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Checklist of monogenetic trematodes infesting Bangladesh and Indian freshwater fishes

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Monogenetic trematodes are ectoparasitic of both freshwater and marine fish. They are occasionally known to infest amphibians and certain invertebrates. In fish they infest skins, gills, fins and cause damage and necrosis of host tissue due to anchors and clamps present on the haptor during their feeding (Tripathi, 1975). A huge number of monogenetic trematodes have been described from freshwater fish of Indian sub-continent particularly from India. The important works on this groups of parasites are of Dayal (1941), Jain (1952, 1957, 1958, 1960), Kulkarni (1969, 1970), Thapar (1948), Tripathi (1955, 1957, 1975), Gussev (1976), Lim (1996) and Lim and Lerssutthichawal (1996). Unfortunately, investigations of monogenean fauna of Bangladesh waters are still in initial stage. There is only a record of work on monogenetic trematodes by Hafizuddin and Shahabuddin (1996) from freshwater fish of Bangladesh. However, very recently severals works have been published from the Department of Aquaculture, Faculty of Fisheries, BAU Mymensingh (Mohanta & Chandra, 2000; Hossain *et al.*, 2000; Mohanta *et al.*, 2000; Chandra *et al.*, 2000; Chandra and Jannat, 2002; Ferdousi and Chandra, 2002; Chandra and Yasmin, 2003; Saha *et al.*, 2003; Ghosh *et al.*, 2003 and Begum and Chandra, 2003).

The present work was actually intiated with financial support of BAURES, BAU, Mymensingh granting research projects for which necessary literatures could be collected from this subcontinent. The present communication is therefore, the output of literature study providing the parasite-host and host-parasite list available in freshwater fishes of India and Bangladesh. It is believed that this work will be very useful for the future workers on this group of parasites.

The systematic arrangement of hosts is done following Rahman (1989). For monogenean classification Yamaguti (1963) is followed. The scientific names were used from the classification and nomenclature described by the original authors.

A total of 192 species of monogenetic trematodes belonging to 35 genera under five different families- Capsalidae, Calceostomatidae, Dactylogyridae, Gyrodactylogyridae and Diplozoidae have been reported from freshwater fishes of Bangladesh and India. Among the parasitic genera the highest number of 57 species of *Dactylogyrus* followed by 14 species from each *Ancyrocephalus* and *Silurodiscoides* and 11 species from *Thaparocleidus* are recorded. From Bangladesh only 48 species are so far recorded from 29 species of fish host. Sixty-seven host fishes are so far found infested belonging to fifteen different families. The maximum hosts (33) were infested of the family Cyprinidae followed by Schilbeidae (8 species) and Bagridae (7 species). (*) Indicates the reports of the parasites from Bangladesh waters.

A. Parasite - Host list**Order Monogenea Van Beneden, 1858****Sub-order Monopisthocotylea Odhner, 1912****Super Family Capsaloidea Price, 1936****Family Capsalidae Baird, 1853**

<u>Parasite</u>	<u>Host</u>
Genus <i>Prostomia</i> Bychowsky, 1957	
<i>Prostomia wallagonia</i> Jain, 1959	<i>Wallago attu</i>
* <i>Prostomia asiatica</i> Jain, 1959	<i>Ailia coila</i>
* <i>Prostomia</i> sp.	<i>W. attu</i>
Genus <i>Neoprostomia</i> Jain, 1959	
<i>Neoprostomia garuai</i> Agrawal and Singh, 1942	<i>Clarias garua</i>
Super Family Dactylogyroidea Yamaguti, 1963	
Family Calceostomatidae Poche, 1926	
Genus <i>Neocalceostoma</i> Tripathi, 1957	
<i>Neocalceostoma chauhanii</i> Pandey and Mehta, 1986	<i>W. attu</i>
Family Dydactylogyridae Bychowsky, 1933	
Genus <i>Actinoceidus</i> Mueller, 1937	
* <i>Actinocleidus mulleri</i> Ferdousi and Chandra, 2002	<i>Oreochromis niloticus</i>
Genus <i>Ancylodiscoides</i> Yamaguti, 1937	
<i>Ancylodiscoides vachi</i> Tripathi, 1959	<i>Eutropiichthys vacha</i>
* <i>A. notopterus</i> (Jain, 1955)	<i>Notopterus notopterus</i>
<i>A. jaini</i> (Tripathi, 1959)	<i>Macrones keletius</i>
<i>A. pangasi</i> ((Tripathi, 1959))	<i>Pangasius pangasius</i>
* <i>A. indicus</i> Kulkarni, 1969	<i>Wallagiu attu</i>
<i>A. micracanthus</i> (Kulkarni, 1969)	<i>Mystus aor</i>
Genus <i>Ancyrocephalus</i> Creplin, 1839	
<i>Ancyrocephalus bam</i> Tripathi, 1959	<i>Rhynchobdella aculeata</i>
<i>A. esomi</i> Gussev, 1963	<i>Esomus danricus</i>
<i>A. heter anchoris</i> Gussev, 1963	<i>Rasbora daniconius</i>
<i>A. rasborae</i> Gussev, 1963	<i>R. daniconius</i>
* <i>A. daniconis</i> Gussev, 1963	<i>R. daniconius</i>
<i>A. aequalis</i> Gussev, 1963	<i>R. daniconius</i>
<i>A. kirtisinghei</i> Gussev, 1963	<i>R. daniconius</i>
<i>A. tripathii</i> Gussev, 1963	<i>R. daniconius</i>
<i>A. etropoli</i> Gussev, 1963	<i>Etoplus suratnensis</i>
<i>A. chakrabarti</i> Gussev, 1976	<i>Esomus danricus</i>
<i>A. spiculus</i> Gussev, 1976	<i>C. bacaila</i>

	<i>A. ghoshi</i> Gussev, 1976	<i>C. bacaila</i>
	<i>A. banghi</i> Gussev, 1976	<i>C. bacaila</i>
	* <i>A. ambassi</i> Ghosh, Chandra and Saha, 2003	<i>Chanda nama</i>
Genus	<i>Bifurcohaptor</i> Jain, 1958	
	* <i>Bifurcohaptor indicus</i> Jain, 1958	
	<i>B. giganticus</i> Jain, 1958	<i>Mystus vittatus</i>
	<i>B. son</i> Tripathi, 1959	<i>Pangasius hypothalmus</i>
	<i>B. minutam</i> Kulkarni, 1969	<i>M. seenghala</i>
	<i>B. hemalatae</i> Gupta, 1984	<i>Bagarius bagarius</i>
Genus	<i>Bychowskyella</i> Achmerow, 1952	<i>M. tengara, M. vittatus</i>
	<i>Bychowskyella gomiti</i> Jain, 1959	<i>Rita rita</i>
	<i>B. singhi</i> Rajeswari & Kulkarni, 1983	
	<i>B. cauveryi</i> (Tripathi, 1959)	<i>Eutropiichthys vacha</i>
	<i>B. garui</i> ((Tripathi, 1959))	<i>W. attu</i>
	<i>B. indica</i> Gussev, 1976	<i>Silonia silondia</i>
	<i>B. wallagonia</i> ((Jain, 1959))	<i>E. vacha</i>
	<i>B. caballeroi</i> Gussev, 1976	<i>E. vacha</i>
	<i>B. vacha</i> Tripathi, 1959)	<i>W. attu</i>
	<i>B. bychowskyii</i> Gussev, 1976	<i>Clupisoma garua</i>
	<i>B. asiatica</i> Gussev, 1976	<i>E. vacha</i>
	* <i>B. tchangi</i> Gussev, 1976	<i>Psedotropius takree</i>
Genus	<i>Cichlidogyrus</i> Paperna, 1960	<i>Callichrous pabda</i>
	* <i>Cichlidogyrus bangladeshi</i> Ferdousi and Chandra, 2002	<i>Clarias batrachus</i>
	* <i>C. chandrai</i> Ferdousi and Chandra, 2002	
Genus	<i>Cornudiscooides</i> Kulkarni, 1969	
	<i>Cornudiscooides vittati</i> Dubey, Gupta and Agrawal, 1992	<i>Oreochromis niloticus</i>
	<i>C. heterocotylus</i> Kulkarni, 1969	<i>O. niloticus</i>
	<i>C. microcotylus</i> Kulkarni, 1969	
	<i>C. megalorchis</i> Kulkarni, 1969	
	* <i>C. proximus</i> Gussev, 1976	<i>M. cavassius</i>
	<i>C. geminus</i> Gussev, 1976	<i>M. tengara</i>
	<i>C. raipurensis</i> Dubey, Gupta and Agrawal, 1992	<i>M. tengara</i>
Genus	<i>Dactylogyrus</i> Diesing, 1850	<i>M. tengara</i>
	<i>Dactylogyrus boli</i> Tripathi, 1959	<i>M. vittatus</i>
	<i>D. batae</i> Jain, 1959	<i>M. vittatus</i>
	<i>D. calbasi</i> Jain, 1960	<i>M. vittatus</i>
	<i>D. catlaius</i> Jain, 1962	
	<i>D. chagunionis</i> Tripathi, 1959	<i>Barilius bola</i>
	<i>D. cauveryi</i> Tripathi, 1959	<i>L. rohita</i>
	* <i>D. glossogobii</i> Jain, 1960	<i>L. calbasu</i>
	<i>D. gobii</i> (Tripathi, 1959)	<i>Catla catla</i>
	* <i>D. gussevi</i> Jain, 1959	<i>Chagunio chagunio</i>

<i>D. indicus</i> Jain, 1960	<i>G. giuris</i>
<i>D. kontii</i> Tripathi, 1959	<i>L. kontii</i>
<i>D. longicirrus</i> Tripathi, 1959	<i>P. ticto</i>
* <i>D. cirrhini</i> Jain, 1960	<i>Cirrhinus mrigala</i>
* <i>D. minutus</i>	<i>Cyprinus carpio</i>
* <i>D. hypophthalmichthys</i>	<i>Hypophthalmichthys molitrix</i>
<i>D. multispinalis</i> Jain, 1957	<i>P. stigma, Silonia silondia</i>
<i>D. moorthyi</i> Price, 1938	<i>P. ticto, P. puckelli</i>
<i>D. orientalis</i> Jain, 1959	<i>P. stigma</i>
<i>D. ritius</i> (Jain, 1962)	<i>Rita rita</i>
<i>D. sarani</i> Tripathi, 1959	<i>P. sarana</i>
<i>D. dorsalis</i> Gussev, 1963	<i>P. dorsalis</i>
<i>D. pharyngococephalus</i> Kulkarni, 1970	<i>G. giuris</i>
<i>D. pedunculatus</i> Kulkarni, 1970	<i>R. doniconius</i>
<i>D. brevifurcatus</i> Kulkarni, 1970	<i>C. mrigala</i>
<i>D. anchoracanthus</i> Kulkarni, 1970	<i>C. reba</i>
<i>D. seenghali</i> Jain, 1962	<i>M. seenghala</i>
* <i>D. tripathii</i> Yamaguti, 1963	<i>P. ticto</i>
<i>D. curiosus</i> Gussev, 1963	<i>R. doniconius</i>
<i>D. doniconii</i> Gussev, 1963	<i>R. doniconius</i>
<i>D. acquipinnati</i> Gussev, 1963	<i>Danio acquipinnatus, Danio</i> sp.
<i>D. fernandoi</i> Gussev, 1963	<i>P. dorsalis</i>
<i>D. sphyrnoides</i> Gussev, 1976	<i>B. sarana</i>
<i>D. brevitubus</i> Gussev, 1976	<i>L. gonius</i>
<i>D. speciosus</i> Gussev, 1976	<i>L. rohita</i>
* <i>D. kalyanensis</i> Gussev, 1976	<i>C. catla</i>
<i>D. spinitibus</i> Gussev, 1976	<i>C. catla</i>
<i>D. chauhanus</i> Gussev, 1976	<i>C. mrigala</i>
<i>D. yogendrai</i> Gussev and Musselius, 1976	<i>C. mrigala, L. rohita</i>
<i>D. Parvionchoris</i> Gussev, 1976	<i>C. bacila</i>
* <i>D. subtilis</i> Gussev, 1976	<i>P. stigma</i>
<i>D. barbi</i> Gussev, 1976	<i>B. sarana</i>
<i>D. tori</i> Gussev, 1976	<i>B. tor</i>
<i>D. dubii</i> Gussev, 1976	<i>B. dubius</i>
<i>D. varicorhenoides</i> Gussev, 1976	<i>B. sarana</i>
<i>D. magnicordus</i> Gussev, 1976	<i>B. dubius</i>
<i>D. lahanii</i> Gussev, 976	<i>L. bata</i>
<i>D. chitra vangshii</i> Gussev, 1976	<i>L. fimbriatus</i>
<i>D. vicinus</i> Gussev, 1976	<i>L. calbasu</i>
<i>D. crucitrabus</i> Gussev, 1976	<i>C. reba</i>
* <i>D. mrigali</i> Gussev, 1976	<i>C. mrigala</i>
* <i>D. rebai</i> Ghosh, Chandra and Saha, 2003	<i>C. reba</i>
* <i>D. lampam</i> Lim & Furtado, 1986	<i>B. gonionotus</i>
* <i>D. siamensis</i> Chinabut and Lim, 1993	<i>B. gonionotus</i>
* <i>D. mymensinghi</i> Mohanta, Chandra and	

	Hossain, 2000	<i>P. chola</i>
	* <i>D. bangladeshi</i> Mohanta, Chandra and Hossain, 2003	<i>P. chola</i> , <i>P. ticto</i>
	* <i>D. ogawai</i> Mohanta, Chandra and Hossain, 2003	<i>P. ticto</i>
Genus	<i>Dactylogyroides</i> Gussev, 1963	
	<i>Dactylogyroides vittati</i> Gussev, 1963	<i>P. vittatus</i>
	<i>D. bimaculati</i> Gussev, 1963	<i>P. bimaculatus</i>
	<i>D. gussevi</i> (Gussev, 1959)	<i>P. filamentosus</i>
	* <i>D. tripathii</i> (Yamaguti, 1963)	<i>P. melanaphys</i> , <i>P. sarana</i>
	* <i>D. longicirrus</i> Tripathi, 1959	<i>P. ticto</i>
Genus	<i>Dogielius</i> Bychowsky, 1936	<i>P. stigma</i> , <i>P. ticto</i>
	<i>Dogielius catlaius</i> (Jain, 1961)	<i>L. gonius</i> , <i>C. catla</i>
	<i>D. lucknowensis</i> Agrawal and Sharma, 1988	<i>Oxygogaster bacaila</i>
	<i>D. indica</i> Agrawal and Singh, 1984	<i>O. bacaila</i> Genus
Genus	<i>Glossodactylogyrus</i> Saha, Chandra & Ghosh, 2003	
	* <i>Glossodactylogyrus bangladeshi</i> Saha, Chandra and Ghosh, 2003	
Genus	<i>Hamatopenduncularia</i> Yamaguti, 1953	
	<i>Hamatopenduncularia sohani</i> Tew. and Agra., 1986	<i>W. attu</i>
	<i>H. lucknowensis</i> Agrawal and Sharma, 1988	<i>W. attu</i>
	<i>H. yogendrai</i> Pandey & Mehta, 1986	<i>W. attu</i>
	<i>H. wallagonia</i> Singh, Agrawal and Sharma, 1995	<i>W. attu</i>
Genus	<i>Haplocheidus</i> Mueller, 1937	
	<i>Haplicheidus gomtius</i> Jain 1957	<i>W. attu</i>
	<i>H. octotylus</i> Kulkarni, 1969	<i>Callichrous pabda</i>
	<i>H. globodiscus</i> Kulkarni, 1969	<i>Eutroplus suratensis</i>
	<i>H. rhynchobdelli</i> (Jain, 1959)	<i>Rhynchobdella aculeata</i>
	* <i>H. xenentodon</i> Jain, 1959	<i>Xenentodon cancila</i>
Genus	<i>Heteroncoeleidus</i> Bychowsky, 1952	
	* <i>Heteroncoeleidus colisae</i> Chandra and Yasmin, 2003	<i>Colisa fasciata</i>
	* <i>H. buschkeli</i> Bychowsky, 1957	<i>C. fasciata</i>
	* <i>H. bangladeshi</i> Chandra and Yasmin, 2003	<i>C. fasciata</i>
	* <i>H. anabasi</i> Chandra & Yasmin, 2003	<i>Anabus testudineus</i>
	<i>H. athari</i> Pandey, 1986	<i>W. attu</i>
Genus	<i>Indocytulus</i> Kulkarni, 1969	
	<i>Indocytulus microcanthus</i> Kulkarni, 1969	<i>Mystus aor</i>
Genus	<i>Mizelleus</i> Jain, 1957	
	<i>Mizelleus indicus</i> Jain, 1957	<i>Wallago attu</i>
	<i>M. linorchis</i> Kulkarni, 1969	<i>W. attu</i>
	<i>M. prostorchidis</i> Kulkarni, 1969	<i>M. aor</i>
	<i>M. chauhanii</i> Agrawal and Sharma, 1989	<i>W. attu</i>
	<i>M. hindanensis</i> Tewari and Agrawal, 1986	<i>W. attu</i>
	<i>M. lucknowensis</i> Agrawal and Sharma 1986	<i>W. attu</i>
Genus	<i>Neodactylogyrus</i> Price, 1938	

	<i>Neodactylogyrus calbasi</i> Jain, 1957	<i>L. calbasu</i>
	<i>N. cotius</i> Jain, 1957	<i>Rohtee cotio</i>
	<i>N. indicus</i> Jain, 1957	<i>P. stigma</i>
	* <i>N. chandri</i> Saha, Chandra & Ghosh, 2003	<i>G. giuris</i>
	<i>N. hyderabadensis</i> Kulkarni, 1972	<i>B. sarana</i>
Genus	<i>Neomurraytrema</i> Tripathi, 1959	
	<i>Neomurraytrema tengra</i> Tripathi, 1959	<i>M. gulio</i>
Genus	<i>Onchiodiscus</i> Kulkarni, 1969	
	<i>Onchiodiscus petrodiscoides</i> Kulkarni, 1969	<i>Eutroplus suratensis</i>
Genus	<i>Oreochromogyrus</i> Ferdousi and Chandra, 2002	
	* <i>Oreochromogyrus mymensinghi</i> Ferdousi and Chandra, 2002	<i>Oreochrmis niloticus</i>
Genus	<i>Pardactylogyrus</i> Thapar, 1948	
	<i>Paradactylogyrus catlaius</i> Thapar, 1948	<i>C. catla</i>
	<i>P. bati</i> (Tripathi, 1959)	<i>L. rohita</i>
Genus	<i>Paracylodiscoides</i> Achmerow, 1964	
	<i>Paracylodiscoides gussevi</i> Dubey, Gupta and Agarwal, 1992	<i>W. attu</i>
Genus	<i>Quadricanthus</i> Paperna, 1961	
	* <i>Quadricanthus kobiensis</i> Ha ky, 1968	<i>C. batrachus</i>
Genus	<i>Silurodiscoides</i> Gussev, 1976	
	* <i>Silurodiscoides indicus</i> (Kulkarni, 1969)	<i>W. attu</i>
	<i>S. sudhakari</i> Gussev, 1976	<i>W. attu</i>
	* <i>S. octotylus</i> (Kulkarni, 1969)	<i>C. pabda</i>
	<i>S. devraji</i> Gussev, 1976	<i>C. malabaricus</i>
	<i>S. malabaricus</i> Gussev, 1976	<i>C. malabaricus</i>
	<i>S. vaginalis</i> Gussev, 1976	<i>Psudoeutropius garua</i>
	<i>S. aori</i> Rizvi, 1971	<i>M. aor</i>
	<i>S. pusillus</i> Gussev, 1976	<i>M. vittatus</i>
	* <i>S. parvullus</i> Gussev, 1976	<i>M. vittatus</i>
	<i>S. gussevi</i> Singh, Kumar and Agarwal, 1992	<i>W. attu</i>
	<i>S. dayali</i> Pandey & Agrawal, 1988	<i>W. attu</i>
	* <i>S. siamensis</i> Lim, 1990	<i>P. hypophthalmus</i>
	* <i>Silurodiscoides</i> sp. I	<i>Pseudeutropius atherinoides</i>
	* <i>Silurodiscoides</i> sp. II	<i>P. ahrinoides</i>
Genus	<i>Silurodactylogyrus</i> Ghosh, Chandra and Saha, 2003	
	* <i>Silurodactylogyrus chandai</i> Ghosh, Chandra and Saha, 2003	<i>C. nama</i>
Genus	<i>Thaparocleidus</i> Jain, 1952	
	<i>Thaparocleidus sohani</i> (Pandey and Mehta, 1986)	<i>W. attu</i>
	<i>T. wallagonius</i> Jain, 1952	<i>W. attu</i>
	<i>T. lucknowius</i> Gussev, 1976	<i>L. bast</i>
	* <i>T. kao</i> Lim and Leressutthichwal, 1999	<i>W. attu</i>
	<i>T. indicus</i> Kulkarni, 1969)	<i>W. attu</i>
	<i>T. jaini</i> Agrawal, 1981	<i>W. attu</i>

	<i>T. guptai</i> Pandey and Mehta, 1986	<i>W. attu</i>
	<i>T. saharanpurensis</i> Pandey and Agrawal, 1990	<i>W. attu</i>
	<i>T. sharmae</i> (Singh and Sharma, 1992)	<i>W. attu</i>
	<i>T. surendrai</i> Pandey and Agrawal, 1990	<i>W. attu</i>
	<i>T. yogendrai</i> Agrawal, 1981	<i>W. attu</i>
Genus	<i>Urocleidus</i> Mueller, 1934	
	<i>Urocleidus heteracanthus</i> Kulkarni, 1969	<i>M. armatus</i>
	<i>U. mrigalae</i> Kulkarni, 1969	<i>C. mrigala</i>
	<i>U. ramalingami</i> Pandey and Mehta, 1986	<i>W. attu</i>
	* <i>U. raipurensis</i> Dubey, Gupta and Agarwal, 1992	<i>M. panchalus</i>
Genus	<i>Wallagotrema</i> Tripathi, 1959	
	<i>Wallagotrema longicirrus</i> Tripathi, 1959	<i>W. attu</i>
	<i>W. chauhanii</i> Agrawal and Pandey, 1981	<i>W. attu</i>

Super family Gyrodactyloidea Johnston and Tiegs, 1922

Family Gyrodactylidae Cobbold, 1864

Genus	<i>Gyrodactylus</i> Nordmann, 1832	
	<i>Gyrodactylus elegans indicus</i> Tripathi, 1959	<i>L. rohita</i>
		<i>L. bata, C. catla</i>
		<i>C. mrigala</i>
	<i>G. neonephrotus malmbergi</i> Singh and Agrawal, 1994	<i>Heteropneustes fossilis</i>
	<i>G. hyderabadensis</i> Venkatanarsaiah, 1979	<i>Channa</i> sp.
	<i>G. recurvensis</i> Rukmini and Madhavi, 1989	<i>Aplocheilus panchax,</i> <i>A. blochi</i>
	* <i>Gyrodactylus</i> sp.	<i>B. gonionotus</i>
Genus	<i>Metagyrodactylogyrus</i> Yamaguti, 1963	
	<i>Metagyrodactylus</i> (Baugh, 1957)	<i>Channa</i> sp.

Super family Diplozooidea Yamaguti, 1963

Family Diplozooidae Tripathi, 1959

Genus	<i>Diplozoon</i> Nordmann, 1832	
	<i>Diplozoon cauveryi</i> Tripathi, 1959	<i>C. cirrhosa</i>
	<i>D. indicus</i> Dayal, 1941	<i>B. sarana</i>
	<i>D. kashmirensis</i> Kaw, 1950	<i>Schizothorax</i> sp.
	<i>D. soni</i> Tripathi, 1959	<i>Oxygaster bacaila</i>
Genus	<i>Neodiplozoon</i> Tripathi, 1960	
	<i>Neodiplozoon barbi</i> (Tripathi, 1959)	<i>B. chagunio</i>

B. Host-Parasite list**Super class Pisces****Class Teleostei**

<u>Host</u>	<u>Parasite</u>
Order Beloniformes	
Family Belonidae	
<i>Xenentodon cancila</i>	<i>Haplocleidus xenentodoni</i>
Order Cypriniformes	
Family Cyprinodontidae	
<i>Aplocheilus panchax</i> <i>A. blochi</i>	<i>Gyrodactylus recurvensis</i> <i>G. recurvensis</i>
Order Ophicephaliformes	
Family Ophicephalidae	
<i>Channa</i> sp.	<i>Gyrodactylus hyderabadensis</i> <i>Metagyrodactylus indicus</i>
Order Cypriniformes	
Family Cyprinidae	
<i>Barilius bola</i> <i>Danio acquipinnalus</i> <i>Esomus danrica</i> <i>Oxgaster bacaila</i> (<i>Chela bacaila</i>)	<i>Dactylogyrus bola</i> <i>D. acquipinnati</i> <i>Ancyrocephalus chakrabartii</i> , <i>A. esomi</i> <i>Diplozoon soni</i> , <i>Dactylogyrus parvionchoris</i> <i>Dogielus indicus</i> , <i>D. lucknowensis</i> <i>Ancyrocephalus baughi</i> , <i>A. ghoshi</i> , <i>A. spiculus</i> <i>Dactylogyrus curiosus</i> , <i>D. pedunculatus</i> , <i>D. daniconius</i> , <i>Ancyrocephalus heteranchoris</i> , <i>A. rasborae</i> , <i>A. kirtisinghei</i> , <i>A. danriconi</i> , <i>A. tripathii</i> , <i>A. acqualis</i> <i>Dactylogyrus chagunionis</i>
<i>Rasbora daniconius</i>	
<i>Chagunius chagunio</i> (<i>Barbus chagunius</i>) <i>Puntius vittatus</i> <i>P. filamentosus</i> <i>P. sarana</i> (<i>Barbus sarana</i>)	<i>Dactylogyrus vittati</i> <i>Dactylogyroides gussevi</i> <i>Dactylogyrus sarani</i> , <i>D. barbi</i> , <i>D. varicarinoides</i> <i>D. sphyrnoides</i> <i>Neodactylogyrus hyderabadensis</i> <i>Dactylogyroides gussevi</i> <i>Diplozoon indicum</i> <i>Dactylogyroides bimaculati</i> <i>Dactylogyrus longicirrus</i> , <i>D. moortyi</i> , <i>D. tripathii</i> , <i>D. bangladeshi</i> , <i>D. ogawai</i> <i>Dactylogyroides tripathii</i> , <i>D. longicirrus</i>
<i>P. bimaculatus</i> <i>P. ticto</i>	

<i>P. stigma</i>	<i>Dactylogyrus gussevi, D. multispiralis, D. orientalis</i>
<i>P. puckelli</i>	<i>D. subtilis, D. longiacus, D. brevistignus, D.</i>
<i>P. dubius</i>	<i>Neodactylogyrus indicus, Dactylogyroides</i>
<i>(Barbus dobiius)</i>	<i>longicirrus</i>
<i>P. dorsalis</i>	<i>Dactylogyrus moorthyi</i>
<i>(Barbus dorsalis)</i>	<i>Dactylogyrus cauveryi, D. dubii, D. magnicordus</i>
<i>P. chola</i>	<i>Dactylogyrus fernandoi, D. dorsalis, D. lucius</i>
<i>Barbodes gonionotus</i>	
<i>Tor tor</i>	<i>Dactylogyrus mymensinghi, D. bangladeshi</i>
<i>(Barbus tor)</i>	<i>Dactylogyrus siamensis, D. lampam</i>
<i>Catla catla</i>	<i>Gyrodactylus sp.</i>
	<i>Dactylogyrus tori</i>
<i>Cirrhinus mrigala</i>	<i>Gyrodactylus elegans indicus</i>
<i>C. reba</i>	<i>Paradactylus catlaius</i>
<i>C. cirrhosa</i>	<i>Dactylogyrus catlaius,</i>
<i>Labeo rohita</i>	<i>D. kalyanensis, D. kalyanensis, D. spinutubus,</i>
<i>L. bata</i>	<i>D. labei</i>
<i>L. bast</i>	<i>Dogielius catlaius</i>
<i>L. calbasu</i>	<i>Dactylogyrus mriggali, D. chauhanus, D. yogendrai</i>
<i>L. kontius</i>	<i>D. cirrhini, D. brevifurcatus</i>
<i>L. gonius</i>	<i>Gyrodactylus hyderabadensis</i>
<i>L. fimbriatus</i>	<i>Urochleidus mrigali</i>
<i>Rohtee cotio</i>	<i>Dactylogyrus anchoracanthus, D. cirrhini</i>
<i>Schizothorax sp.</i>	<i>D. crucitrabu, D. rebai</i>
<i>Cyprinus carpio</i>	<i>Diplozoon cauveryi</i>
<i>Hypophthalmichthys molitrix</i>	<i>Gyrodactylus elegans indicus</i>
	<i>Dactylogyrus speciosus, D. yogendrai, D. labei</i>
	<i>Paradactylogyrus bati</i>
	<i>Dactylogyrus batai, D. lahanii</i>
	<i>Gyrodactylus elegans indicus</i>
	<i>Thaparocleidus lucknowensis</i>
	<i>Dactylogyrus calbasi, D. virinus, D. labei</i>
	<i>Neodactylogyrus calbasi</i>
	<i>Dactylogyrus kontii</i>
	<i>Dactylogyrus brevitubus, D. labei</i>
	<i>Dogielius catlaius</i>
	<i>Dactylogyrus chirrabanshii</i>
	<i>Neodactylogyrus cotius</i>
	<i>Diplozoon kashmirensis</i>
	<i>Dactylogyrus minutus</i>
	<i>Dactylogyrus hypophthalmichthys</i>

Family Siluridae

<i>Ompok bimaculatus</i> (<i>Callichrous pabda</i>)	<i>Bychowskyella asiatica</i>
<i>O. malabaricus</i>	<i>Haplocheidus octotylus</i>
<i>Wallago attu</i>	<i>Silurodiscoides octotylus</i>
	<i>Silurodiscoides malabaricus</i>
	<i>S. vaginalis</i>
	<i>Silurodiscoides indicus, S. gussevi, S. sudhakari,</i>
	<i>S. dayali</i>
	<i>Ancylodiscoides indicus</i>
	<i>Sprostonia wallagonia</i>
	<i>Heteroncholeidus athari</i>
	<i>Haplocleidus gomitius</i>
	<i>Bychowskyella singhi, B. wallagonia</i>
	<i>Thaparocleidus sohani, T. wallagonia, T. kao,</i>
	<i>T. indicus, T. jaini, T. guptai, T. saharanpurensis,</i>
	<i>T. sarmae, T. surendrai, T. yogendrai</i>
	<i>Hematopenduncularia lucknowensis,</i>
	<i>H. yogendrai, H. wallagonius</i>
	<i>Urochleidus ramalingami</i>
	<i>Paracylodiscoides gussevi</i>
	<i>Wallagotrema longicirrus, W. chauhani</i>
	<i>Neocalcestoma chauhani</i>

Family Schilbeidae

<i>Claris garua</i>	<i>Bychowskyella caballeroi</i>
	<i>Silurodiscoides vaginalis</i>
<i>Eutripichthys vacha</i>	<i>Neoprostonia garuai</i>
	<i>Bychowskeylla gharuai, B. gomitia, B. indica,</i>
	<i>B. vacha</i>
	<i>Ancylodiscoides vachi</i>
	<i>Ancylodiscoides pangasi</i>
	<i>Bifurcohaptor indicus</i>
	<i>Silurodiscoides siamensis</i>
	<i>Bychowskeylla bychowskyii</i>
	<i>Silurodiscoides sp. I</i>
	<i>Silurodiscoides sp. II</i>
	<i>Dactylogyrus multispiralis</i>
	<i>Bychowskeylla cauveryi</i>
	<i>Sprostonia asiatica</i>
	<i>Sprostonia sp.</i>

Family Bagridae

<i>Mystus tengara</i>	<i>Byfurcohaptor minutam</i>
	<i>Cornudiscoides heterotylus, C. microtylus,</i>
	<i>C. megalorchis</i>

<i>M. seenghala</i>	<i>Dactylogyrus seenghali</i> <i>Bifurcohaptor giganticus</i> , <i>B. indicus</i> , <i>B. minutum</i> <i>Hamatopenduncularia sohani</i> <i>Silurodiscoides pusillus</i> , <i>S. parvulus</i> <i>Cornudiscooides vittati</i> , <i>C. raipurensis</i> , <i>C. proximus</i> , <i>C. geminus</i> <i>Ancylodiscooides jaini</i>
<i>M. keletius</i> (<i>Micrones keletius</i>)	
<i>M. gulio</i>	<i>Neomurraytrema tengrae</i>
<i>M. aor</i>	<i>Indocotylus microcanthus</i> <i>Mizelleus prostorchidis</i> <i>Ancylodiscooides macracanthus</i> <i>Silurodiscoides aori</i> <i>Dactylogyrus riti</i> <i>Bifurcohaptor hemalatae</i>
<i>Rita rita</i>	<i>Bifurcohaptor son</i>
Family Sisoridae	
<i>Bagarius bagarius</i>	<i>Quadricanthus kobiensis</i> <i>Bychowskyella tchangi</i>
Family Clariidae	
<i>Clarias batrachus</i>	<i>Gyrodactylus malmbergi</i>
Family Heteropneustidae	
<i>Heteropneustes fossilis</i>	
Order Perciformes	
Family Mastacembelidae	
<i>Mastacembelus armatus</i>	<i>Urocleidus heter anchorus</i>
<i>M. pancala</i>	<i>U. raipurensis</i>
<i>Rhyacobdella aculeata</i>	<i>Haplocleidus rhynchobdelli</i>
(<i>Macrognathus aculeatus</i>)	<i>Ancyrocephalus bam</i>
Family Anabantidae	
<i>Anabas testudineus</i>	<i>Heteroncleidus anabasi</i>
<i>Colisa fasciata</i>	<i>Heteroncleidus colisai</i> , <i>H. buschkieli</i> , <i>H. bangadeshi</i>
Family Gobidae	
<i>Glossogobius giuris</i>	<i>Dactylogyrus pharyngoccephalus</i> , <i>D. gobii</i> , <i>D. ndicus</i> , <i>D. glossogobii</i> , <i>Neodactylogyrus chandrai</i> <i>Glossodactylogyrus bangadeshi</i>
Family Centropomidae	
<i>Chanda nama</i>	<i>Ancyrocephalus ambassi</i> <i>Silurodactylogyrus chandai</i>
Family Cichlidae	
<i>Oreochromis niloticus</i>	<i>Cichlidogyrus bangadeshi</i> , <i>C. chauhanii</i> <i>Actinocleidus mulleri</i>
<i>O. mossambicus</i>	<i>Oreochromogyrus mymensinghi</i>
<i>Eutroplus suratensis</i>	<i>Haplocleidus globodiscus</i> , <i>Ochiodiscus pterodiscooides</i> , <i>Ancyrocephalus etropli</i>

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