.*, 2011) |
| Avian | *Ardea cinerea* | grey heron  | *Clinostomum complanatum* | Tanzania | Africa | (Echi *et al.*, 2009) |
| Avian | *Ardea cinerea* | grey heron  | *Clinostomum cutaneum* | Kenya | Africa | (Gustinelli *et al.*, 2010) |
| Avian | *Ardea cinerea* | grey heron  | *Clinostomum cutaneum* | Kenya  | Africa | (Murugami *et al.*, 2018) |
| Avian | *Ardea cinerea* | grey heron  | *Clinostomum complanatum* | South Africa | Africa | (Olivier *et al.*, 2009) |
| Avian | *Ardea cinerea* | grey heron  | *Clinostomum complanatum* | Japan | Asia | (Peirce & Din, 1970) |
| Avian | *Ardea cinerea* | grey heron  | *Clinostomum complanatum* | Berlin | Europe | Rudolphi 1819 |
| Avian | *Ardea cinerea* | grey heron  | *Clinostomum kassimovi* | Iran | Asia | (Vaidova & Feizullaev, 1958) |
| Avian | *Ardea cocoi* | cocoi hero | *Clinostomum marginatum* | Brazil | South America | (Braun, 1899) |
| Avian | *Ardea cocoi* | cocoi heron | *Clinostomum complanatum* | Brazil | South America | (Dias *et al.*, 2003b) |
| Avian | *Ardea cocoi* | cocoi heron  | *Clinostomum marginatum* | Brazil | South America | Rudolphi 1819  |
| Avian | *Ardea goliath* | goliath heron | *Clinostomum tilapiae* | Congo | Africa | (Manter & Pritchard, 1960) |
| Avian | *Ardea herodias* | great blue heron  | *Clinostomum heluans* | Mexico | North America | (Bravo-Hollis, 1947) |
| Avian | *Ardea herodias* | great blue heron | *Clinostomum marginatum* | Canada | North America | (Caffara *et al.*, 2011) |
| Avian | *Ardea herodias* | great blue heron | *Clinostomum heluans* | United States of America | North America | (Gumbleton, 2018) |
| Avian | *Ardea herodias* | great blue heron  | *Clinostomum tataxumui* | Mexico | North America | (Sereno-Uribe *et al.*, 2013) |
| Avian | *Ardea novaehollandiae* | white-faced heron | *Clinostomum complanatum* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Ardea purpurea* | purple heron  | *Clinostomum foliiforme* | Brazil | South America | (Braun, 1899) |
| Avian | *Ardea purpurea* | purple heron | *Clinostomum heterostomum* | Italy | Europe | (Braun, 1899) |
| Avian | *Ardea purpurea* | purple heron  | *Clinostomum complanatum* | Italy | Europe | (Caffara *et al.*, 2011) |
| Avian | *Ardea purpurea* | purple heron  | *Clinostomum heterostomum* | Japan | Asia | (Leidy, 1856) |
| Avian | *Ardea purpurea* | purple heron  | *Clinostomum heterostomum* |  |  | Rudolphi 1809 |
| Avian | *Ardea sp.* | great herons | *Clinostomum lambitans* | Dominican Republic | North America | (Braun, 1899) |
| Avian | *Ardea sp.* | great herons | *Clinostomum marginatum* | Brazil | South America | (Braun, 1899) |
| Avian | *Ardeola grayii* | Indian pond heron | *Clinostomum giganticum* | India | Asia | (Agarwal, 1960) |
| Avian | *Ardeola grayii* | Indian pond heron  | *Clinostomum magadhatum* | Mexico | North America | (Singh & Prasad, 1979) |
| Avian | *Botaurus poiciloptilus* | Australasian bittern  | *Clinostomum hornum* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Botaurus poiciloptilus* | Australasian bittern  | *Clinostomum hornum* | Queensland | Australia | (Nicoll, 1914) |
| Avian | *Bubulcus ibis* | cattle egret | *Clinostomum giganticum*  | India | Asia | (Agarwal, 1960) |
| Avian | *Bubulcus ibis* | cattle egret | *Clinostomum marginatum* | United States of America | North America | (Caffara *et al.*, 2011) |
| Avian | *Bubulcus ibis* | cattle egret | *Clinostomum marginatum* | United States of America | North America | (Caffara *et al.*, 2011) |
| Avian | *Bubulcus ibis* | cattle egret  | *Clinostomum complanatum* | United States of America | North America | (Stuart *et al.*, 1972)  |
| Avian | *Bubulcus ibis* | cattle egret  | *Clinostomum tilapiae* | Republic of Korea | Asia | (Ukoli, 1966) |
| Avian | *Ciconia maguari* | maquari stork | *Clinostomum detruncatum* | Brazil | South America | (Braun, 1899) |
| Avian | *Cochlearius cochlearius* | boat-billed heron | *Clinostomum cichlidorum* | Mexico | North America | (Sereno-Uribe *et al.*, 2018) |
| Avian | *Egretta caerulea* | little blue heron  | *Clinostomum complanatum* | United States of America | North America | (Sepulveda *et al.*, 1996) |
| Avian | *Egretta caerulea* | little blue heron  | *Clinostomum heluans* | Brazil | South America | (Braun, 1899) |
| Avian | *Egretta garzetta* | little egret  | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Avian | *Egretta garzetta* | little egret  | *Clinostomum complanatum* | Italy | Europe | (Caffara *et al.*, 2011) |
| Avian | *Egretta garzetta* | little egret  | *Clinostomum complanatum* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Egretta intermedia* | plumed egret  | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Avian | *Egretta intermedia* | plumed egret  | *Clinostomum complanatum* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Egretta intermedia* | plumed egret  | *Clinostomum wilsoni* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Egretta novaehollandiae* | white-faced heron  | *Clinostomum complanatum* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Egretta thula* | snowy egret | *Clinostomum complanatum* | Brazil | South America | (Dias *et al.*, 2003b) |
| Avian | *Egretta thula* | snowy egret | *Clinostomum arquus* | Mexico | North America | (Sereno-Uribe *et al.*, 2018) |
| Avian | *Egretta thula* | snowy egret | *Clinostomum caffarae* | Mexico | North America | (Sereno-Uribe *et al.*, 2018) |
| Avian | *Gorsachius goisagi* | Japanese night heron  | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Avian | *Microcarbo niger* | little cormorant  | *Clinostomum awadhi* | Pakistan | Asia | (Abro *et al.*, 2016) |
| Avian | *Microcarbo niger* | little cormorant  | *Clinostomum complanatum* | Pakistan | Asia | (Monks *et al.*, 2005) |
| Avian | *Mycteria americana* | wood stork | *Clinostomum detruncatum* | Brazil | South America | (Braun, 1899) |
| Avian | *Mycteria americana* | wood stork | *Clinostomum marginatum* | Brazil | South America | (Braun, 1899) |
| Avian | *Mycteria americana* | wood stork  | *Clinostomum sorbens* | Brazil | South America | (Braun, 1899) |
| Avian | *Nycticorax caledonicus* | nankeen night heron  | *Clinostomum complanatum* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Nycticorax caledonicus* | nankeen night heron  | *Clinostomum hornum* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Nycticorax caledonicus* | nankeen night heron  | *Clinostomum hornum* | Queensland | Australia | (Nicoll, 1914) |
| Avian | *Nycticorax gardetti* |  | *Clinostomum heluans* | Brazil | South America | (Braun, 1899) |
| Avian | *Nycticorax griseus* |  | *Clinostomum heterostomum* | Italy | Europe | (Braun, 1899) |
| Avian | *Nycticorax nycticorax* | black-crowned night heron  | *Clinostomum complanatum* | Republic of Zimbabwe | Africa | (Echi *et al.*, 2009) |
| Avian | *Nycticorax nycticorax* | black-crowned night heron  | *Clinostomum complanatum* | South Africa | Africa | (Olivier *et al.*, 2009) |
| Avian | *Pelecanus conspicillatus* | Australian pelican  | *Clinostomum australiense* | Queensland | Australia | (Matthews & Cribb, 1998) |
| Avian | *Pelecanus erythrorhynchos* | American white pelicans | *Clinostomum complanatum* | United States of America | North America | (Kinsella, 1972) |
| Avian | *Pelecanus erythrorhynchos* | American white pelican  | *Clinostomum attenuatum* | United States of America | North America | (Uzmann & Douglas, 1966) |
| Avian | *Pelecanus onocrotalus* | great white pelican  | *Clinostomum phalacrocoracis* | Uganda | Africa | (Peirce & Din, 1970) |
| Avian | *Pelecanus onocrotalus* | great white pelican  | *Clinostomum phalacrocoracis* | Mozambique | Africa | (Tendeiro *et al.*, 1974) |
| Avian | *Pelecanus rufescens* | pink-backed pelican  | *Clinostomum phalacrocoracis* | Uganda | Africa | (Peirce & Din, 1970) |
| Avian | *Phalacrocorax africanus* | reed cormorant  | *Clinostomum complanatum* | South Africa | Africa | (Olivier *et al.*, 2009) |
| Avian | *Phalacrocorax auritus floridanus* | double-crested cormorant | *Clinostomum attenuatum* | United States of America | North America | (Hutton & Sogandares-Bernal, 1960) |
| Avian | *Phalacrocorax brasilianus* | neotropic cormorant | *Clinostomum complanatum* | Brazil | South America | (Dias *et al.*, 2003b) |
| Avian | *Phalacrocorax brasilianus* | neotropic cormorant  | *Clinostomum intermedialis* | Venezuela | South America | (Lamont, 1920) |
| Avian | *Phalacrocorax carbo* | great cormorant | *Clinostomum complanatum* | Egypt | Africa | (El-Dakhly *et al.*, 2018) |
| Avian | *Phalacrocorax levaillanti* |   | *Clinostomum phalacrocoracis* | Angola | Africa | (Dubois, 1933) |
| Avian | *Phalacrocorax penicillatus* | Brandt's cormorant  | *Clinostomum intermedialis* | Mexico | North America | (Bravo-Hollis, 1947) |
| Avian | *Phalacrocorax vigua* |  | *Clinostomum intermedialis* | Venezuela | South America | (Lamont, 1920) |
| Avian | *Phalacrocorax lucidus* | white-breasted Cormorant | *Clinostomum complanatum*  | South Africa | Africa | (Olivier *et al.*, 2009) |
| Avian | *Platalea ajaja* | roseate spoonbill  | *Clinostomum complanatum* | United States of America | North America | (Sepulveda *et al.*, 1996) |
| Avian | *Rynchops niger* | black skimmer  | *Clinostomum attenuatum* | United States of America | North America | (Kinsella, 1972) |
| Avian | *Tigrisoma lineatum* | rufescent tiger heron  | *Clinostomum marginatum* | Brazil | South America | (Arruda *et al.*, 2001) |
| Avian | *Tigrisoma lineatum* | rufescent tiger heron  | *Clinostomum marginatum* | Argentina | South America | (Lunasch & Drago, 2009) |
| Avian | *Tigrisoma mexicanum* | bare-throated tiger heron  | *Clinostomum tataxumui* | Mexico | North America | (Sereno-Uribe *et al.*, 2013) |
| Avian | *Tigrisoma mexicanum* | bare-throated tiger heron | *Clinostomum cichlidorum* | Mexico | North America | (Sereno-Uribe *et al.*, 2018) |
| Avian  | *Ardea cinerea* | grey heron  | *Clinostomum complanatum* | Venezuela | South America | (Lamont, 1920) |
| Avian  | *Phalacrocorax auritus* | double-crested cormorant | *Clinostomum poteae* | United States of America | North America | (Rosser *et al.*, 2018) |
| Mammal | *Felis catus* | domestic cat | *Clinostomum kalappahi* | India | Asia | (Bhalerao, 1942) |
| Mammal | *Felis catus* | domestic cat | *Clinostomum falsatum* | South Africa | Africa | (Ortlepp, 1963) |
| Mammal | *Felis catus* | domestic cat | *Clinostomum abdoni* | Philippines | Asia | (Tubangui & Garcia, 1939) |
| Mammal | *Homo sapiens* | human | *Clinostomum complanatum* | Korea | Asia | (Chung *et al.*, 1995) |
| Mammal | *Homo sapiens* | human | *Clinostomum complanatum* | Japan | Asia | (Hara *et al.*, 2014) |
| Mammal | *Homo sapiens* | human | *Clinostomum complanatum* | Korea | Asia | (Kitagawa *et al.*, 2003) |
| Mammal | *Homo sapiens* | human | *Clinostomum complanatum* | Korea | Asia | (Park *et al.*, 2009) |
| Mammal | *Homo sapiens* | human | *Clinostomum complanatum* | Korea | Asia | (Song *et al.*, 2018) |
| Mammal | *Homo sapiens* | human | *Clinostomum complanatum* | Israel | Asia | (Witenberg, 1944) |
| Mammal | *Homo sapiens* | human | *Clinostomum complanatum* | Japan | Asia | (Yamashita, 1938) |
| Mammal | *Homo sapiens* | human | *Clinostomum complanatum* | Japan | Asia | (Yoshirmura *et al.*, 1991) |

Supplementary STable 2: This table is a review of all reports within the genus *Clinostomum* first intermediate host, (snail) sorted by scientific name of host followed by common name when available, the species of *Clinostomum* when identified, excluding unidentified *Clinostomum* species, (i.e. no records of *Clinostomum* spp. or sp. were included), the locality by country and continent, and reference of report. The parasite species identification should be viewed with caution as the reliability of species level identification has yet to be validated.

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| **Host** | **Scientific name** | **Common name** | **Parasite** | **County** | **Continent** | **Reference** |
| Snail | *Biomphalaria glabrata* |  | *Clinostomum golvani* | Guadeloupe | South America | (Nassi & Bayssade-Dufour, 1980) |
| Snail | *Biomphalaria glabrata* |  | *Cercaria ocellifera* | Brazil | South America | (Pinto *et al.*, 2015) |
| Snail | *Biomphalaria peregrine* |  | *Clinostomum complanatum* | Brazil | South America | (Dias *et al.*, 2003b) |
| Snail | *Biomphalaria peregrine* |  | *Clinostomum complanatum* | Korea | Asia | (Dias *et al.*, 2003b) |
| Snail | *Biomphalaria peregrine* |  | *Clinostomum complanatum* | Brazil | South America | (Dias *et al.*, 2003a) |
| Snail | *Biomphalaria straminea* |  | *Cercaria ocellifera* | Brazil | South America | (Pinto *et al.*, 2015) |
| Snail | *Biomphalaria tenagophila* |  | *Cercaria ocellifera* | Brazil | South America | (Pinto *et al.*, 2015) |
| Snail | *Bulinus globosus* |  | *Clinostomum heterostomum* | Nigeria | Africa | (Dönges, 1974) |
| Snail | *Bulinus truncates* |  | *Clinostomum tilapiae* | Israel | Asia | (Dzikowski *et al.*, 2004) |
| Snail | *Galba pervia* |  | *Clinostomum complanatum* | China | Asia | (Li *et al.*, 2018) |
| Snail | *Helisoma campanulatum smithii* |  | *Clinostomum marginatum* | United States of America | North America | (Cort *et al.*, 1950) |
| Snail | *Helisoma trivolvis* | rams horn  | *Clinostomum album* | United States of America | North America | (Rosser *et al.*, 2018) |
| Snail | *Helisoma trivolvis* | rams horn | *Clinostomum marginatum* | United States of America | North America | (Cort *et al.*, 1950) |
| Snail | *Helisoma trivolvis* | rams horn | *Clinostomum marginatum* | United States of America | North America | (McCaffrey & Johnson, 2017) |
| Snail | *Helisoma trivolvis* | rams horn | *Clinostomum marginatum* | United States of America | North America | (Lambden & Johnson, 2013) |
| Snail | *Helisoma trivolvis* | rams horn  | *Clinostomum complanatum* | United States of America | North America | (Avery *et al.*, 2002) |
| Snail | *Helisoma trivolvis* | rams horn  | *Clinostomum marginatum* | United States of America | North America | (Mitchell *et al.*, 2011) |
| Snail | *Helisoma trivolvis* | rams horn | *Clinostomum marginatum* | United States of America | North America | (Edney, 1950) |
| Snail | *Helisoma trivolvis* | rams horn | *Clinostomum marginatum* | United States of America | *North America* | (Klaas, 1963) |
| Snail | *Lymnaea gedrosian* |  | *Clinostomum complanatum* | Iran | Asia | (Sharif *et al.*, 2010) |
| Snail | *Lymnaea gedrosian* |  | *Clinostomum complanatum* | Iran | Asia | (Shamsi *et al.*, 2013) |
| Snail | *Lymnaeidae* sp. |  | *Clinostomum schizothoraxi* | Kashmir | Asia | (Shamsi *et al.*, 2013) |
| Snail | *Planorbidae* sp. |  | *Clinostomum marginatum* | United States of America | North America | (Harper & Farag, 2017) |
| Snail | *Radix auricularia coreana* |  | *Clinostomum complanatum* | Korea | Asia | (Dias *et al.*, 2003a) |
| Snail | *Radix auricularia swinhoei* |  | *Clinostomum complanatum* | Taiwan | Asia | (Lo *et al.*, 1981) |
| Snail | *Radix swinhoei* |  | *Clinostomum complanatum* | China | Asia | (Li *et al.*, 2018) |
| Snail | *Radix swinhoei* |  | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Snail | *Sinotaia quadrata* |  | *Clinostomum complanatum* | Taiwan | Asia | (Lo *et al.*, 1981) |
| Snail | *Thiara tuberculata* |  | *Clinostomum complanatum* | Taiwan | Asia | (Lo *et al.*, 1981) |
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Supplementary STable 3: This table is a review of all reports within the genus *Clinostomum* second intermediate hosts (amphibian, and/or fish), the species of *Clinostomum* when identified including unidentified species of *Clinostomum* (i.e. *Clinostomum* spp. and sp. were included), the locality including county and continent, and the source of the record. For amphibians this table has been adapted and updated from McAllister *et al.* (2010) and Caffara *et al.* (2014). Validation of scientific name and common names were confirmed using <https://amphibiaweb.org/> and <http://www.fishbase.org/search.php>. Parasite species identification should be viewed with caution as the reliability of species level identification has yet to be validated.

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| **Host**  | **Scientific name** | **Common Name** | **Parasite** | **Country** | **Continent** | **Reference** |
| Amphibian | *Acris blanchardi* | Blanchard's cricket frog | *Clinostomum* sp. | United States of America | North America | (Muzzall & Sonntag, 2012) |
| Amphibian | *Ambystoma americanus* | American toad | *Clinostomum marginatum* | United States of America | North America | (McAllister *et al.*, 2015) |
| Amphibian | *Ambystoma americanus* | American toad | *Clinostomum* sp. | United States of America | North America | (Conn *et al.*, 2002) |
| Amphibian | *Ambystoma americanus* | American toad | *Clinostomum marginatum* | United States of America | North America | (McAllister *et al.*, 2015) |
| Amphibian | *Ambystoma cognatus* | great plains toad | *Clinostomum attenuatum* | United States of America | North America | (Gray *et al.*, 2007) |
| Amphibian | *Ambystoma jeffersonianum* | Jefferson salamander | *Clinostomum marginatum* | United States of America | North America | (McAllister *et al.*, 2010) |
| Amphibian | *Ambystoma laterale* | blue-spotted salamander | *Clinostomum* sp. | United States of America | North America | (Ball, 2000) |
| Amphibian | *Ambystoma macrodactylum* | long-toed salamander | *Clinostomum* sp. | United States of America | North America | (Sessions & Ruth, 1990) |
| Amphibian | *Ambystoma maculatum* | spotted salamander | *Clinostomum attenuatum* | United States of America | North America | (McAllister *et al.*, 2010) |
| Amphibian | *Ambystoma mavortium* | Western tiger salamander | *Clinostomum attenuatum* | United States of America | North America | (Gray *et al.*, 2007) |
| Amphibian | *Ambystoma mavortium* | Western tiger salamander | *Clinostomum attenuatum* | United States of America | North America | (Miller *et al.*, 2004) |
| Amphibian | *Ambystoma texanum* | small-mouthed salamander | *Clinostomum marginatum* | United States of America | North America | (Graziano, 2010) |
| Amphibian | *Ambystoma texanum* | small-mouthed salamander | *Clinostomum marginatum* | United States of America | North America | (McAllister *et al.*, 2010) |
| Amphibian | *Ambystoma tigrinum* | tiger salamander | *Clinostomum* sp. | United States of America | North America | (Green *et al.*, 2002) |
| Amphibian | *Ambystoma tigrinum* | tiger salamander | *Clinostomum* sp. | United States of America | North America | (Perpiñán *et al.*, 2010) |
| Amphibian | *Amphiuma tridactylum* | three-toed  | *Clinostomum* sp. | United States of America | North America | (Bennett & Humes, 1938) |
| Amphibian | *Anaxyrus americanus* | American toad | *Clinostomum marginatum* | United States of America | North America | (Cross *et al.*, 2000) |
| Amphibian | *Anaxyrus boreas* | western toad | *Clinostomum marginatum* | United States of America | North America | This study |
| Amphibian | *Anaxyrus cognatus* | great plains toad | *Clinostomum attenuatum* | United States of America | North America | (Miller *et al.*, 2004) |
| Amphibian | *Dendropsophus microcephalus* | yellow treefrog | *Clinostomum complanatum* | Mexico | North America | (Goldberg *et al.*, 2002) |
| Amphibian | *Eurycea lucifuga* | cave salamander | *Clinostomum complanatum* | United States of America | North America | (McAllister *et al.*, 2007) |
| Amphibian | *Eurycea neotenes* | Texas salamander | *Clinostomum complanatum* | United States of America | North America | (McAllister, 1990) |
| Amphibian | *Eurycea spelaea* | grotto salamander | *Clinostomum marginatum* | United States of America | North America | (Bonett *et al.*, 2011) |
| Amphibian | *Eurycea tynerensis* | Oklahoma salamander | *Clinostomum marginatum* | United States of America | North America | (Bonett *et al.*, 2011) |
| Amphibian | *Hyla cinerea* | green treefrog | *Clinostomum attenuatum* | United States of America | North America | (Creel *et al.*, 2000) |
| Amphibian | *Hyla versicolor* | green treefrog | *Clinostomum marginatum* | United States of America | North America | (Hausfater *et al.*, 1990) |
| Amphibian | *Hyla versicolor* | green treefrog | *Clinostomum* sp. | United States of America | North America | (Muzzall & Kuczynski, 2017) |
| Amphibian | *Hylarana albolabris* |  | *Clinostomum hylaranae* | Ghana | Africa | (Fischthal & Thomas, 1968) |
| Amphibian | *Leptodactylus melanonotus* | Rana terrestre mexicana | *Clinostomum* sp. | Mexico | North America | (Mata-López *et al.*, 2013) |
| Amphibian | *Lissotriton vulgaris* | smooth newt | *Clinostomum complanatum* | Italy | Europe | (Caffara *et al.*, 2014) |
| Amphibian | *Lithobates berlandieri* | Rio Grande frog | *Clinostomum* sp. | Mexico | North America | (León-Régagnon *et al.*, 2005) |
| Amphibian | *Lithobates catesbeianus* | American bullfrog | *Clinostomum marginatum* | United States of America | North America | This study |
| Amphibian | *Lithobates catesbeianus* | American bullfrog | *Clinostomum attenuatum* | Canada | North America | (Cort, 1913) |
| Amphibian | *Lithobates catesbeianus* | American bullfrog | *Clinostomum* sp. | United States of America | North America | (Lemke *et al.*, 2008) |
| Amphibian | *Lithobates catesbeianus* | American bullfrog | *Clinostomum* sp. | United States of America | North America | (Muzzall, 1991) |
| Amphibian | *Lithobates catesbeianus* | American bullfrog | *Clinostomum* sp. | United States of America | North America | (Goldberg *et al.*, 1998) |
| Amphibian | *Lithobates catesbeianus* | American bullfrog | *Clinostomum attenuatum* | United States of America | North America | (Jinks & Johnson, 1970) |
| Amphibian | *Lithobates chiricahuensis* | Chiricahua leapard frog | *Clinostomum* sp. | United States of America | North America | (Goldberg *et al.*, 1998) |
| Amphibian | *Lithobates clamitans clamitans* | green frog | *Clinostomum* sp. | United States of America | North America | (Conn *et al.*, 2002) |
| Amphibian | *Lithobates clamitans clamitans* | green frog | *Clinostomum attenuatum* | United States of America | North America | (Mihaljevic, 2010) |
| Amphibian | *Lithobates clamitans clamitans* | green frog | *Clinostomum* sp. | United States of America | North America | (Muzzall *et al.*, 2001) |
| Amphibian | *Lithobates clamitans clamitans* | green frog | *Clinostomum* sp. | United States of America | North America | (Yoder *et al.*, 2001) |
| Amphibian | *Lithobates clamitans clamitans* | green frog | *Clinostomum attenuatum* | United States of America | North America | (Najarian, 1955) |
| Amphibian | *Lithobates forreri* | Forrer'e grass frog | *Clinostomum attenuatum* | Mexico | North America | (Goldberg & Bursey, 2002) |
| Amphibian | *Lithobates grylio* | pig frog | *Clinostomum marginatum* | United States of America | North America | (Manter, 1938) |
| Amphibian | *Lithobates grylio* | pig frog | *Clinostomum complanatum* | United States of America | North America | (Walton, 1948) |
| Amphibian | *Lithobates palustris* | pickerel frog | *Clinostomum complanatum* | United States of America | North America | (Walton, 1949a) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum marginatum* | United States of America | North America | (Osborn, 1912) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum* sp. | United States of America | North America | (Kapfter, 1999) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum* sp. | Canada | North America | (King *et al.*, 2008) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum* sp. | Canada | North America | (King *et al.*, 2008) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum* sp. | Canada | North America | (King *et al.*, 2008) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum attenuatum* | United States of America | North America | (Ulmer, 1970) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum* sp. | Mexico | North America | (Cabrera-Guzmán *et al.*, 2010) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum* sp. | United States of America | North America | (Conn *et al.*, 2002) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum attenuatum* | United States of America | North America | (Fortner, 1923) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum marginatum* | United States of America | North America | (Fried & Foley, 1970) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum* sp. | United States of America | North America | (Gilliland III & Muzzall, 2002) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum attenuatum* | United States of America | North America | (Odlaug, 1955) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum attenuatum* | United States of America | North America | (Watermolen, 2017) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum attenuatum* | United States of America | North America | (Cort, 1913) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum* sp. | United States of America | North America | (Gustafson *et al.*, 2013) |
| Amphibian | *Lithobates pipiens* | northern leopard frog | *Clinostomum complanatum* | United States of America | North America | (Walton, 1949a) |
| Amphibian | *Lithobates sphenocephalus* | southern leopard frog | *Clinostomum complanatum* | United States of America | North America | (Walton, 1949b) |
| Amphibian | *Lithobates sphenocephalus* | southern leopard frog | *Clinostomum attenuatum* | United States of America | North America | (Trowbridge & Hefley, 1934) |
| Amphibian | *Notophthalmus viridescens* | eastern newt | *Clinostomum complanatum* | United States of America | North America | (McAllister, 1990) |
| Amphibian | *Notophthalmus viridescens* | eastern newt | *Clinostomum* sp. | United States of America | North America | (Muzzall, 1991) |
| Amphibian | *Notophthalmus viridescens* | eastern newt | *Clinostomum* sp. | United States of America | North America | (Raffel *et al.*, 2009) |
| Amphibian | *Pseudacris regilla* | Pacific chorus treefrog | *Clinostomum marginatum* | United States of America | North America | This study |
| Amphibian | *Pseudacris regilla* | Pacific chorus treefrog | *Clinostomum* sp. | United States of America | North America | (Goldberg & Bursey, 2002) |
| Amphibian | *Pseudacris regilla* | Pacific chorus treefrog | *Clinostomum* sp. | Mexico | North America | (Goldberg *et al.*, 2002) |
| Amphibian | *Pseudacris regilla* | Pacific chorus treefrog | *Clinostomum attenuatum* | United States of America | North America | (Johnson & Hoverman, 2014) |
| Amphibian | *Rana aurora* | red-legged frog | *Clinostomum* sp. | United States of America | North America | (Ingles, 1936) |
| Amphibian | *Rana boylii* | foothill yellow-legged frog | *Clinostomum* sp. | United States of America | North America | (Ingles, 1936) |
| Amphibian | *Rana magna* | large golden-backed frog | *Clinostomum pseudoheterostomum* | Philippine | Asia | (Tubangui, 1933) |
| Amphibian | *Rhinella marina* | cane toad | *Clinostomum attenuatum* | Mexico | North America | (Etges, 1991) |
| Amphibian | *Rhinella marina* | cane toad | *Clinostomum* sp. | British Island | North America | (Linzey *et al.*, 1998) |
| Amphibian | *Siren lacertina* | greater sirens | *Clinostomum marginatum* | United States of America | North America | (Manter, 1938) |
| Amphibian | *Spea multiplicata* | Mexican spadefoot | *Clinostomum attenuatum* | United States of America | North America | (Gray *et al.*, 2007) |
| Amphibian | *Spea multiplicata* | Mexican spadefoot | *Clinostomum attenuatum* | United States of America | North America | (Miller *et al.*, 2004) |
| Amphibian | *Taricha granulosa* | rough-skinned newt | *Clinostomum* sp. | United States of America | North America | (Johnson *et al.*, 2018) |
| Amphibian | *Taricha granulosa* | rough-skinned newt | *Clinostomum marginatum* | United States of America | North America | This study |
| Amphibian | *Taricha torosa* | California newt | *Clinostomum* sp. | United States of America | North America | (Johnson *et al.*, 2018) |
| Amphibian | *Taricha torosa* | California newt | *Clinostomum marginatum* | United States of America | North America | This study |
| Amphibian | *Triturus carnifex* | Italian crested newt | *Clinostomum complanatum* | Italy | Europe | (Caffara *et al.*, 2014) |
| Amphibian | *Xenopus laevis* | African clawed frog | *Clinostomum* sp. | Chile | South America | (Castro Tavernari *et al.*, 2009) |
| Amphibian | *Xenopus laevis* | African clawed frog | *Clinostomum* sp. | United States of America | North America | (Kuperman *et al.*, 2004) |
| Fish | *Acheilognathus koreensis* | Korean oily bitterling | *Clinostomum* sp. | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Acheilognathus rhombea* | kanehira bitterling | *Clinostomum complanatum* | Korea | Asia | (Chung *et al.*, 1995) |
| Fish | *Acrossocheilus paradoxus* |  | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Alosa sapidissima* | American shad | *Clinostomum marginatum* | United States of America | North America | (Hollis & Coker, 1948)  |
| Fish | *Amatitlania nigrofasciata* | convict cichlid | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Amatitlania* sp. |  | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Amphilopus* sp. |  | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Anguilla mossambica* | African longfin eel | *Clinostomum* sp. | South Africa | Africa | (Madanire-Moyo *et al.*, 2012) |
| Fish | *Aphanius dispar* | Arabian pupfish | *Clinostomum complanatum* | Iran | Asia | (Gholami *et al.*, 2011) |
| Fish | *Aphanius dispar* | Arabian pupfish | *Clinostomum complanatum* | Japan | Asia | (Kalantan & Arfin, 1987) |
| Fish | *Archocentrus siquia* | cichlid  | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Ariopsis guatemalensis* | blue sea catfish | *Clinostomum complanatum* | Mexico | North America | (Vidal-Martínez & Kennedy, 2000) |
| Fish | *Aristichthys nobilis* | bighead carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Astronotus ocellatus* | oscar | *Clinostomum marginatum* | Brazil | South America | (Tavares-Dias & Neves, 2017) |
| Fish | *Atractosteus tropicus* | tropical gar | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Auchenipterus osteomystax* | driftwood catfish | *Clinostomum* sp. | Brazil | South America | (Tavares-Dias & Neves, 2017) |
| Fish | *Auchenoglanis* sp. | African scraping feeder | *Clinostomum* sp. | Central Africa | Africa | (Manter & Pritchard, 1969) |
| Fish | *Australoheros* sp. | African scraping feeder | *Clinostomum heluans* | Brazil | South America | (Briosio-Aguilar *et al.*, 2018) |
| Fish | *Barbus barbus* | barbel | *Clinostomum complanatum* | Italy | Europe | (Caffara *et al.*, 2011) |
| Fish | *Barbus canis* | jordan himri | *Clinostomum complanatum* | Isreal | Asia | (Caffara *et al.*, 2014) |
| Fish | *Barbus trimaculatus* | threespot barb | *Clinostomum complanatum* | South Africa | Africa | (Olivier *et al.*, 2009) |
| Fish | *Barbus unitaeniatus* | slender barb | *Clinostomum complanatum* | South Africa | Africa | (Olivier *et al.*, 2009) |
| Fish | *Beta imbellis* | vrescent betta | *Clinostomum* sp. | Thailand | Asia | (Senapin *et al.*, 2014) |
| Fish | *Bramocharax caballeroi* | Catemaco characin | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Campostoma ornatum* | Mexicn stonoller | *Clinostomum complanatum* | Mexico | North America | (Aguilar-Aguilar *et al.*, 2010) |
| Fish | *Capoeta capoeta* | seven khramulya | *Clinostomum complanatum* | Iran | Asia | (Malek & Mobedi, 2001) |
| Fish | *Capoeta damascina* | mesopotamian barb | *Clinostomum complanatum* | Isreal | Asia | (Caffara *et al.*, 2014) |
| Fish | *Carassius auratus* | goldfish | *Clinostomum complanatum* | Korea | Asia | (Chung *et al.*, 1995) |
| Fish | *Carassius auratus* | goldfish | *Clinostomum complanatum* | Korea | Asia | (Chung *et al.*, 1995) |
| Fish | *Carassius auratus* | goldfish | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Carassius carassius* | crucian carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Carassius carassius* | crucian carp | *Clinostomum schizothoraxi* | India | Asia | (Shah *et al.*, 2013) |
| Fish | *Carassius cuvieri* | Japanese white crucian carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Carassius cuvieri* | Japanese white crucian carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Carassius gibelio langsdorfi* | Prusian carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Carassius* sp. | carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi & Shibahara, 1994) |
| Fish | *Catostomus commersoni* | white sucker | *Clinostomum marginatum* | United States of America | North America | (White, 1974) |
| Fish | *Chaenobryttus gulosus* | warmout | *Clinostomum marginatum* | United States of America | North America | (Becker & Houghton, 1969) |
| Fish | *Channa punctatus* | spotted snakehead | *Clinostomum complanatum* | India | Asia | (Shareef & Abidi, 2012) |
| Fish | *Characodon audax* | bold audax | *Clinostomum complanatum* | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Characodon lateralis* | rainbow characodon | *Clinostomum complanatum* | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Chiloglanic pretoriae* | shortspine suckermouth | *Clinostomum* sp. | South Africa | Africa | (Smit & Luus-Powell, 2012) |
| Fish | *Chromidotilapia guntheri* | guenther's mouthbrooder | *Clinostomum tilapiae* | Nigeria | Africa | (Okaka & Akhigbe, 1999) |
| Fish | *Chryichthys nigrodigitatus* | bagrid catfish | *Clinostomum* sp. | Central Africa | Africa | (Manter & Pritchard, 1969) |
| Fish | *Chryichthys walkeri* |  | *Clinostomum* sp. | Central Africa | Africa | (Manter & Pritchard, 1969) |
| Fish | *Cichasoma urophthalmus* | Mexican mojarra | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Cichlasoma fenestratum* | cichlid  | *Clinostomum complanatum* | Mexico | North America | (Jiménez García, 1993) |
| Fish | *Cichlasoma gadovii* | blackstripe cichlid | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Cichlasoma paranaense* | cichlid  | *Clinostomum complanatum* | Brazil | South America | (Silva-Souza & Ludwig, 2005) |
| Fish | *Cichlasoma trimaculatum* | three spot cichlid | *Clinostomum complanatum* | Mexico | North America | (Pérez Ponce de León *et al.*, 2007) |
| Fish | *Cichlasoma trimaculatum* | three spot cichlid | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Cichlasoma trimaculatum* | three spot cichlid | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Cichlasoma urophthalmus* | Mexican mojarra | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Cichlasoma urophthalmus* | Mexican mojarra | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Cichlasoma urophthalmus* | Mexican mojarra | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Cichlasoma urophthalmus* | Mexican mojarra | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Cirrhinus molitorella* | mud carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Citharinus citharius* | moon fish | *Clinostomum* sp. | Nigeria | Africa | (Okaka & Akhigbe, 1999) |
| Fish | *Clarias gariepinus* | North African catfish | *Clinostomum complanatum* | Zimbabwe | Africa | (Barson *et al.*, 2008) |
| Fish | *Clarias gariepinus* | North African catfish | *Clinostomum* sp. | Botswana | Africa | (van Rensburg *et al.*, 2013) |
| Fish | *Clarias gariepinus* | North African catfish | *Clinostomum* sp. | South Africa | Africa | (Madanire-Moyo *et al.*, 2012) |
| Fish | *Clarias gariepinus* | North African catfish | *Clinostomum* sp. | Ethiopia | Africa | (Yimer, 2000) |
| Fish | *Cobitis anguillicaudatus* | pond loach | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Codoma ornata* | ornate shiner | *Clinostomum complanatum* | Mexico | North America | (Aguilar-Aguilar *et al.*, 2010) |
| Fish | *Crossostoma lacustre* | tasseled-mouth loach | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Ctenopharyngodon idella* | grass carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Ctenopoma kinsleyae* | tailspot ctenopoma | *Clinostomum* sp. | Nigeria | Africa | (Okaka & Akhigbe, 1999) |
| Fish | *Cyprinodon meeki* | mezquital pupfish | *Clinostomum complanatum* | Mexico | North America | (Martínez-Aquino & Aguilar-Aguilar, 2008) |
| Fish | *Cyprinus carpio* | common carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Cyprinus carpio* | common carp | *Clinostomum complanatum* | United States of America | North America | (Becker & Houghton, 1969) |
| Fish | *Cyprinus carpio* | common carp | *Clinostomum tilapiae* | Mozambique | Africa | (Boane *et al.*, 2008) |
| Fish | *Cyprinus carpio* | common carp | *Clinostomum complanatum* | Isreal | Asia | (Caffara *et al.*, 2014) |
| Fish | *Cyprinus carpio* | common carp | *Clinostomum complanatum* | Italy | Europe | (Vilizzi *et al.*, 2015) |
| Fish | *Cyprinus carpio* | common carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Cyrpinus carpio* | common carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Distoechdon tumirostris* | common carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Dormitator latifrons* | Pacific fat sleeper | *Clinostomum complanatum* | Mexico | North America | (Garrido-Olvera *et al.*, 2004) |
| Fish | *Dormitator latifrons* | Pacific fat sleeper | *Clinostomum complanatum* | Mexico | North America | (Montoya-Mendoza *et al.*, 2004) |
| Fish | *Dormitator latifrons* | Pacific fat sleeper | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Dormitator latifrons* | Pacific fat sleeper | *Clinostomum tataxumui* | Mexico | North America | (Sereno-Uribe *et al.*, 2018) |
| Fish | *Dormitator maculatus* | fat sleeper | *Clinostomum complanatum* | Mexico | North America | (Pérez Ponce de León *et al.*, 2007) |
| Fish | *Dormitator maculatus* | fat sleeper | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Dormitator maculatus* | fat sleeper | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Eleotris picta* | spotted sleeper | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Eleotris picta* | spotted sleeper | *Clinostomum complanatum* | Mexico | North America | (Violante-Gonzalez & Aguirre-Macedo, 2007) |
| Fish | *Epiplatys* sp. |  | *Clinostomum* sp. | Sierra Leone | Africa | (Williams & Chaytor, 1966) |
| Fish | *Erythoroculter ilishaeformis* | predatory carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Esox lucius* | Northern pike | *Clinostomum marginatum* | United States of America | North America | (Leidy, 1856) |
| Fish | *Etheostoma nigrum* | johnny darter | *Clinostomum detruncatum* | Canada | North America | (Bonett *et al.*, 2011) |
| Fish | *Eupomoti vulgaris* | sunfish | *Clinostomum marginatum* | United States of America | North America | (Leidy, 1856) |
| Fish | *Gambusia affinis* | mosquito fish | *Clinostomum marginatum* | United States of America | North America | This study |
| Fish | *Gambusia affinis* | mosquito fish | *Clinostomum* sp.  | United States of America | North America | (Calhoun *et al.*, 2018) |
| Fish | *Geophagus brasiliensis* | pearl cichlid | *Clinostomum* sp. | Brazil | South America | (Pozza *et al.*, 2018) |
| Fish | *Gnathonemus macrolepidotus* | bulldog | *Clinostomum van der horsti* | South Africa | Africa | (Ortlepp, 1935) |
| Fish | *Gobiomorus dormitor* | bigmouth sleeper | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Gobiomorus maculatus* | Pacific sleeper | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Gobiomorus maculatus* | Pacific sleeper | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Gobiomorus maculatus* | Pacific sleeper | *Clinostomum complanatum* | Mexico | North America | (Violante-Gonzalez & Aguirre-Macedo, 2007) |
| Fish | *Gymnotus carapo* | banded knifefish | *Clinostomum complanatum* | Brazil | South America | (Silva-Souza & Ludwig, 2005) |
| Fish | *Haplochromis obliquidens* | cichlid  | *Clinostomum* sp. | Uganda | Africa | (Khalil & Thurston, 1973) |
| Fish | *Hemibarbs labeo* |  | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Hemibarbus longirostris* | common carp | *Clinostomum complanatum* | Korea | Asia | (Sohn *et al.*, 2015) |
| Fish | *Hemicromis fasciatus* | banded jewelfish | *Clinostomum* sp. | West Africa | Africa | (Coulibaly *et al.*, 1995) |
| Fish | *Hemicromis fasciatus* | banded jewelfish | *Clinostomum tilapiae* | Nigeria | Africa | (Olurin *et al.*, 2012) |
| Fish | *Hemiculter leucisculus* | sharpbelly | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Herichthys cyanoguttatus* | Rio Grande cichlid | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Herichthys cyanoguttatus* | Rio Grande cichlid | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Herichthys cyanoguttatus* | Rio Grande cichlid | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Hoplias malabricus* |  | *Clinostomum marginatum* | Brazil | South America | (Alcântara & Tavares-Dias, 2015) |
| Fish | *Hybopsis biguttata* | creek chub | *Clinostomum marginatum* | United States of America | North America | (Woods, 1971) |
| Fish | *Hypomesus transpacifucus* | delta smelt | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Ictalurus balsanus* | balsas catfish | *Clinostomum complanatum* | Mexico | North America | (Rosas-Valdez *et al.*, 2007) |
| Fish | *Lateolabrax japonicus* | Japanese seabass | *Clinostomum complanatum* | Korea | Asia | (Chung *et al.*, 1995) |
| Fish | *Lateolabrax japonicus* | Japanese seabass | *Clinostomum marginatum* | Korea | Asia | (Park *et al.*, 2009) |
| Fish | *Lebeo cubie* | African carp | *Clinostomum* sp. | Nigeria | Africa | (Okoye *et al.*, 2014) |
| Fish | *Lepomis auritus* | redbreast sunfish | *Clinostomum marginatum* | United States of America | North America | (Hazen & Esch, 1978) |
| Fish | *Lepomis cyanellus* | green sunfish | *Clinostomum marginatum* | United States of America | North America | This study |
| Fish | *Lepomis cyanellus* | green sunfish | *Clinostomum* sp.  | United States of America | North America | (Calhoun *et al.*, 2018) |
| Fish | *Lepomis gibbosus* | pumpkinseed | *Clinostomum marginatum* | Canada | North America | (Cone & Anderson, 1977) |
| Fish | *Lepomis gulosus* | pumpkinseed | *Clinostomum marginatum* | United States of America | North America | (Hazen & Esch, 1978) |
| Fish | *Lepomis macrochirus* | bluegill | *Clinostomum* sp. | United States of America | North America | (Bonett *et al.*, 2011) |
| Fish | *Lepomis macrochirus* | bluegill | *Clinostomum marginatum* | United States of America | North America | (Zimmermann & Ingold, 2008) |
| Fish | *Lepomis macrochirus* | bluegill | *Clinostomum marginatum* | United States of America | North America | This study |
| Fish | *Lepomis macrochirus* | bluegill | *Clinostomum* sp.  | United States of America | North America | (Calhoun *et al.*, 2018) |
| Fish | *Lepomis megalottis* | longear sunfish | *Clinostomum marginatum* | United States of America | North America | (Zimmermann & Ingold, 2008) |
| Fish | *Lepomis microlophus* | redear sunfish | *Clinostomum marginatum* | United States of America | North America | (Hazen & Esch, 1978) |
| Fish | *Lepomis microlophus* | redear sunfish | *Clinostomum marginatum* | United States of America | North America | This study |
| Fish | *Lepomis microlophus* | redear sunfish | *Clinostomum* sp.  | United States of America | North America | (Calhoun *et al.*, 2018) |
| Fish | *Loricariichthys platymetopon* | cari | *Clinostomum complanatum* | Brazil | South America | (Ferrari-Hoeinghaus *et al.*, 2007) |
| Fish | *Macrognathus aculeatus* | lesser spiny eel | *Clinostomum mastacembeli* | India | Asia | (Vankara & Vijayalakshmi, 2009) |
| Fish | *Mastacembelus pancalus* | barred spiny eel | *Clinostomum mastacembeli* | India | Asia | (Vankara & Vijayalakshmi, 2009) |
| Fish | *Microphysogobio yaluensis* | common carp | *Clinostomum complanatum* | Korea | Asia | (Chung *et al.*, 1995) |
| Fish | *Microphysogobio yaluensis* | common carp | *Clinostomum complanatum* | Korea | Asia | (Chung *et al.*, 1995) |
| Fish | *Micropterus salmoides* | largemouth black bass | *Clinostomum marginatum* | United States of America | North America | (Hazen & Esch, 1978) |
| Fish | *Micropterus salmoides* | largemouth black bass | *Clinostomum marginatum* | United States of America | North America | This study |
| Fish | *Micropterus salmoides* | largemouth black bass | *Clinostomum* sp.  | United States of America | North America | (Calhoun *et al.*, 2018) |
| Fish | *Micropterus salmoides* | largemouth black bass | *Clinostomum marginatum* | United States of America | North America | (Becker & Houghton, 1969)Becker & Houghton 1969 |
| Fish | *Micropterus salmoides* | largemouth black bass | *Clinostomum* sp. | United States of America | North America | (Bonett *et al.*, 2011) |
| Fish | *Micropterus salmoides* | largemouth black bass | *Clinostomum* sp. | United States of America | North America | (Troxel, 2010) |
| Fish | *Misgurnus anguillicaudatus* | pond loach | *Clinostomum complanatum* | Japan | Asia | (Kagei *et al.*, 1988) |
| Fish | *Mugil curema*  | white mullet | *Clinostomum complanatum* | Mexico | North America | (Violante-Gonzalez & Aguirre-Macedo, 2007) |
| Fish | *Mylopharyngodon piceus* | black carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Myxocyprinus asiaticus* | Chinese sucker | *Clinostomum complanatum* | China | Asia | (Li *et al.*, 2018) |
| Fish | *Onychostoma barbatula* | Taiwan shoveljaw carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Oreochromis leucostictus* | blue-spoted tilapia | *Clinostomum* sp. | Kenya | Africa | (Aloo, 2002) |
| Fish | *Oreochromis mossambicus* | Mozambique tilapia | *Clinostomum tilapiae* | South Africa | Africa | (Britz *et al.*, 1985) |
| Fish | *Oreochromis nilocticus* | Nile tilapia | *Clinostomum sp.* | Egypt | Africa | (Marwan & Mohammed, 2003) |
| Fish | *Oreochromis nilocticus* | Nile tilapia | *Clinostomum* sp. | Ethiopia | Africa | (Yimer, 2000) |
| Fish | *Oreochromis nilocticus* | Nile tilapia | *Clinostomum* sp. | Ethiopia | Africa | (Mohammed *et al.*, 2015) |
| Fish | *Oreochromis nilocticus* | Nile tilapia | *Clinostomum tilapiae* | Northern Africa | Africa | (Ukoli, 1966) |
| Fish | *Oreochromis nilocticus* | Nile tilapia | *Clinostomum* sp. | West Africa | Africa | (Coulibaly *et al.*, 1995) |
| Fish | *Oreochromis nilocticus* | Nile tilapia | *Clinostomum tilapiae* | Nigeria | Africa | (Echi *et al.*, 2012) |
| Fish | *Oreochromis nilocticus* | Nile tilapia | *Clinostomum tilapiae* | Kenya | Africa | (Ochieng *et al.*, 2012) |
| Fish | *Oreochromis shiranus* | tilapia shiranus | *Clinostomum* sp. | Tanzania | Africa | (Maguza-Tembo & Mfitilodze, 2008) |
| Fish | *Oreochromis* sp. |  | *Clinostomum* sp. | Congo | Africa | (Kabunda & Sommerville, 1984) |
| Fish | *Parachomis manauensis* | jaguar guapote | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Perca flavescens* | American yellow perch | *Clinostomum marginatum* | United States of America | North America | (Chandler, 1951) |
| Fish | *Perca fluviatilis* | European perch | *Clinostomum complanatum* | Poland | Europe | (Grabda-Kazubska, 1974) |
| Fish | *Plecoglossus altivelis* | ayu sweetfish | *Clinostomum complanatum* | Taiwan | Asia | (Lo *et al.*, 1981) |
| Fish | *Plecoglossus altivelis* | ayu sweetfish | *Clinostomum complanatum* | Japan | Asia | (Lo *et al.*, 1987) |
| Fish | *Poecilia mexicana* | shortfin molly | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Pomoxis nigromaculatus* | black crappie | *Clinostomum marginatum* | United States of America | North America | (Hazen & Esch, 1978) |
| Fish | *Potamotrygon falkneri* | largespot river stingray | *Clinostomum complanatum* | Brazil | South America | (Lacerda *et al.*, 2008) |
| Fish | *Profundulus balsanus* | balsas killifish | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Profundulus punctatus* | oaxaca killifish | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Profundulus punctatus* | oaxaca killifish | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Pseudogobio esocinus* | common carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Pseudorasbora parva* | stone moroko | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Pseudorasbora parva* | stone moroko | *Clinostomum complanatum* | Japan | Asia | Aohagi *et al.* 1992 |
| Fish | *Pseudorasbora parva* | stone moroko | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Pungtungia herzi* | common carp | *Clinostomum complanatum* | Korea | Asia | (Sohn *et al.*, 2015) |
| Fish | *Rasborinus formosae* | common carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Rhamdia guatemalensis* | pale catfish | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Rhamdia guatemalensis* | pale catfish | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Rhamdia guatemalensis* | pale catfish | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Rhamdia guatemalensis* | pale catfish | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Rhamdia guatemalensis* | pale catfish | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Rhamdia rogersi* | filespine chulin | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Rhamdia rogersi* | filespine chulin | *Clinostomum* sp. | Costa Rica | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Rhamdia* sp. |  | *Clinostomum* sp. | Honduras | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Rhinogobius candidianus* | candidus goby | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Rhodeus lanceolatus* | common carp | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Rhodeus lanceolatus* |  | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Rhodeus ocellatus* | rosy bitterling | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Rhodeus ocellatus* | rosy bitterling | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Rhodeus uyekii* | common carp | *Clinostomum* sp. | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Rutilus rutilus* | roach | *Clinostomum complanatum* | Poland | Europe | (Grabda-Kazubska, 1974) |
| Fish | *Salangichthys microdon* | Japanese icefish | *Clinostomum complanatum* | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Salmo clarki* | cutthroat trout | *Clinostomum marginatum* | United States of America | North America | (Uzmann & Douglas, 1966) |
| Fish | *Salmo gairdneri* | rainbow trout | *Clinostomum complanatum* | Canada | North America | (Szalai & Dick, 1988) |
| Fish | *Salmo gairdneri* | rainbow trout | *Clinostomum marginatum* | United States of America | North America | (Uzmann & Douglas, 1966) |
| Fish | *Sarotherodon galilaeus* | mango tilapia | *Clinostomum cutaneium* | West Africa | Africa | (Coulibaly *et al.*, 1995) |
| Fish | *Sarotherodon galilaeus* | mango tilapia | *Clinostomum tilapiae* | Northern Africa | Africa | (Ukoli, 1966) |
| Fish | *Semotilus atromaculatus* | creek chub | *Clinostomum* sp. | Canada | North America | (Penczak *et al.*, 1984) |
| Fish | *Sinibrama macrops* | common carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Sqalidus gracilis majimae* | common carp | *Clinostomum* sp. | Japan | Asia | (Aohagi *et al.*, 1992) |
| Fish | *Squalidus japonicus coreanus* | common carp | *Clinostomum complanatum* | Korea | Asia | (Sohn, 2009) |
| Fish | *Squalius cephalus* | chub | *Clinostomum complanatum* | Turkey | Asia | (Simsek *et al.*, 2018) |
| Fish | *Synbranchus marmoratus* | marbled swalmp eel | *Clinostomum detruncatum* | Brazil | South America | (Acosta *et al.*, 2016) |
| Fish | *Synodontis batensoda* | Uupsidedow catfish | *Clinostomum tilapiae* | Nigeria | Africa | (Caffara *et al.*, 2017) |
| Fish | *Synodontis eupterus* | featherfin squeaker | *Clinostomum* sp. | Nigeria | Africa | (Okaka & Akhigbe, 1999) |
| Fish | *Synodontis nigrita* | false upside down catfish | *Clinostomum* sp. | Nigeria | Africa | (Dougnon *et al.*, 2012) |
| Fish | *Synodontis schall* | wahrindi | *Clinostomum* sp. | Nigeria | Africa | (Dougnon *et al.*, 2012) |
| Fish | *Tachysurus adiposalis* |  | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Tanakia himantegus* | common carp | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Thorichthys meeki* | firemouth cichlid | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Thorichthys* sp. | common carp | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Tilapia galilaea* | mango tilapia | *Clinostomum* sp. | Northern Africa | Africa | (Ukoli, 1966) |
| Fish | *Tilapia heudelotii* | blackchin tilapia | *Clinostomum* sp. | Northern Africa | Africa | (Ukoli, 1966) |
| Fish | *Tilapia mariae* | spotted tilapia | *Clinostomum tilapiae* | Nigeria | Africa | (Agbede *et al.*, 2004) |
| Fish | *Tilapia nilcotica* | Nile tilapia | *Clinostomum macrosomum* | Ruanda | Africa | (Manter & Pritchard, 1960) |
| Fish | *Tilapia* sp. | common carp | *Clinostomum* sp. | Uganda | Africa | (Paperna, 1980) |
| Fish | *Tilapia zilli* | redbelly tilapia | *Clinostomum* sp. | Nigeria | Africa | (Okaka & Akhigbe, 1999) |
| Fish | *Tilapia zilli* | redbelly tilapia | *Clinostomum tilapiae* | Nigeria | Africa | (Olurin & Somorin, 2006) |
| Fish | *Tilapia zilli* | redbelly tilapia | *Clinostomum* sp. | Northern Africa | Africa | (Ukoli, 1966) |
| Fish | *Tilapia zilli* | redbelly tilapia | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Tilapia zilli* | redbelly tilapia | *Clinostomum* sp. | Ethiopia | Africa | (Yimer, 2000) |
| Fish | *Trichogaster fasciatus* | banded gourami | *Clinostomum complanatum* | India | Asia |   |
| Fish | *Trichogaster microlepis* | moonlight gourami | *Clinostomum philippinensis* | Thailand | Asia | (Yooyen *et al.*, 2006) |
| Fish | *Trichogaster trichopterus* | three spot gourami | *Clinostomum* sp. | Japan | Asia | (Lo *et al.*, 1987) |
| Fish | *Trichopsis vittata* | croaking gourami | *Clinostomum* sp. | Thailand | Asia | (Senapin *et al.*, 2014) |
| Fish | *Trichpsis schalleri* | threestripe gourami | *Clinostomum* sp. | Thailand | Asia | (Senapin *et al.*, 2014) |
| Fish | *Umbra limi* | central mudminnow | *Clinostomum complanatum* | United States of America | North America | (Peckham & Dineen, 1957) |
| Fish | *Umbra limi* | central mudminnow | *Clinostomum complanatum* | United States of America | North America | (Peckham & Dineen, 1957) |
| Fish | *Varincorhinus beso* | African scraping feeder | *Clinostomum* sp. | Ethiopia | Africa | (Yimer & Enyew, 2003) |
| Fish | *Vieja* sp. | common carp | *Clinostomum* sp. | Mexico | North America | (Pérez Ponce de León *et al.*, 2009) |
| Fish | *Xiphophorus helleri* | green swordtail | *Clinostomum complanatum* | Mexico | North America | (Salgado-Maldonado *et al.*, 2005) |
| Fish | *Zacco barbata* | Taiwan horse mouth | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Zacco pachycephalus* |  | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Zacco platypus* | freshwater minnow | *Clinostomum complanatum* | Taiwan | Asia | (Wang *et al.*, 2017) |
| Fish | *Zacco temminckii* | dark chub | *Clinostomum complanatum* | Korea | Asia | (Chung *et al.*, 1995) |
|  |  |  |  |  |  |  |

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