

MISCELLANEOUS PUBLICATION
OCCASIONAL PAPER NO. 41

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**Index-Catalogue and Bibliography of
Protozoan parasites from Indian Fishes**

By
N. C. Nandi
R. Nandi
A. K. Mandal

Issued by the Director
Zoological Survey of India, Calcutta

**RECORDS
OF THE
ZOOLOGICAL SURVEY OF INDIA**

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N. C. NANDI

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A. K. MANDAL



सत्यमेव जयते

Edited by the Director, Zoological Survey of India

1983

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INDEX-CATALOGUE AND BIBLIOGRAPHY OF PROTOZOAN PARASITES FROM INDIAN FISHES

By

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INTRODUCTION

In keeping with the necessity for an up to date reference tool on the protozoan parasites of Indian fishes, necessary matters are complied with an honest effort to provide impetus, hopefully, for greater awareness on the parasites and disease of fishes and for further specific research on the subject. The coverage extends beyond taxonomy to other fields directly referable to fish-inhabiting protozoa. While doing so we have looked through the Zoological Records up to 1974 and the Biological Abstracts as were available in Calcutta Libraries up to the year 1979. We would request to the readers to invite our attention to possible errors and omissions so that, subsequently, an improved and up dated catalogue can be published.

In spite of our best efforts, some references could not have been consulted in original and cited from Wenyon (1926) and Bhatia (1938). But we have made it a point to arrange and classify, both protozoan parasites and the host fishes, according to their systematic position. In the species-catalogue originally cited host names are given while in the host-catalogue the same have been put within parenthesis if found incorrect, under valid host names. Thus one would get both valid and originally cited host name by going through both species and host catalogues.

The catalogue is prepared with a view to present a technical monograph on the subject afterwards. The task ahead is vast. We shall be obliged to receive reprints, materials and/or informations from fellow colleagues and researchers in this fields. Infact, we are in need of some more materials (protozoan specimens in particular) to start with the monograph and commenting on them, their prevalence, pathology and host-parasite relationship.

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** *nee* MANDAL

SPECIES CATALOGUE

- Phylum : PROTOZOA
 Subphylum : SARCOMASTIGOPHORA
 Superclass : MASTIGOPHORA
 Class : PHYTOMASTIGOPHOREA
 Order : EUGLENIDA
 Family : EUGLENIDAE
 Genus : **Phacus** Dujardin
- Phacus* sp. *Tilapia mossambica* Choudhury and Chandra (1972)
- Family : BODONIDAE
 Genus : **Bodomonas** Davis, 1947
- Bodomonas rebae* Tripathi, 1954. *Cirrhina reba* Tripathi (1954)
Cirrhina mrigala „
Labeo rohita „
Catla catla „
- Class : ZOOMASTIGOPHOREA
 Order : POLYMASTIGIDA
 Family : TETRAMITIDAE
 Genus : **Costia** Lecerque, 1890
- Costia necatrix* Hennequy Indian carps Gopalakrishnan (1964)
- Family : HEXAMITIDAE
 Genus : **Hexamita** Dujardin, 1938
- Hexamita* sp. *Glossogobius giuris* Qadri (1962a)
- Order : KINETOPLASTIDA
 Family : CRYPTOBIIDAE
 Genus : **Cryptobia** Leidy, 1846
- Cryptobia indica* Mandal *Mystus vittatus* Mandal (1979a)
- Family : TRYPANOSOMATIDAE
 Genus : **Trypanosoma** Gruby, 1843
- Trypanosoma anabasi* Mandal, 1975 *Anabas testudineus* Mandal (1975)
T. armeti Mandal, 1975 *Mastacembelus armatus* Mandal (1975)
T. batai Joshi, 1978 *Labea bata* Joshi (1978)
T. batrachi Qadri, 1962 *Clarias batrachus* Qadri (1962f)

- (Syn. *T. clariae* var. *batrachi*)
- T. bengalensis* Mandal, 1978
- T. cancili* Mandal, 1978
- T. choudhuryi* Mandal, 1976
- T. danilewski* var. *saccobranchi*
Qadri, 1962
- T. elongatus* Ray Chaudhuri and
Misra, 1973
- T. gachuii* Misra, Chandra and
Chaudhury, 1973
- T. maguri* Tandon and Joshi, 1973
- T. mrigali* Joshi, 1976
- T. mukundi* Ray Chaudhuri and
Misra, 1973
- T. pancali* Mandal, 1975
- T. punctati* Hasan and Qasim, 1962
- T. seenghali* Joshi, 1976
- T. stigmai* Joshi, 1978
- T. striati* Qadri, 1955
- T. tandoni* Mandal, 1980
- T. vittati* Tandon and Joshi, 1973
- T. sp.*
- Mystus bleekeri* de Mello and
Valles (1936a)
Mandal (1978c)
- Xenentodon cancila* Mandal (1978b)
- Tilapia mossambica* Mandal (1976)
- Heteropneustes*
fossilis Qadri (1962f)
- Ophicephalus*
punctatus Ray Chaudhuri
and Misra (1973)
- Ophicephalus*
gachua Misra, Chandra
and Chaudhury
(1973)
- Clarias batrachus* Tandon and
Joshi (1973)
- Cirrhina mrigala* Joshi (1976)
- Heteropneustes*
fossilis Ray Chaudhuri
and Misra
(1973)
- Mastacembelus*
pancalus Mandal (1975)
- Ophicephalus*
punctatus Hasan and
Qasim (1962)
- Mystus seenghala* Joshi (1976)
- Puntius stigma* Joshi (1978)
- Ophicephalus*
striatus Qadri (1955,
1962g)
- Wallago attu* Mandal (1980)
- Mystus vittatus* Tandon and
Joshi (1973)
- Gobius giurii* Castellani and
Willey (1905),
Patton (1908)
cited from
Wenyon (1926)
- Trichogaster*
fasciatus Lingard (1904)
- Macrones*
seenghala Lingard (1904)
Tandon and
Chandra
(1977 b)
- Barbus carnaticus* Lingard (1904)
- Ophiocephalus* Lingard (1904)

<i>T. sp.</i>	<i>striatus</i>	Qadri (1951a)
	<i>Channa punctatus</i>	Tandon and Joshi (1974) ; Joshi (1979)
	<i>Clarias batrachus</i>	Tandon and Chandra (1977b) Tandon and Joshi (1974) ; Joshi (1979)
	<i>Notopterus notopterus</i>	Joshi (1979)
	<i>Puntius stigma</i>	„
	<i>Labeo bata</i>	„
	<i>Mystus aor</i>	„
	<i>Channa gachua</i>	Joshi (1979)
	<i>Cirrhina mrigala</i>	Tandon and Chandra (1977 b) ; Joshi (1979)
	<i>Mastacembelus armatus</i>	Tandon and Chandra (1977 b) ; Joshi (1979)
	<i>Mystus seenghala</i>	Tandon and Chandra ; Tandon and Joshi (1974) ; Joshi (1979)
	<i>Wallago attu</i>	Tandon and Chandra (1977b) ; Joshi (1979)
	<i>Aorichthys aor</i>	Mandal (Ms.)
	<i>Heteropneustes fossilis</i>	Joshi and Dabrol (1979) ; Tandon and Joshi (1974) ; Joshi (1979)
	<i>Nandus nandus</i>	Mukherjee and Halдар (1979)
	<i>Mystus aor</i>	Joshi (1979)
	<i>Channa gachua</i>	„ „

Superclass : SARCODINA
 Class : PIROPLASMEA
 Order : PIROLASMIDA
 Family : DACTYLOSOMATIDAE

Genus : **Babesiosoma** Jakowska and Nigrelli, 1956

<i>Babesiosoma harenii</i> Haldar, Misra and Chakravarty, 1971	<i>Ophicephalus punctatus</i>	Misra, Haldar and Chakravarty (1970) Haldar, Misra and Chakra- varty (1971).
<i>B. ophicephali</i> Misra, Haldar and Chakravarty, 1969	<i>Ophicephalus punctatus</i>	Misra, Haldar and Chakravarty (1969 b)

Genus : **Dactylosoma** Labbé, 1894

<i>Dactylosoma</i> sp.	<i>Mystus vittatus</i>	Mandal (1979a)
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Subphylum : SPOROZOA
 Class : TELOSPOREA
 Order : EUCOCCIDA
 Family : EIMERIIDAE

Genus : **Eimeria** Schneider, 1875

<i>Eimeria ambassi</i> Patnaik and Acharya, 1972	<i>Barbus anabassis</i>	Patnaik and Acharya (1972)
<i>Eimeria harpodoni</i> Setna and Bana, 1935	<i>Harpodon nehereus</i>	Setna and Bana (1935)
<i>E. notopteri</i> Chakravarty and Kar, 1944	<i>Notopterus notopterus</i>	Chakravarty and Kar (1944)
<i>E. southwelli</i> Halwani, 1930	<i>Aetobatis narinari</i> (Indian Ocean, Ceylon)	Halwani (1930a, b)
<i>E. zygaenae</i> Mandal and Chakravarty, 1965	<i>Zygaena blochii</i>	Chakravarty and Mandal (1961) ; Mandal and Chakravarty (1965)
<i>E.</i> sp.	<i>Batrachus grunniens</i>	Setna and Bana (1935)
	<i>Colia dussumieri</i>	„
	<i>Epinephelus tauvina</i>	„

<i>E. sp.</i>	<i>E. diacanthus</i>	„
	<i>Engraulis mystax</i>	„
	<i>Otolithus ruber</i>	„
	<i>Plotossus canius</i>	„
	<i>Sillago sihama</i>	„
	<i>Trichurus savala</i>	„
	<i>Harpodon nehereus</i>	Setna (1933)
	<i>Glossogobius giuris</i>	Mukherjee and Haldar (1979a)

Family : HAEMOGREGARINIDAE

Genus : **Haemogregarina** Danilewsky, 1885

<i>Haemogregarina thyrsoideae</i>	<i>Thyrsoidea macrurus</i>	de Mello and Valles de Mello and Valles, 1936
<i>Haemogregarina sp.</i>	<i>Trichogaster fasciatus</i>	Plimmer (1914) cited from Wenyon (1926)

Family : PLASMODIIDAE

Genus <i>Mesnilium</i> Misra, Haldar and Chakravarty, 1972	<i>Ophicephalus punctatus</i>	Misra, Haldar and Chakravarty (1972)
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Subphylum : CNIDOSPORA

Class : MYXOSPORIDEA

Order : MYXOSPORIDA

Suborder : UNIPOLARINA

Family : CERATOMYXIDAE

Genus : **Ceratomyxa** Thelohan, 1892

<i>Ceratomyxa hilsae</i> Chakra- varty, 1939	<i>Hilsa ilisha</i>	Chakravarty (1939)
<i>C. gobioidesi</i> Chakravarty, 1939	<i>Odontamblyopus rubicundus</i>	Chakravarty (1939)
<i>C. sagarica</i> Choudhury and Nandi, 1973	<i>Boleophthalmus boddaerti</i>	Choudhury and Nandi (1973b)
<i>C. scatophagi</i> Chakravarty, 1943	<i>Scatophagus argus</i>	Chakravarty (1943)
<i>C. sp.</i>	<i>Carcharinus bleekeri</i>	Setna (1942)
	<i>C. limbatus</i>	Setna (1942)
	<i>C. melanopterus</i>	„

<i>C. sp.</i>	<i>C. menisorrah</i>	Setna (1942)
	<i>C. pleurotaenia</i>	„
	<i>Cestraction blochii</i>	„
	<i>C. zygaena</i>	„
	<i>Hemigaleus balfouri</i>	„
	<i>Hypoprion macloti</i>	„
	<i>Pristis cuspidatus</i>	„
	<i>Rhynchobatus djeddensis</i>	„
	<i>Scoliodon palasorrah</i>	„
	<i>S. sorrakowah</i>	„
	<i>S. walbeehmi</i>	„
	<i>S. sp.</i>	„
	<i>Gobiodes rubicundus</i>	Ray (1933 b)
	<i>Trichogaster fasciatus</i>	„
	<i>Macrones gulio</i>	„

Genus : **Gyrospora** Qadri, 1962

<i>Gyrospora crucifilia</i> Qadri, 1962	<i>Labeo fimbriatus</i>	Qadri (1962 c)
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Genus : **Leptotheca** Thelohan, 1895

<i>Leptotheca asymmetrica</i> Lalitha Kumari, 1969	<i>Osteochilus neilli</i>	Lalitha Kumari (1969)
<i>Leptotheca latesi</i> Chakra- varty, 1943	<i>Lates calcarifer</i>	Chakravarty (1943)
<i>L. macronesi</i> Chakra- varty, 1943	<i>Macrones gulio</i>	Chakravarty (1943)
<i>L. sp.</i>	<i>Carcharinus limbatus</i>	Setna (1942)

Family : MYXOSOMATIDAE

Genus : **Myxosoma** Thelohan, 1892

<i>Myxosoma andhrae</i> Lalitha Kumari, 1969	<i>Ophicephalus punctatus</i>	Lalitha Kumari (1969)
<i>M. hydrabadense</i> Lalitha Kumari, 1969	<i>Barbus pinnauratus</i>	Lalitha Kumari (1969)
<i>M. indiae</i> Lalitha Kumari, 1969	<i>Barbus sarana</i>	Lalitha Kumari (1969)
<i>M. intestinalis</i> Nara- simhamurti, 1970	<i>Mugil waigensis</i>	Narasimhamurti (1970)
<i>M. lairdi</i> Narasimha- murti, and Kalavati, 1979	<i>Liza macrolepis</i>	Narasimhamurti and Kalavati (1979 c)

Family : CHLOROMYXIDAE

Genus : **Chloromyxum** Mingazzini, 1890

<i>Chloromyxum amphipnoui</i> Ray, 1933	<i>Amphipnous kuchia</i>	Ray (1933 b)
	<i>Amblypharyngodon mola</i>	Chakravarty and Basu (1948)
	<i>Heteropneustes fossilis</i>	Chakravarty (1943)
<i>C. hoarei</i> Lalitha Kumari, 1969	<i>Labeo nigripinnis</i>	Lalitha Kumari (1969)
<i>C. mrigalae</i> Tripathi, 1952	<i>Cirrhina mrigala</i>	Tripathi (1952)
<i>C. sp.</i>	<i>C. reba</i>	„
	<i>Carcharinus bleekeri</i>	Setna (1942)
	<i>C. limbatus</i>	„
	<i>C. melanopterus</i>	„
	<i>Cestraction blochii</i>	„
	<i>C. zygaena</i>	„
	<i>Chiloscyllium griseum</i>	„
	<i>Hemigaleus balfouri</i>	„
	<i>Pristis cuspidatus</i>	„
	<i>Rhynchobatus djeddensis</i>	„
	<i>Rhynotera javanica</i>	„
	<i>Scoliodon palasorrah</i>	„
	<i>S. sorrakowah</i>	„
	<i>S. walbeehmi</i>	„
	<i>S. sp.</i>	„
	<i>Trygon bleekeri</i>	„
	<i>Xenentodon cancila</i>	Tripathi (1952)
	<i>Ophicephalus punctatus</i>	Haldar and Mukherjee (1978)
	<i>Amphinous kuchia</i>	Ray (1933 b)

Genus : **Kudoa** Meglitsch, 1947

<i>Kudoa chilkaensis</i> Tripathi, 1952	<i>Strongylura strongylura</i>	Tripathi (1952)
<i>K. sphyraeni</i> Narasimhamurti and Kalavati, 1979	<i>Sphyraena jello</i>	Narasimhamurti and Kalavati (1979 d)
<i>K. tetraspora</i> Narasimhamurti and Kalabati, 1979	<i>Mugil cephalus</i>	Narasimhamurti and Kalabati (1979a)

Family : MYXOBOLIDAE

Genus : *Myxobolus* Bütschli, 1882

<i>Myxobolus aligahrensis</i>	<i>Ophicephalus punctatus</i>	Bhatt and Siddiqui (1964)
Bhatt and Siddiqui, 1964		
<i>M. ampullaceus</i>	<i>Barbus kolus</i>	Lalitha Kumari (1969)
Lalitha Kumari, 1969		
<i>M. barbi</i>	<i>Barbus ticto</i>	Tripathi (1952)
Tripathi, 1952		
<i>M. batae</i>	<i>Labeo bata</i>	Karamchandani (1970)
Karamchandani, 1970		
<i>M. bengalensis</i>	<i>Catla catla</i>	Chakravarty and Basu 1948
Chakravarty and Basu, 1948		
<i>M. branchialis</i>	<i>Barbus sarana</i>	Tripathi (1952)
Tripathi, 1952		
<i>M. calbasui</i>	<i>Labeo calbasu</i>	Chakravarty (1939)
Chakravarty, 1939		
	<i>L. rohita</i>	„
	<i>Cirrhina mrigala</i>	„
<i>M. catlae</i>	<i>Catla catla</i>	Chakravarty (1943)
Chakravarty, 1943		
	<i>Cirrhina mrigala</i>	„
	<i>Labeo rohita</i>	„
<i>M. clarii</i>	<i>Clarius batrachus</i>	Chakravarty (1943) ; Lalitha Kumari (1969)
Chakravarty, 1943		
<i>M. eeli</i>	<i>Mastacembelus armatus</i>	Mandal and Nair (1975)
Mandal and Nair, 1975		
<i>M. indicum</i>	<i>Cirrhina mrigala</i>	Tripathi (1952)
Tripathi, 1952		
<i>M. koli</i>	<i>Barbus kolus</i>	Lalitha Kumari (1969)
Lalitha Kumari, 1969		
<i>M. mastacembeli</i>	<i>Mastacembelus armatus</i>	Qadri (1965)
Qadri, 1965		
<i>M. mrigalae</i>	<i>Cirrhina mrigala</i>	Chakravarty (1939) ; Sarkar (1946)
Chakravarty, 1939		
<i>M. nodularis</i>	<i>Rasbora daniconius</i>	Southwell and Prashad (1918)
Southwell and Prashad, 1918		

<i>M. ophicephali</i> Bhatt and Siddiqui, 1964	<i>Ophicephalus punctatus</i>	Bhatt and Siddiqui (1964)
<i>M. osmaniae</i> Lalitha Kumari, 1969	<i>Barbus panjabensis</i>	Lalitha Kumari (1969)
<i>M. pinnaurati</i> Lalitha Kumari, 1969	<i>Barbus pinnauratus</i>	Lalitha Kumari (1969)
<i>M. potaili</i> Lalitha Kumari, 1969	<i>Labeo potail</i>	Lalitha Kumari (1969)
<i>M. psilorhynchi</i> Lalitha Kumari, 1969	<i>Psilorhynchus balitora</i>	Lalitha Kumari (1969)
<i>M. punctatus</i> Ray Chaudhuri and Chakravarty, 1970	<i>Ophicephalus punctatus</i>	Ray Choudhury and Chakravarty (1970) ; Mukherjee and Haldar (1979 a)
<i>Myxobolus seshadrii</i> Lalitha Kumari, 1968	<i>Labeo fimbriatus</i>	Lalitha Kumari (1968)
<i>M. sphericum</i> Tripathi, 1952	<i>Cirrhina mrigala</i>	Tripathi (1952)
<i>M. sp.</i>	<i>Rasbora daniconius</i> <i>Cirrhina mrigala</i> <i>Katla katla</i> <i>Clarias batrachus</i> <i>Channa punctatus</i> <i>Esomus sp.</i>	Southwell (1915) Ray (1933 b) Ray (1933 b) Ray (1933 b) Malhotra <i>et al.</i> (1979) Srivastava (1975)

Genus : **Henneguya** Thelohan, 1892

<i>Henneguya jubili</i> Qadri, 1969	<i>Notopterus notopterus</i>	Qadri (1969)
<i>H. lateri</i> Tripathi, 1952	<i>Lates calcarifer</i>	Tripathi (1952)
<i>H. notopteriae</i> Qadri, 1965	<i>Notopterus notopterus</i>	Qadri (1965)
<i>H. ophicephali</i> Chakravarty, 1939	<i>Ophicephalus punctatus</i>	Chakravarty (1939)
<i>H. otolithi</i> Ganapati, 1941	<i>Otolithus ruber</i> <i>O. maculatus</i>	Ganapati (1938, 1941) „
<i>H. qadrii</i> Lalitha Kumari, 1965	<i>Ophicephalus gachua</i>	Lalitha Kumari (1965, 1969)

<i>H. singhi</i> Lalitha Kumari, 1969	<i>Notopterus osmani</i>	Lalitha Kumari (1969)
<i>H. waltirensis</i> Narasi- mhamurti and Kalavati, 1975	<i>Ophiocephalus punctatus</i>	Narasimhamurti and Kalavati (1975)
<i>H. zahoori</i> Bhatt and Siddiqui, 1964	<i>Ophicephalus punctatus</i>	Bhatt and Siddiqui (1964)
<i>H. sp.</i>	<i>Ophicephalus punctatus</i>	Ray (1933 b)

Genus : **Myxobilatus** Davis, 1944

<i>Myxobilatus masta- cembeli</i> Qadri and Lalitha Kumari, 1965	<i>Mastacembelus armatus</i>	Qadri and Lalitha Kumari (1965)
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Genus : **Neohennequya** Tripathi, 1952

<i>Neohennequya tetraradiata</i> Tripathi, 1952	<i>Odontamblypus rubicundus</i>	Tripathi (1952)
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Genus : **Phlogospora** Qadri, 1962

<i>Phlogospora mysti</i> Qadri, 1962	<i>Mystus bleekeri</i>	Qadri (1962d)
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Genus : **Unicauda** Davis, 1944

<i>Unicauda basiri</i> Bhatt and Siddiqui, 1964	<i>Ophicephalus punctatus</i>	Bhatt and Siddiqui (1964)
<i>U. bengalensis</i> Ray Chaudhuri and Chakravarty, 1970	<i>Ophicephalus punctatus</i>	Ray Chaudhuri and Chakravarty (1970)
<i>U. bicornuata</i> Ray Chaudhuri and Chakravarty, 1970	<i>Ophicephalus punctatus</i>	Ray Chaudhuri and Chakravarty (1970)
<i>U. ophicephali</i> Tripathi, 1952	<i>Ophicephalus gachua O. punctatus</i>	Tripathi (1952) ,,

Family : THELOHANELLIDAE

Genus : **Thelohanellus** Kudo, 1933

<i>Thelohanellus andhrae</i> Qadri, 1962	<i>Labeo fimbriatus</i>	Qadri (1962 b) ; Lalitha Kumari (1969)
<i>T. batae</i> Lalitha Kumari, 1969	<i>Labeo bata</i>	Lalitha Kumari (1969)
<i>T. boggoti</i> Qadri, 1962	<i>Labeo boggot</i>	Qadri (1962 a, e) ; Lalitha Kumari (1969)
<i>T. calbasui</i> Tripathi, 1952	<i>Labeo calbasu</i>	Tripathi (1952)
<i>T. catlae</i> Chakravarty and Basu, 1948	<i>Catla catla</i>	Chakravarty and Basu (1948)
<i>T. chelae</i> Lalitha Kumari, 1969	<i>Chela bacaila</i>	Lalitha Kumari (1969)
<i>T. chrysopomati</i> Lalitha Kumari, 1969	<i>Barbus chrysopoma</i> <i>Barbus sarana</i>	Lalitha Kumari (1969) ,,
<i>T. gangeticus</i> Tripathi, 1952	<i>Chela bacaila</i>	Tripathi (1952)
<i>T. mrigalae</i> Tripathi, 1952	<i>Cirrhina mrigala</i>	Tripathi (1952)
<i>T. potaili</i> Lalitha Kumari, 1969	<i>Labeo potail</i>	Lalitha Kumari (1969)
<i>T. qadri</i> Lalitha Kumari, 1969	<i>Labeo potail</i>	Lalitha Kumari (1969)
<i>T. rohita</i> (Southwell and Prashad 1918)	<i>Labeo rohita</i> <i>Labeo bata</i>	Southwell and Prashad (1918) ; Chakravarty (1943) Chakravarty and Basu (1948)
<i>T. rodgii</i> Hagargi, Kundu and Haldar, 1979	<i>Labeo calbasu</i>	Hagargi, Kundu and Haldar (1979)
<i>T. seni</i> Southwell and Prashad, 1918	<i>Catla catla</i> <i>Labeo rohita</i>	Southwell and Prashad (1918) ; Chakravarty and Basu (1948) Southwell and Prashad (1918)
<i>T. shortti</i> Qadri, 1967	<i>Labeo fimbriatus</i>	Qadri (1967)

Suborder : BIPOLARINA

Family : MYXIDIIDAE

Genus : *Myxidium* Bütschli, 1882

<i>Myxidium aori</i> Lalitha Kumari, 1969	<i>Macrones aor</i>	Lalitha Kumari (1969)
<i>Myxidium boddaerti</i> Choudhury and Nandi, 1973	<i>Boleophthalmus boddaerti</i>	Choudhury and Nandi (1973 b)
<i>M. glossogobi</i> Chakravarty, 1939	<i>Glossogobius giuris</i>	Chakravarty (1939)
<i>M. heteropneusti</i> Chakravarty, 1943	<i>Heteropneustes fossilis</i>	Chakravarty (1943)
<i>M. leiberkiihni</i> Bütschli, 1881	<i>Anabas testudineus</i> <i>Boleophthalmus boddaerti</i>	Chakravarty (1943) Choudhury and Nandi (1973 b)
<i>M. procerum</i> var. <i>calcariferi</i> Chakravarty, 1943	<i>Lates calcarifer</i>	Chakravarty (1943)
<i>M. sp.</i>	<i>Ophicephalus punctatus</i> <i>Clarias batrachus</i> <i>Ophiocephalus punctatus</i> <i>Saccobranchus fossilis</i>	Haldar and Mukherjee (1978) Ray (1933) ,, ,,

Genus : *Sphaeromyxa* Thelohan, 1892

<i>Sphaeromyxa pultai</i> Tripathi	<i>Odontamblyopus rubicundus</i>	Tripathi (1952)
<i>S. theraponi</i> Tripathi, 1952	<i>Therapon jarbua</i>	Tripathi (1952)

Genus : *Zschokkella* Auerbach, 1910

<i>Zschokkella fossilae</i> Chakravarty, 1943	<i>Heteropneustes fossilis</i>	Chakravarty (1943)
<i>Z. ilishae</i> Chakravarty, 1943	<i>Hilsa ilisha</i>	Chakravarty (1943)
<i>Z. labeonis</i> Lalitha Kumari, 1969	<i>Labeo nigripinnis</i>	Lalitha Kumari (1969)
<i>Z. ophicephali</i> Lalitha Kumari, 1969	<i>Ophicephalus striatus</i>	Lalitha Kumari (1969)
<i>Z. sp.</i>	<i>Saccobranchus fossilis</i>	Qadri (1951a)

Class : MICROSPORIDEA
 Order : MICROSPORIDA
 Suborder : MONOCNIDINA
 Family : NOSEMATIDAE
 Genus : **Nosema** Nageli, 1857

Nosema sauridae Narasi- *Sanrida tumbil* Narasimhamurti and
 mhamurti and Kala- Kalavati (1972)
 vati, 1972

N. sp. *Negalaspis calrdyla* Narasimhamurti and
 Sandeep (1979)

Genus : **Pleistophora** Gurley, 1893

Pleistophora sauridae *Saurida tumbil* Narasimhamurti and
 Narasimhamurti, and Kalavati (1972)
 Kalavati 1972

P. carangoidi Nara- *Carangoides malabaricus* Narasimhamurti and
 simhamurti and Sonabai (1977)
 Sonabai, 1977

P. sp. *Dussumeria acuta* Narasimhamurti and
 Kalavati (1979 b)

Subphylum : CILIOPHORA

Class : CILIATA

Subclass : HOLOTRICHA

Order : GYMNOSTOMATIDA

Suborder : CYRTOPHORINA

Family : CHLAMYDODONTIDAE

Genus : **Chilodonella** Strand, 1926

Chilodonella sp. *Mystus aor* Devraj (1971)

Order : ASTOMATIDA

Family : ANOPLOPHRYIDAE

Genus : **Kofoidella** Cepede, 1910

Kofoidella aplocheilusi *Aplocheilus melastigma* Rao (1979)
 Rao, 1979

Order : HYMENOSTOMATIDA
 Suborder : TETRAHYMENINA
 Family : OPHRYOGLENIDAE
 Genus : **Ichthyophthirius** Fouquet, 1876

<i>Ichthyophthirius</i>	<i>Xiphophorus helleri</i>	Tripathi (1955)
<i>multifilis</i>		
	<i>Cirrhina mrigala</i>	„
	<i>Labeo bata</i>	„
<i>I. sp.</i>	Major carps	Tripathi (1955) ;
	or	
	Indian carps	Gopalakrishnan (1964)
	<i>Cirrhina mrigala</i>	Srivastava (1975)
	<i>Cyprinus carpio</i>	„
	<i>Labeo rohita</i>	„
	Brown trout	Gopalakrishnan (1964)
	Rainbow trout	„

Family : TETRAHYMENIDAE

Genus : **Tetrahymena** Furgason, 1940

<i>Tetrahymena pyriformis</i>	<i>Mystus aor</i>	Devraj (1971)
(Ehrenberg, 1880)		
	<i>Callichorous bimaculatus</i>	„
	<i>Pangasius pangasius</i>	„
	<i>Wallago attu</i>	„

Subclass : PERITRICHIA

Order : PERITRICHIDA

Suborder : SESSILINA

Family : VORTICELLIDAE

Genus : **Zoothamnium** Bory

<i>Zoothamnium horai</i>	<i>Mugil tade</i>	Khajuria and Pillay
Khajuria and Pillay		(1952)
(1952)		
<i>Z. sp.</i>	<i>Acentrogobius neilli</i>	Jones and Job (1938)
	<i>Therapon jarbua</i>	Job (1938, cited from
		Jones and Job, 1938)

Family : SCYPHIDIIDAE

Genus : **Scyphidia** Dujardin, 1841

Scyphidia pyriformis *Labeo rohita* Tripathi (1954)
Tripathi, 1954

Catla catla „

Cirrhina mrigala „

C. reba „

Suborder : MOBILINA

Family : URCEOLARIIDAE

Genus : **Trichodina** Ehrenberg, 1830

Trichodina indica *Ambasis nama* Tripathi (1954)
Tripathi, 1954

A. ranga „

Amblypharyngodon mola „

Catla catla „

Chela bacaila „

Cirrhina mrigala „

C. reba „

Labeo calbasu „

L. rohita „

Ophicephalus gachua „

O. punctatus „

Barbus carnaticus Devraj (1971)

Mystus aor „

Ophicephalus marulius „

T. sp. *Ophicephalus punctatus* Halder and Mukherjee
(1978)

Sphaeroides oblongus Choudhury and Nandi
(1973 a)

Tilapia mossambica Choudhury and Chandra
(1972)

Genus : **Cylochaeta** Jackson

Cylochaeta sp. Pond fish Hora and Pillay (1962)

Subclass : SPIROTRICHA

Order : HETEROTRICHIDA

Family : NYCTOTHERIDAE

Genus : *Nyctotherus* Leidy, 1849

<i>Nyctotherus barbusi</i> Devraj, 1971	<i>Barbus carnaticus</i>	Devraj (1971)
	<i>B. hexagonolepis</i>	„
	<i>B. sarana</i>	„
<i>N. pangasia</i> Tripathi, 1954	<i>Pangasius pangasius</i>	Tripathi (1954)

Family : NATHELLIDAE

Genus : *Nathella* Sinha, 1953

<i>Nathella kumari</i> Singh, 1953	<i>Mystus cavasius</i>	Singh (1953)
<i>N. rayii</i> Singh, 1953	<i>Mystus cavasius</i>	Singh (1953)

HOST CATALOGUE

Class : CHONDRICHTHYES

Subclass : ELASMOBRANCHII

Order : LAMNIFORMES

Family : ORECTOLOBIDAE

<i>Chiloscyllium griseum</i> Müller & Henle	<i>Chloromyxum</i> sp. (Gall bladder)	Setna (1942)
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Family : CARCHARHINIDAE

<i>Carcharhinus limbatus</i> (Müller & Henle)	<i>Ceratomyxa</i> spp. (3 spp.) (All from gall bladder)	Setna (1942)
(= <i>Carcharinus limbatus</i>)	<i>Chloromyxum</i> sp. (Gall bladder)	„
	<i>Leptothecca</i> sp. (Gall bladder)	„
<i>Carcharhinus melano-</i> <i>pterus</i> (Quoy & Gaimard)	<i>Ceratonyxa</i> sp. (Gall bladder)	Setna (1942)
(= <i>Carcharinus melano-</i> <i>pterus</i>)	<i>Chloromyxum</i> sp. (Gall bladder)	„

<i>Carcharhinus menisorrh</i> (Müller & Henle) (= <i>Carcharinus menisorrh</i> h)	<i>Ceratomyxa</i> spp. (2 spp) (Both from gall bladder)	Setna (1942)
<i>Carcharhinus pleurotaenia</i> (Bleeker) (= <i>Carcharinus pleurotaenia</i>)	<i>Ceratomyxa</i> sp. (Gall bladder)	Setna (1942)
<i>Carcharhinus sorrah</i> (Müller & Henle) (= <i>Carcharinus bleekeri</i>)	<i>Ceratomyxa</i> spp. (2 spp.) (Gall bladder) <i>Chloromyxum</i> sp. (Gall bladder)	Setna (1942) ,, ,,
<i>Hemigaleus balfouri</i> Day	<i>Ceratomyxa</i> spp. (2 spp.) (Both from gall bladder) <i>Chloromyxum</i> sp. (Gall bladder)	Senta (1942) Setna (1942)
<i>Hypoprion macloti</i> (Müller & Henle)	<i>Ceratomyxa</i> spp. (2 spp.) (Both from gall bladder)	Setna (1942)
<i>Rhizoprionodon acutus</i> (Rüppell) (= <i>Scoliodon walbeehmi</i>)	<i>Ceratomyxa</i> spp. (2 spp). (Both from gall bladder) <i>Chloromyxum</i> sp. (Gall bladder)	Setna (1942) ,,
<i>Rhizoprionodon oligolinx</i> Springer (= <i>Scoliodon palasorrh</i>)	<i>Ceratomyxa</i> sp. (Gall bladder) <i>Chloromyxum</i> sp. (Gall bladder)	Setna (1942) ,,
<i>Scoliodon laticaudus</i> Müller & Henle (= <i>Scoliodon sorrakowah</i>)	<i>Ceratomyxa</i> sp. (Gall bladder) <i>Chloromyxum</i> sp. (Gall bladder) <i>Leptotheca</i> sp. (Kidney)	Setna (1942) ,, ,,
<i>Scoliodon</i> sp.	<i>Ceratomyxa</i> sp. (Gall bladder) <i>Chloromyxum</i> sp. (Gall bladder)	Setna (1942) Setna (1942)

Family : SPHYRNIDAE

Sphyrna blochii (Cuvier) *Eimeria zygaena* Chakravarty and Mandal
(intestine) (1961) ; Mandal and
Chakravarty (1965)

[=*Cestraction blochii* ; *Ceratomyxa* spp. Setna (1942)
=*Cestraction zygaena* (3 spp ?) (All from
(néc Day) ; = *Zygaena* gall bladder)
blochii] *Chloromyxum* spp. „
(2 spp ?) (Gall bladder)

Order : RAJIFORMES

Family : PRISTIDAE

Pristis cuspidatus *Ceratomyxa* sp. Setna (1942)
Latham (Gall bladder)

Chloromyxum sp. „
(Gall bladder)

Family : RHINOBATIDAE

Rhynchobatus djeddensis *Ceratomyxa* sp. Setna (1942)
(Forskål) (Gall bladder)

Chloromyxum sp. „
(Gall bladder)

Family : DASYATIDAE

Dasyatis bleekeri (Blyth) *Chloromyxum* sp. Setna (1942)
(=*Trygon bleekeri*) (Gall bladder)

Family : MYLIOBATIDAE

Aetobatus narinari *Eimeria southwelli* Halwani (1930 a, b)
(Euphrasen) (Intestine)

(=*Aetobatis narinari*)

Rhynoptera javanica *Chloromyxum* sp. Setna (1942)
Müller & Henle (Gall bladder)

(=*Rhynoptera javanica*)

Class : OSTEICHTHYES

Subclass : ACTINOPTERYGII

Infra Class : TELEOSTEI

Order : ANGUILLIFORMES

Family : MURAENIDAE

Thyrsoidea macrura *Haemogregarina* de Mello and Valles
(Bleeker) *thyrsoideae* (Blood) (1936 b)

(=*Thyrsoidea macrurus*)

Order : CLUPEIFORMES

<i>Hilsa ilisha</i> (Hamilton)	<i>Ceratomyxa hilsae</i>	Chakravarty (1939)
	(Gall bladder)	
	<i>Zschokkella ilishae</i>	Chakravarty (1943)
	(Gall bladder)	
<i>Dussumeria acuta</i> Valenciennes	<i>Plistophora</i> sp. (Liver tissue)	Narasimhamurti and Kalavati (1979b)

Family : NOTOPTERIDAE

<i>Notopterus notopterus</i> (Pallas)	<i>Trypanosoma</i> sp.	Joshi (1979)
	(Blood)	
	<i>Eimeria notopteri</i>	Chakravarty and Kar (1944)
	(Intestine)	
	<i>Henneguya jubili</i>	Qadri (1969)
	(Gills)	
	<i>Henneguya notopteri</i>	Qadri (1965)
<i>Notopterus osmanii</i> (?)	<i>Henneguya singhi</i> (Gills)	Lalitha Kumari (1969)

Family : SYNODONTIDAE

<i>Saurida tumbil</i> (Bloch)	<i>Nosema sauridae</i>	Narasimhamurti and Kalavati (1972)
	(Visceral muscle)	
	<i>Plistophora sauridae</i>	Narasimhamurti and Kalavati (1972)
	(Visceral muscle)	

Family : ENGRAULIDAE

<i>Colia dussumieri</i> Valenciennes	<i>Eimeria</i> sp. (Intestine)	Setna and Bana (1935)
<i>Thryssa mystax</i> (Bloch and Schneider) (= <i>Engraulis mystax</i>)	<i>Eimeria</i> sp. (Intestine)	Setna and Bana (1935)

Order : SALMONIFORMES

Family : SALMONIDAE

Brown trout	Ichthyophthiriasis	Gopalakrishnan (1964)
Rainbow trout	Ichthyophthiriasis	Gopalakrishnan (1964)

Order : MYCTOPHIFORMES (SCOPELI FORMES)

Family : HARPADONTIDAE

<i>Harpadon nehereus</i> (Hamilton) (= <i>Harpodon nehereus</i>)	<i>Eimeria harpodoni</i> (Intestine)	Setna and Bana (1935)
	<i>Eimeria</i> sp. (Intestine)	Setna (1933)

Order : CYPRINIFORMES

Family : CYPRINIDAE

<i>Amblypharyngodon mola</i> (Hamilton)	<i>Chloromyxum</i> <i>amphinoui</i> (Gall bladder)	Chakravarty and Basu (1948)
	<i>Trichodona indica</i> (Gills and Skin)	Tripathi (1954)
<i>Barilius barna</i> (Hamilton)	<i>Sphaerospora</i> sp. (Under the scale) from Burma	Southwell and Prashad (1918)
<i>Catla catla</i> (Hamilton) (= <i>Katla katla</i>)	<i>Bodomonas rebae</i> (Gills)	Tripathi (1954)
	<i>Myxobolus bengalensis</i> (Gills)	Chakravarty and Basu (1948)
	<i>Myxobolus catlae</i> (Gills)	Chakravarty (1943)
	<i>Myxobolus</i> sp. (Gills)	Ray (1933 b) ; Srivastava (1975)
	<i>Thelohanellus catlae</i> (Gills)	Chakravarty and Basu (1948)
	<i>Thelohanellus seni</i> (Gills)	Southwell and Prashad (1918) ; Chakravarty and Basu (1948)
	<i>Trichodona indica</i> (Gills & Skin)	Tripathi. (1954)
	<i>Scyphidia pyriformis</i> (Skin, fins & gills)	Tripathi (1954)
<i>Cirrhina mrigala</i> (Hamilton)	<i>Bodomonas rebae</i> (Gills)	Tripathi (1954)
	<i>Trypanosoma mrigali</i> (Blood)	Joshi (1976)

<i>Cirrhina mrigala</i> (Hamilton)	<i>Trypanosoma</i> sp.	Tandon and Chandra (1977 b)
	(Blood)	
	<i>Chloromyxum mrigalae</i>	Tripathi (1952)
	(Gall bladder)	
	<i>Myxobolus calbasui</i>	Chakravarty (1939)
	(Gall bladder, liver, heart, gills, intestine, muscle etc.)	
	<i>Myxobolus catlae</i>	Chakravarty (1943)
	(Gills)	
	<i>Myxobolus indicum</i>	Tripathi (1952)
	(Muscles)	
	<i>Myxobolus mrigalae</i>	Chakravarty (1939) ; Sarkar (1946)
	(Scale)	
	<i>Myxobolus sphericum</i>	Tripathi (1952)
	(Scale)	
	<i>Myxobolus</i> sp.	Ray (1933 b)
(Liver)		
<i>Thelohanellus mrigalae</i>	Tripathi (1952)	
(Skin of the head)		
<i>Trichodina indica</i>	Tripathi (1954)	
(Gills & skin)		
<i>Scyphidia pyriformis</i>	Tripathi (1954)	
(Skin, fins & gills)		
<i>Ichthyophthirius</i>	Tripathi (1954)	
<i>multifilis</i> (expt.)		
<i>Ichthyophthirius</i> sp.	Srivastava (1975)	
<i>Cirrhina reba</i> (Hamilton)	<i>Bodomonas rebae</i>	Tripathi (1954)
	(Gills)	
	<i>Chloromyxum mrigalae</i>	Tripathi (1952)
	(Gall bladder)	
	<i>Trichodina indica</i>	Tripathi (1954)
(Gills & skin)		
<i>Scyphidia pyriformis</i>	Tripathi (1952)	
(Skin, fins & gills)		
<i>Cyprinus carpio</i>	<i>Ichthyophthirius</i> sp.	Srivastava (1975)
	<i>Esomus</i> sp.	Srivastava (1975)
Indian carps	<i>Costia necatrix</i>	Gopalakrishnan (1964)
	Ichthyophthiriasis	Gopalakrishnan (1964) ; Tripathi (1955)

<i>Labeo bata</i> (Hamilton)	<i>Trypanosoma batai</i> (Blood)	Joshi (1978)
	<i>Trypanosoma</i> sp. (Blood)	Joshi (1979)
	<i>Myxobolus batae</i> (Gills)	Karamchandani (1970)
	<i>Thelohanellus batae</i> (Gills)	Lalitha Kumari (1969)
	<i>Thelohanellus rohitae</i> (Gills)	Southwell and Prashad (1918) ; Chakravarty and Basu (1948)
	<i>Ichthyophthirius</i> <i>multifilis</i> (expt.)	Tripathi (1955)
<i>Labeo boggut</i> (Sykes)	<i>Thelohanellus boggoti</i> (Gills)	Qadri (1962 a, e) ; Lalitha Kumari (1969)
<i>Labeo calbasu</i> (Hamilton)	<i>Myxobolus calbasui</i> (Gall bladder)	Chakravarty (1939)
	<i>Thelohanellus calbasui</i> (Skin)	Tripathi (1952)
	<i>Thelohanellus rodgii</i>	Hagargi, Kundu and Halder (1979)
	<i>Trichodina indica</i> (Body, Gills)	Tripathi (1954)
<i>Labeo fimbriatus</i> (Bloch)	<i>Gyrospora crucifila</i> (Gills)	Qadri (1962 c)
	<i>Myxobolus seshadrii</i> (Gills)	Lalitha Kumari (1968)
	<i>Thelohanellus andhrae</i> (Gills)	Qadri (1962 b) ; Lalitha Kumari (1969)
	<i>Thelohanellus shortti</i>	Qadri (1967)
<i>Labeo nigripinnis</i> Day	<i>Chloromyxum hoareii</i> (Gall bladder)	Lalitha Kumari (1969)
	<i>Zschokkella labeonis</i> (Gall bladder)	Lalitha Kumari (1969)
<i>Labeo potail</i> (Sykes)	<i>Myxobolus potaili</i> (Gills)	Lalitha Kumari (1969)
	<i>Thelohanellus potaili</i> (Fins)	Lalitha Kumari (1969)
	<i>Thelohanellus qadrii</i> (Gills)	Lalitha Kumari (1969)

<i>Labeo rohita</i> (Hamilton)	<i>Bodomonas rebae</i> (Gills)	Tripathi (1954)
	<i>Myxobolus calbasui</i> (Gall bladder)	Chakravarty (1939)
	<i>Myxobolus catlae</i> (Gills)	Chakravarty (1943)
	<i>Thelohanellus seni</i> (Median and tail fin)	Southwell and Prashad (1918)
	<i>Thelohanellus rohita</i> (Gills)	Southwell and Prashad (1948) ; Chakravarty (1943).
	<i>Trichodina indica</i> (Gills & skin)	Tripathi (1954)
	<i>Scyphidia pyriformis</i> (Skin, fins & gills)	Tripathi (1954)
	<i>Ichthyophthirius</i> sp.	Srivastava (1975)
Major carps	Ichthyophthiriasis	Tripathi (1955) ; Gopala- krishnan (1964)
<i>Osteochilus neilli</i> (Day)	<i>Leptotheca asymmetrica</i>	Lalitha Kumari (1969)
<i>Puntius ambassis</i> (= <i>Barbus ambassis</i>)	<i>Eimeria ambassi</i>	Patnaik and Acharya (1972)
<i>Puntius carnaticus</i> (Jerdon) (= <i>Barbus carnaticus</i>)	<i>Trypanosoma</i> sp. (Blood)	Lingard (1904)
	<i>Nyctotherus barbusi</i> (Intestine)	Devraj (1971)
	<i>Trichodina indica</i>	Devraj (1971)
<i>Puntius chrysopoma</i> (C. V.) (= <i>Barbus chrysopoma</i>)	<i>Thelohanellus chryso- pomati</i> (Gills)	Lalitha Kumari (1969)
<i>Puntius hexagonolepis</i> (McClelland) (= <i>Barbus hexagonolepis</i>)	<i>Nyctotherus barbusi</i>	Devraj (1971)
<i>Puntius kolus</i> (Sykes) (= <i>Barbus kolus</i>)	<i>Myxobolus ampullaceus</i> (Fins)	Lalitha Kumari (1969)
	<i>Myxobolus koli</i> (Fins)	Lalitha Kumari (1969)
<i>Puntius panjaubensis</i> (Day) (= <i>Barbus panjaubensis</i>)	<i>Myxobollus osmaniae</i> (Liver, intestine)	Lalitha Kumari (1969)

<i>Puntius pinnauratus</i> (Day) (= <i>Barbus pinnauratus</i>)	<i>Myxobolus pinnaurati</i> (Gills)	Lalitha Kumari (1969)
	<i>Myxosoma</i> <i>hydrabadense</i> (Gills)	Lalitha Kumari (1969)
<i>Puntius sarana</i> (Hamilton) (= <i>Barbus sarana</i>)	<i>Myxobolus brachialis</i> (Gills)	Tripathi (1952)
	<i>Myxosoma indica</i> (Gills)	Lalitha Kumari (1969)
	<i>Thelohanellus chryso-</i> <i>pomati</i> (Gills)	Lalitha Kumari (1969)
	<i>Nyctotherus barbusi</i>	Devraj (1971)
<i>Puntius stigma</i>	<i>Trypanosoma batai</i> (Blood)	Joshi (1978)
	<i>Trypanosoma</i> sp. (Blood)	Joshi (1979)
<i>Puntius ticto</i> (Hamilton) (= <i>Barbus ticto</i>)	<i>Myxobolus barbi</i> (Skin)	Tripathi (1952)
<i>Rasbora daniconius</i> (Hamilton)	<i>Myxobolus nodularis</i> (Muscle)	Southwell and Prashad (1918)
	<i>Myxobolus</i> sp. (Subcutaneous tissue)	Southwell (1915)
<i>Salmostoma bacaila</i> (Hamilton) (= <i>Chela bacaila</i>)	<i>Thelohanellus chelae</i> . (Gall bladder)	Lalitha Kumari (1969)
	<i>Thelohanellus</i> <i>gangeticus</i> (Skin & muscle)	Tripathi (1952)
	<i>Trichodina indica</i>	Tripathi (1954)

Family : PSILORHYNCHIDAE

<i>Psilorhynchus balitora</i> (Hamilton)	<i>Myxobolus psilorhynchi</i> (Gills)	Lalitha Kumari (1969)
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Order : SILURIFORMES

Family : BAGRIDAE

<i>Aorichthys aor</i> (Hamilton)	<i>Trypanosoma</i> sp. (Blood)	Mandal (Ms.)
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(= <i>Mystus aor</i> ; <i>Macrones aor</i>)	<i>Myxidium aori</i> (Gall bladder)	Lalitha Kumari (1969)
	<i>Tetrahymena</i> <i>pyriformis</i>	Devraj (1971)
	<i>Chilodinella</i> sp. (Gill arches)	Devraj (1971)
	<i>Trichodina indica</i> (Gill arches)	Devraj (1971)
<i>Aorichthys seenghala</i> (Sykes)	<i>Trypanosoma seenghala</i> (Blood)	Joshi (1976) Lingard (1904) ; Tandon and Joshi (1974)
(= <i>Mystus seenghala</i> ; <i>Macrones seenghala</i>)	<i>Trypanosoma</i> sp. (Blood)	Tandon and Chandra (1977 b) ; Joshi (1979)
<i>Mystus bleekeri</i> (Day)	<i>Trypanosoma</i> <i>bengalensis</i> (Blood)	Mandal (1979 a)
	<i>Phlogospora mysti</i> (Gills)	Qadri (1962 d)
<i>Mystus cavasius</i> (Hamilton)	<i>Nathella kumarii</i> (Intestine)	Singh (1953)
	<i>Nathella rayii</i> (Intestine)	Singh (1953)
<i>Mystus gulio</i> (Hamilton)	<i>Ceratomyxa</i> sp. (Gall bladder)	Ray (1933 b)
	<i>Leptotheca macronesi</i> (Gall bladder)	Chakravarty (1943)
<i>Mystus vittatus</i> (Bloch)	<i>Cryptobia indica</i> (Blood)	Mandal (1979 a)
	<i>Trypanosoma vittati</i> (Blood)	Tandon and Joshi (1973)
	<i>Trypanosoma</i> sp. (Blood)	Joshi (1979)
	<i>Dactylosoma</i> sp. (R. B. C.)	Mandal (1979 a)

Family : CLARIIDAE

<i>Clarias batrachus</i> (Linnaeus)	<i>Trypanosoma batrachi</i> (Blood)	Qadri (1962f)
	<i>Trypanosoma clariae</i> var. <i>batrachi</i> (Blood)	de Mello and Valles (1936a)

- Trypanosoma maguri* Tandon and Joshi
(Blood) (1973)
- Trypanosoma* sp. Tandon and Joshi
(Blood) (1974) ; Tandon and
Chandra (1977 b)
Joshi (1979)
- Myxobolus clarii* Chakravarty (1943) ;
(Gall bladder, liver, Lalitha Kumari (1969)
testes, ovary & fat
bodies)
- Myxobolus* sp. Ray (1933 b)
(Ovary & liver)

Family : HETEROPNEUSTIDAE

- Heteropneustes fossilis* *Trypanosoma danilewskyi*
(Bloch) var. *saccobranchi* Qadri (1962f)
(Blood)
- (=*Saccobranchus fossilis*) *Trypanosoma* Ray Chaudhuri and
mukundi (Blood) Misra (1973)
- Trypanosoma* Castellani and Willey
saccobranchi (Blood) (1905)
- Trypanosoma* sp. Tandon and Joshi (1974) ;
(Blood) Joshi and Dabrol (1979) ;
Joshi (1979)
- Chloromyxum* Chakravarty (1943)
amphinoui
(Gall bladder)
- Myxidium* Chakravarty (1943)
heteropneusti
(Gall bladder)
- Myxidium* sp. Ray (1933 b)
(Gall bladder)
- Zschokkella fossilae* Chakravarty (1943)
(Gall bladder)
- Zschokkella* sp. Qadri (1951 a)
(Gall bladder)

Family : PANGASIIDAE

- Pangasius pangasius* *Tetrahymena* Devraj (1971)
(Hamilton) ... *pyriformis*
- Nyctotherus pangasia* Tripathi (1954)

Family : PLOTOSIDAE

- Plotossus canius* *Eimeria* sp. Setna and Bana (1935)
Hamilton (Intestine)
a haemoprotozoon (?) Mandal (Ms)
(R. B. C.)

Family : SILURIDAE

- Callichrous bimaculatus* *Tetrahymena pyriformis* Devraj (1971)
Bloch
Wallago attu (Bloch) *Trypanosoma tandoni* Mandal (1980)
(Blood)
Trypanosoma sp. Tandon and Chandra
(Blood) (1977 b)
Tetrahymena pyriformis Devraj (1971)

Order : ATHERINIFORMES

Family : CYPRINODONTIDAE

- Oryzias melastigmus* *Kofoidella apocheilusi* Rao (1979)
(McClelland)
(= *Apocheilus melastigma*)

Family : BELONIDAE

- Strongylura strongylura* *Kudoa chilkaensis* Tripathi (1952)
(Van Hasselt) (Muscle)
(= *Strongylura strongylura*)
Xenentodon cancila *Trypanosoma cancili* Mandal (1978 b)
(Hamilton) (Blood)
Chloromyxum sp. Tripathi (1952)
(Gall bladder)

Order : CHANNIFORMES

Family : CHANNIDAE

- Channa gachua* *Trypanosoma gachuii* Misra, Chandra and
(Hamilton) (Blood) Choudhury (1973)
(= *Ophicephalus gachua*)
Trypanosoma sp. Joshi (1979)
(Blood)
Henneguya qadrii Lalitha Kumari
(Cysts on viscera) (1965, 1969)
Unicauda ophicephali Tripathi (1952)
(Gills)
Trichodina indica Tripathi (1954)
(Gills & skin)

<i>Channa marulius</i> (Hamilton)	<i>Trichodina indica</i> (Gill arch)	Devraj (1971)
(= <i>Ophicephalus marulius</i>)		
<i>Channa punctatus</i> (Bloch)	<i>Trypanosoma elongatus</i> (Blood)	Ray Chaudhuri and Misra (1973)
(= <i>Ophicephalus punctatus</i> = <i>Ophiocephalus punctatus</i>)		
	<i>Trypanosoma punctati</i> (Blood)	Hasan and Qasim (1962)
	<i>Trypanosoma</i> sp. (Blood)	Tandon and Joshi (1974) ; Joshi (1979)
	<i>Babesiosoma harenii</i> (RBC)	Misra, Haldar and Chakravarty (1970)
		Haldar, Misra and Chakravarty (1971)
	<i>Babesiosoma ophicephali</i> (RBC)	Misra, Haldar and Chakravarty (1969 b)
	<i>Mesnilium malariae</i> (RBC)	Misra, Haldar and Chakravarty (1972)
	<i>Chloromyxum</i> sp.	Haldar and Mukherjee (1978)
	<i>Henneguya ophicephali</i> (Gills)	Chakravarty (1939)
	<i>Henneguya waltairensis</i> (Gills)	Narasimhamurti and Kalavati (1975)
	<i>Henneguya zahoori</i> (Pharyngeal epithelium)	Bhatt and Siddiqui (1964)
	<i>Henneguya</i> sp. (Gills & muscles)	Ray (1933 b)
	<i>Myxidium</i> sp. (Gall bladder)	Ray (1933 b) ; Haldar and Mukherjee (1978)
	<i>Myxobolus aligahrensis</i> (Accessory respiratory membrane)	Bhatt and Siddiqui (1964)
	<i>Myxobolus ophicephali</i> (Accessory respiratory membrane to base of the gills)	Bhatt and Saddiqui (1964)

<i>Myxobolus punctatus</i>	Ray Chaudhuri and (Spleen & pharyngeal epithelium)	Chakravarty (1970) ; Mukherjee and Haldar (1978 a)
<i>Myxobolus</i> sp.		Malhotra <i>et al.</i> (1979)
<i>Myxosoma andhrae</i>	(Cysts on intestine)	Lalitha Kumari (1969)
<i>Unicauda basiri</i>	(Pharyngeal epithelium)	Bhatt and Siddiqui (1964)
<i>Unicauda bengalensis</i>	(Roof of the buccal cavity)	Ray Chaudhuri and Chakravarty (1970)
<i>Unicauda bicornuata</i>	(Gills)	Ray Chaudhuri and Chakravarty (1970)
<i>Unicauda ophicephali</i>	(Muscles)	Tripathi (1952)
<i>Trichodina indica</i>	(Gills & skin)	Tripathi (1954)
<i>Trichodina</i> sp.		Haldar and Mukherjee (1978)
<i>Channa striatus</i> (Bloch)	<i>Trypanosoma striati</i> (= <i>Ophicephalus striatus</i> (Blood)	Qadri (1955) ; Qadri (1962 g)
(= <i>Ophiocephalus striatus</i>)	<i>Trypanosoma</i> sp. (Blood)	Lingard (1904) ; Qadri (1951 a)
	<i>Zschokkella ophicephali</i> (Gall bladder)	Lalitha Kumari (1969)

Order : SYMBRANCHIFORMES

Family : SYMBRANCHIDAE

<i>Amphipnous cuchia</i> (Hamilton)	<i>Chloromyxum</i> <i>amphipnoui</i> (Gall bladder)	Ray (1933 b) ; Chakravarty (1943)
(= <i>Amphipnous kuchia</i>)	<i>Chloromyxum</i> sp. (Gall bladder)	Ray (1933 b)

Order : PERCIFORMES

Family : PERCIDAE

<i>Lates calcarifer</i> (Bloch)	<i>Henneguya latesi</i> (Gills & skin)	Tripathi (1952)
	<i>Leptotheca latesi</i> (Gall bladder)	Chakravarty (1943)
	<i>Myxidium procerum</i> var. <i>calcariferi</i> (Gall bladder)	Chakravarty (1943)

Family : SCIAENIDAE

<i>Otolithes ruber</i> (Schneider)	<i>Eimeria</i> sp. (Intestine)	Setna and Bana (1935)
	<i>Henneguya otolithi</i> (Bulbous arteriosus)	Ganapati (1938, 1941)
<i>Pterotolithus maculatus</i> (Schneider) (= <i>Otolithus maculatus</i>)	<i>Henneguya otolithi</i> (Bulbous arteriosus)	Ganapati (1938, 1941)

Family : CHANIDAE

<i>Chanda nama</i> (Hamilton) (= <i>Ambassis nama</i>)	<i>Trichodina indica</i> (Gills & skin)	Tripathi (1954)
<i>Chanda ranga</i> (Hamilton) (= <i>Ambassis ranga</i>)	<i>Trichodina indica</i> (Gills & skin)	Tripathi (1954)

Family : MUGILIDAE

<i>Liza tade</i> (Forskål) (= <i>Mugil tade</i>)	<i>Zoothamnium horai</i> (Attached to scale)	Khajuria and Pillay (1952)
<i>Mugil cephalus</i> Linnaeus	<i>Kudoa tetraspora</i> (Brain tissue)	Narasimhamurti and Kalavati (1979a)
<i>Liza vaigiensis</i> (Quoy & Gaimard) (= <i>Mugil waigiensis</i>)	<i>Myxosoma intestinalis</i> (Gut epithelium)	Narasimhamurti (1970)
<i>Liza macrolepis</i> (Smith)	<i>Myxosoma lairdi</i> (Gut epithelium)	Narasimhamurti and Kalavati (1979 c)

Family : NANDIDAE

<i>Nandus nandus</i> (Hamilton)	<i>Trypanosoma</i> sp. (Blood)	Mukherjee and Haldar (1979 b)
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Family : SPHYRAENIDAE

<i>Sphyraena jello</i> Cuvier	<i>Kudoa sphyraeni</i> (Gut muscle)	Narasimhamurti and Kalavati (1979 d)
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Family : GOBIIDAE

<i>Acentrogobius reichei</i> (Bleeker) (<i>Acentrogobius neilli</i>)	<i>Zoothamnium</i> sp. (Mouth)	Jones and Job (1938)
<i>Boleophthalmus boddarti</i> (Pallas) (= <i>Boleophthalmus boddaerti</i>)	<i>Ceratomyxa sagarica</i> (Gall bladder)	Choudhury and Nandi (1973 b)
	<i>Myxidium boddaerti</i> (Gut content)	Choudhury and Nandi (1973 b)
	<i>Myxidium lieberkuhni</i> (Gall bladder)	Choudhury and Nandi (1973 b)
<i>Glossogobius giuris</i> (Hamilton) (= <i>Gobius giuris</i>)	<i>Trypanosoma</i> sp. (Blood)	Castallani and Willey (1905) ; Patton (1908)
	<i>Hexamita</i> sp. (Intestine)	Qadri (1962 a)
	<i>Eimeria</i> sp.	Mukherjee and Haldar (1979 a)
	<i>Myxidium glossogobi</i> (Gall bladder)	Chakravarty (1939)
<i>Odontamblyopus</i> <i>rubicurdus</i> (Hamilton) (= <i>Gobioides rubicundus</i>)	<i>Ceratomyxa gobioidesi</i> (Gall bladder)	Chakravarty (1939)
	<i>Ceratomyxa</i> sp. (Liver, kidney, gall bladder, ovary etc.)	Ray (1933 b)
	<i>Neohenneguya</i> <i>tetraradiata</i> (Gills)	Tripathi (1952)
	<i>Sphaeromyxa pultai</i> (Gall bladder)	Tripathi (1952)

Family : ANABANTIDAE

<i>Anabas testudineus</i> (Bloch)	<i>Trypanosoma anabasi</i> (Blood)	Mandal (1975)
	<i>Myxidium lieberkuhni</i> (Gall bladder)	Chakravarty (1943)

<i>Colisa fasciatus</i> (Schneider) (= <i>Trichogaster fasciatus</i>)	<i>Haemogregarina</i> sp. (Blood)	Plimmer (1914)
	<i>Ceratomyxa</i> sp. (Gall bladder)	Ray (1933 b)
	<i>Trypanosoma</i> sp. (Blood)	Lingard (1904)

Family : CARANGIDAE

<i>Megalaspis calrdyla</i> (Linnaeus)	<i>Nosema</i> sp.	Narasimhamurti and Sandeep (1979)
<i>Carangoides malabaricus</i>	<i>Pleistophara carangoidi</i> (Body muscle)	Narasimhamurti and Sonabai (1977)

Family : CICHLIDAE

<i>Tilapia mossambica</i> (Peters)	<i>Phacus</i> sp. (Rectal content)	Choudhury and Chandra (1972)
	<i>Trypanosoma choudhuryi</i> (Blood)	Mandal (1977)
	<i>Trichodina</i> sp. (Rectal content)	Choudhury and Chandra (1972)

Family : SERRANIDAE

<i>Epinephelus diacanthus</i> (Valenciennes)	<i>Eimeria</i> sp. (Intestine)	Setna and Bana (1935)
<i>Epinephalus tauvina</i> (Forskål)	<i>Eimeria</i> sp. (Intestine)	Setna and Bana (1935)

Family : SILIAGINIDAE

<i>Sillago sihama</i> (Forskål)	<i>Eimeria</i> sp. (Intestine)	Setna and Bana (1935)
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Family : SCATOPHAGIDAE

<i>Scatophagus argus</i> (Linnaeus)	<i>Ceratomyxa scatophagi</i> (Gall bladder)	Chakravarty (1943)
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Family : THERAPONIDAE

- Therapon jarbua* (Forskål) *Sphaeromyxa theraponi* Tripathi (1952)
(Gall bladder)
Zoothamnium sp. Job (1938 ; Cited from
(Teeth, lips) Jones and Job, 1938)

Family : TRICHIURIDAE

- Lepturacanthus savala* (Linnaeus) (= *Trichiurus savala*) *Eimeria* sp. Setna and Bana (1935)
(Intestine)

Order : MASTACEMBELIFORMES

Family : MASTACEMBELIDAE

- Mastacembelus armatus* (Lacépède) *Trypanosoma armeti* Mandal (1975)
(Blood)
Trypanosoma sp. Tandon and Chandra
(Blood) (1977 b) ; Joshi (1979)
Myxobilatus mastacembeli Qadri and Lalitha
Kumari (1965)
(Cyst in between spleen and intestine)
Myxobolus eeli Mandal and Nair (1975)
(Intestine)
Myxobolus mastacembeli Qadri (1965)
- Mastacembelus pancalus* (Hamilton) *Trypanosoma pancali* Mandal (1975)
(Blood)

Order : TETRADONTIFORMES

Family : TETRAODONTIDAE

- Sphaeroides oblongus* (Bloch) *Trichodina* sp. Choudhury and Nandi
(Gills) (1973 a)

Order : BATRACHOIDIFORMES

Family : BATRACHOIDIDAE

- Batrachus grunniens* (Günthere) *Eimeria* sp. Setna and Bana (1935)
(Intestine)

AQUARIUM FISH

- Xiphophorus hellerii* *Ichthyophthirius multifiliis* Tripathi (1955)
(Body. skin)

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ADDENDUM TO BIBLIOGRAPHY

Postscript : The following papers came to the authors' attention after the manuscript went to press :

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