**Supplementary Table.** Miscellaneous intestinal fluke speciesa with their life cycle and geographical distribution

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| --- | --- | --- | --- | --- | --- |
| Group | Species | First intermediate host | Second intermediate host | Reservoir host | Geographical distributionb |
| Heterophyids | *Acanthotrema felis* | unknown | brackish water fish(*Acanthogobius flavimanus*) | cat | Korea |
|  | *Apophallus donicus* | stream snail(*Flumenicola virens*) | freshwater fish(coho salmon, blackside dace, suckers) | dog, cat, rat, fox, rabbit | USA |
|  | *Ascocotyle longa* | cochliopid snail (*Heleobia australis*) | brackish water fish(*Mugil liza*)  | dog | Canada, Europe, Ukraine, USA |
|  | *Centrocestus armatus* | freshwater snail (*Semisulcospira libertina*) | freshwater fish(*Zacco platypus*)  | dog, cat, rabbit, rat, bird | Korea, Japan |
|  | *Centrocestus cuspidatus* | freshwater snail (*Oncomelania formosana*) | freshwater fish(*Gambusia* sp.)  | dog, cat, fox, rat, kite, chicken | China, Egypt, Kuwait, Taiwan, Tunisia |
|  | *Centrocestus kurokawai* | unknown | freshwater fish (?) | unknown | Japan |
|  | *Cryptocotyle lingua* | *Littorina* snails (*Littorina littorea*) | freshwater and brackish water fish(*Gobius ruthensparri*)  | dog, cat, rat, fox, gull, tern, heron | Denmark, England, Greenland, Iceland, Japan, North America, Norway, Russia, Ukraine |
|  | *Haplorchis vanissimus* | unknown | freshwater fish (?) | cormorant, eagle, heron, dog, cat | Australia, The Philippines |
|  | *Heterophyes dispar* | brackish water snail (*Pirenella conica*) | brackish water fish(*Mugil* spp.)  | dog, cat, fox, jackal, fox, wolf, kite | Egypt, Middle East |
|  | *Metagonimus katsuradai* | freshwater snail (*Semisulcospira libertine*) | freshwater fish(*Tanakia* spp*.*)  | dog (experimentally cat, dog, rat, rabbit, hamster) | Japan, Russia |
|  | *Metagonimus minutus* | unknown | brackish water fish(*Mugil cephalus*)  | experimental cat, mouse | Taiwan |
|  | *Procerovum calderoni* | brackish water snail (*Sermyla riquetti*) | freshwater fish (*Ophiocephalus striatus*) | dog, cat | China, Egypt, The Philippines |
|  | *Procerovum varium* | brackish water snail (*Melanoides tuberculata*) | brackish water fish(*Mugil affinis*)  | dog (exp.), cat | Australia, Cambodia, China, Egypt, India, Japan, Korea, Laos, The Philippines, Vietnam |
|  | *Stictodora lari* | brackish water gastropod (*Velacumantus australis*) | esturine fish, goby | cat, dog (exp.) | Japan, Korea, Australia |
| Echinostomes | *Echinochasmus jiufoensis* | freshwater snail (?) | snail, fish (?) | dog, cat, pig | China |
|  | *Echinoparyphium recurvatum* | planorbid or lymnaeid snail (*Physa* sp., *Lymnaea* spp.) | snail, tadpole, frog | dog, house rat, wild rat | Bangladesh, Bulgaria, Canada, China, Croatia, Czech Republic, Egypt, England, India, Indonesia, Japan, Korea, Mexico, The Philippines, New Zealand, Poland, Russia, Spain, Taiwan, Thailand, USA |
|  | *Echinostoma aegyptica* | unknown | unknown | rat | China, Egypt, Japan, Taiwan, Turkey, Vietnam |
|  | *Echinostoma angustitestis* | freshwater snail (?) | freshwater fish  | dog, livestock | China |
|  | *Echinostoma macrorchis* | freshwater snail (*Segmentina hemisphaerula*) | freshwater snail(*Segmentina hemisphaerula*), tadpole, frog | rat, mouse, bird | Japan, Korea, Laos, Taiwan |
|  | *Echinostoma paraensei* | freshwater snail (*Biomphalaria glabrata*) | freshwater snail (*Biomphalaria glabrata*) | rat | Australia, Brazil |
|  | *Himasthla muehlensi* | marine gastropod (?) | marine gastropod, bivalve, annelid (?) | bird, mammal (?) | North America (USA) |
|  | *Isthmiophora melis* | freshwater snail(*Lymnaea stagnalis*) | amphibians, fish | rodent, fox, marten, badger, hedgehog, mink | Belarus, Bulgaria, Canada, Czech Republic, England, France, Germany, Hungary, Lithuania, Poland, Romania, Russia, Taiwan, Ukraine, USA |
| Other group | *Cotylurus japonicus* | freshwater snail (?) | freshwater snail (?) | duck | China, India, Japan, Korea (South), Russia |
|  | *Fibricola cratera* | freshwater snail(*Physa gyrina*) | frog, tadpole | muskrat, brown rat, mouse, shrew | Canada, USA |
|  | *Fischoederius elongatus* | freshwater snail(*Lymnaea luteola*) | aquatic plants | ruminants (cattle, buffalo, caribous, goat, sheep) | China, England, India, Indonesia, Japan, Russia, Sri Lanka, Taiwan, Thailand, Vietnam |
|  | *Gynaecotyla squatarolae* | brackish water snail(*Batillaria cumingi*) | brackish water crab(*Macrophthalmus dilatatus*) | shorebirds(*Squatarola squatarola*) | Japan, Korea (South), Taiwan |
|  | *Isoparorchis hypselobagri* | prosobranch snail(*Melanoides tuberculatus*) | fish (catfish) | siluroid or non-siluroid fish | Australia, Bangladesh, China, India, Indonesia, Japan, Pakistan, Russia, Thailand, Vietnam |
|  | *Phaneropsolus spinicirrus* | unknown | naiad of dragonfly (?)  | not found (only human) | Thailand |
|  | *Plagiorchis harinasutai* | freshwater snail (?)(*Lymnaea* sp.) | snail, insect larva, fish (?) | rodent, bat, bird (?) | Thailand |
|  | *Plagiorchis javensis* | freshwater snail (?) | snail, insect larva, fish (?) | bat, bird | Indonesia |
|  | *Plagiorchis muris* | freshwater snail(*Lymnaea pervia*) | snail, aquatic insect, shrimp, small fish  | dog, cat, raccoon, bat, rat, mouse, bird | Cambodia, Central Europe, England, Iran, Ireland, Japan, Korea (South), Laos, Mexico, Netherlands, The Philippines, Spain, Taiwan, Thailand, USA, Vietnam |
|  | *Plagiorchis philippinensis* | unknown | insect larva (?) | rat, bird (?) | The Philippines |
|  | *Plagiorchis vespertilionis* | aquatic snail(*Lymnaea stagnalis*) | insect larva | rodent, bat | Afghanistan, Belarus, Canada, China, Denmark, Egypt, France, Hungary, India, Iraq, Italy, Japan, Korea (South), Madagascar, Mexico, Mongolia, Poland, Romania, Russia, Spain, Taiwan, Turkey, Ukraine, USA |
|  | *Prohemistomum vivax* | freshwater snail (*Cleopatra bulimoides*) | brackish and freshwater fish | dog, cat, kite, rat (exp.) | Egypt, Israel, Europe |
|  | *Watsonius watsoni* | freshwater snail(*Physa* sp*.*) | aquatic plants (?) | monkey, baboon | Nigeria, Senegal, Vietnam, Zambia |

aMiscellaneous intestinal flukes are defined as those having less than 10 reported human cases.

bThe life cycles and geographical distributions of miscellaneous intestinal flukes are mostly referred from Chai (2019) and Chai and Jung (2019, 2020).