



*Occasional Paper No. 346*

Records of the  
Zoological Survey of India

**CHECKLIST OF INDIAN  
TREMATODE PARASITES  
FROM AMPHIBIAN HOSTS**

**ANINDITA GHOSH  
AND  
SHUVAJIT CHAKRABARTI**

**ZOOLOGICAL SURVEY OF INDIA**



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TREMATODE PARASITES FROM  
AMPHIBIAN HOSTS**

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## INTRODUCTION

Digenetic trematodes are believed to be originated from the turbellarian ancestors and their parasitic life is assumed to have developed from their ancestors to the phylogenetically related invertebrate hosts. The most primitive digenea, therefore, most have confined their parasitism theoretically to invertebrate hosts until the advent of vertebrates, in the simplest life cycle pattern, i. e. one host-cycle. As a matter of fact this simplest pattern is represented by pathogenesis. As the forerunners of the vertebrates arrived the trematode parasites found their lodging in the newcomers and further intruded into higher vertebrate groups. From the reasoning the evolutionary steps of the Digenea, though lagging, should conform to those of host animals.

Amphibians, when are examined, yield a good number of trematode parasites, which are endoparasites, causes no harm to their host but mutually inhabiting with symbiotic effect. Several Trematodes from amphibian host recorded so far from India. Present study deals with 118 species under 26 genera and under 12 families.

## SYSTEMATIC INDEX

### 1. Family PARAMPHISTOMIDAE Fiscoeder, 1901

#### Subfamily DIPLODISCINAE Cohn, 1904

##### 1. Genus *Diplodiscus* Diesing, 1836

1. *Diplodiscus amphichrus* Tubangui, 1933
2. *Diplodiscus amphichrus magnus* Srivastava, 1934
3. *Diplodiscus mehrai* Pande, 1937
4. *Diplodiscus chauhani* Pandey, 1969
5. *Diplodiscus lali* Pandey & Chakrabarty, 1968

##### 2. Family GORGODERIDAE (Looss, 1899)

#### Subfamily GORGODERINAE Looss, 1899

##### 2. Genus *Gorgoderina* Looss, 1902

6. *Gorgoderina simplex* (Looss, 1899) Looss, 1902
7. *Gorgoderina elliptica* Dwivedi, 1968
8. *Gorgoderina infundibulata* Dwivedi, 1968
9. *Gorgoderina symmetriorchis* Dwivedi, 1968
10. *Gorgoderina guptai* Jahan, 1978
11. *Gorgoderina indica* Gupta & Jahan, 1977
12. *Gorgoderina chauhani* Prasad and Prasad, 1990

#### Subfamily PHYLLODISTOMINAE Yamaguti, 1958

##### 3. Genus *Phyllodistomum* Braun, 1950

13. *Phyllodistomum frequentum* Kaw, 1950

14. *Phyllodistomum shandrai* Bhalerao, 1937  
 15. *Phyllodistomum srivastavai* Rai, 1964  
 16. *Phyllodistomum almoraii* Pande, 1937
3. Family HAEMATOLOECHIDAE Odening, 1964  
 4. Genus *Haematoloechus* Looss, 1899
17. *Haematoloechus almorai* (Pande, 1937)  
 18. *Haematoloechus capyrstis* (Klein, 1905) Ingles, 1932  
 19. *Haematoloechus erasmusi* Lal & Sharma, 1982  
 20. *Haematoloechus jamshedpuransis* Hussain & Sahay, 1989  
 21. *Haematoloechus variegatus almorai* Pande, 1937
4. Family PLAGIORCHIIDAE (Luhe, 1899) Ward, 1917  
 Subfamily PLAGIORCHIINAE Pratt, 1902  
 5. Genus *Plagiorchis* Luhe, 1899
22. *Plagiorchis himalayai* (Jordan, 1930)
6. Genus *Centrovitus* Bhalerao, 1926
23. *Centrovitus pentadelphi* Bhalerao, 1926
5. Family BRACHYCOELIDAE Johnston, 1912  
 Subfamily BRACHYCOELIINAE Looss, 1899  
 7. Genus *Tremiorchis* Mehra & Negi, 1925
24. *Tremiorchis ranarum* Mehra & Negi, 1926  
 25. *Tremiorchis mehrai* Rai, 1962  
 26. *Tremiorchis vitelloconfluentum* (Sic.) Rai, 1962  
 27. *Tremiorchis tigrinanum* Simha *et al.*, 1974  
 28. *Tremiorchis varanum* Verma, 1930  
 29. *Tremiorchis mathuraensis* Swarup & Jain, 1977  
 30. *Tremiorchis spinophlyctis* Karyokarte & Palladwar, 1977  
 31. *Tremiorchis jamshedpurensis* Hussain, 1989  
 32. *Tremiorchis jaini* Srivastava & Saxena, 1983
- Subfamily MESOCOELIINAE Faust, 1924  
 8. Genus *Mesocoelium* Odhner, 1910
33. *Mesocoelium sociale* (Luhe, 1901) Odhner, 1910  
 34. *Mesocoelium varunae* Baugh, 1957  
 35. *Mesocoelium monas* (Rud., 1819) Freitas, 1958  
 36. *Mesocoelium asymmetrovitellarius* Kumari *et* Verma, 1993  
 37. *Mesocoelium melanostictii* Rao, 1989

38. *Mesocoelium melanonostictusi* Singh & Prashad, 1984  
 39. *Mesocoelium thapari* Gupta & Jahan, 1974
6. Family HEMIURIDAE Luhe, 1901  
 Subfamily HALIPAGINAE Ejsmont, 1931  
 9. Genus *Halipegus* Looss, 1899
40. *Halipegus ovocaudatus* (Vulpian, 1859) Looss, 1899  
 41. *Halipegus longispina* Klein, 1905  
 42. *Halipegus mehransis* Srivastava, 1933  
 43. *Halipegus mehransis mehransis* Srivastava, 1933  
 44. *Halipegus mehransis minutus* Srivastava, 1933  
 45. *Halipegus spindalis* Srivastava, 1933  
 46. *Halipegus udaipurensis* Gupta & Agrawal, 1967  
 47. *Halipegus occidualis* Stafford, 1905  
 48. *Halipegus ambalensis* Gupta & Chopra, 1936
10. Genus *Genarchopsis* Ozaki, 1925
49. *Genarchopsis melanostictus* Dwivedi, 1965
7. Family MACROPHALLIDAE (Ward, 1901) Travassos, 1920  
 Subfamily MACROPHALLINAE Ward, 1901  
 11. Genus *Allomicrocephallus* Yamaguti, 1970
50. *Allomicrocephallus dicaecus* (Mukherjee & Ghosh, 1967) Yamaguti, 1970
- Subfamily MEGALOTRIOTRETINAE (Rao, 1969)  
 12. Genus *Megalotriotrema* Rao, 1969
51. *Megalotriotrema hispidum* Rao, 1969  
 52. *Megalotriotrema dicaecus* (Mukherjee & Ghosh, 1967) Rao, 1969
8. Family LECITHODENDRIIDAE (Luhe, 1901) Odhner, 1901  
 Subfamily GANEONINAE Yamaguti, 1958  
 13. Genus *Ganeo* Klein, 1905
53. *Ganeo glottoides* Klein, 1905  
 54. *Ganeo glottoides glottoides* Klein, 1905  
 55. *Ganeo attenuates* Srivastava, 1933  
 56. *Ganeo bufonis* (Fotedar, 1959)  
 57. *Ganeo gastricus* Srivastava, 1933  
 58. *Ganeo glottoidea madrasensis* Mehra Negi, 1928  
 59. *Ganeo korkei* Bhalerao, 1936  
 60. *Ganeo kumaonensis* Pande, 1937



61. *Ganeo punjabensis* Gupta, 1954
62. *Ganeo srinagarensis* Kaw, 1950
63. *Ganeo tigrinum* Mehra & Negi, 1928
64. *Ganeo gazipurensis* Pandey & Chakraborty, 1968
65. *Ganeo ankholensis* Hafeezullah & Dutta, 1985
66. *Ganeo vitellosinistrum* Dwivedi & Chauhan, 1971
67. *Ganeo kawi* Dwivedi & Chauhan, 1971
68. *Ganeo bahurai* Ghosh & Chauhan, 1982
69. *Ganeo lucknowensis* Gupta & Jahan, 1978

Subfamily PLEUROGENINAE Travassos, 1921

14. Genus *Pleurogenoides* Luhe, 1901

70. *Pleurogenoides gastroporus* (Luhe, 1901) Travassos, 1921
71. *Pleurogenoides bufonis* Kaw, 1943
72. *Pleurogenoides medians* var. *equalis* Mehra & Negi, 1928
73. *Pleurogenoides sitapurii* (Srivastava, 1934) Kaw, 1943
74. *Pleurogenoides sphaericus* (Klein, 1905), Travassos, 1921
75. *Pleurogenoides solus* (Johnston, 1912) Travassos, 1930
76. *Pleurogenoides ovatus* Rao, 1977
77. *Pleurogenoides jamshedpuransis* Hasnain & Sahay, 1988
78. *Pleurogenoides ranchiensis* Dan & Sahay, 1991
79. *Pleurogenoides sahranensis* Chakrabarti et al, 2011
80. *Pleurogenoides orientalis* (Srivastava, 1934)
81. *Pleurogenoides amritsarensis* Gupta & Chopra, 1984
82. *Pleurogenoides gastroporus* var. *equalis* Mehra & Negi, 1928

15. Genus *Pleurogenes* Looss, 1896

83. *Pleurogenes prayagi* Mehra & Negi, 1926
84. *Pleurogenes* (*Telogonella*) *swarensis* Gupta, 1954

16. Genus *Indopleurogenes* Yamaguti, 1971

85. *Indopleurogenes amritsarensis* Gupta & Chopra, 1984
86. *Indopleurogenes orientalis* (Srivastava, 1934)

17. Genus *Loxogenes* Stafford, 1905

87. *Loxogenes kashmirensis* (Kaw, 1950) Yamaguti, 1958
88. *Loxogenes jammuensis* Duda et al., 1999
89. *Loxogenes staffordii* Verma & Sahay, 1985

18. Genus *Paraindopleurogenoides* Kalyankar & Palledwar, 1977

90. *Paraindopleurogenoides dagaduji* Kalyankar & Palledwar, 1977

91. *Paraindopleurogenoides inversae* Kalyankar & Palledwar, 1977

19. Genus *Pleurorchis* Fotedar, 1974

92. *Pleurorchis nenei* Fotedar, 1974

Subfamily PROSOTOCINAE Yamaguti, 1958

20. Genus *Mehraorchis* Srivastava, 1934

93. *Mehraorchis ranarum* Srivastava, 1934

94. *Mehraorchis tigrinarum*, Gupta, 1954

95. *Mehraorchis jainiformes* Bhardwaj, 1963

96. *Mehraorchis cyanophlyctus* Karyakarte, 1972

21. Genus *Prosotocus* Looss, 1899

97. *Prosotocus confusus indianus* Mehra, 1926

98. *Prosotocus dorsoporus* Murhar, 1960

99. *Prosotocus himalayai* Pande, 1937

100. *Prosotocus kashabia* Kaw, 1943

101. *Prosotocus infrequentus* Srivastava, 1933

102. *Prosotocus partapus* Kaw, 1950

103. *Prosotocus poroformis* Bhardwaj, 1968

104. *Prosotocus tigrinum* Bhardwaj, 1963

105. *Prosotocus baughi* Pandey, 1973

106. *Prosotocus bengalensis* Hafeezullah & Dutta, 1985

107. *Prosotocus simhali* Rao, 1977

108. *Prosotocus gussevi* Gupta & Jain, 1922

109. *Prosotocus kherai* Sharma, 1988

110. *Prosotocus indicus* Mehra & Negi, 1928

9. Family PROTERODIPLOSTOMIDAE Dubois, 1936

Subfamily PROALAROIDINAE Yamaguti, 1933

22. Genus *Proalaroides* Yamaguti, 1933

111. *Proalaroides tropidonotis* Vidyarthi, 1937

10. Family PLAGIORCHIIDAE (Luhe, 1901) Ward, 1907

Subfamily ASTIOTREMATINAE Baer, 1924

23. Genus *Astiotrema* Looss, 1900

112. *Astiotrema sudarshani* Mukherjee & Ghosh, 1970

113. *Astiotrema reniferum* (Rud. 1819) Freitas, 1958  
 114. *Astiotrema siddiqui* Lal & Prashad, 1980
11. Family ECHINOSTOMATIDAE Poche, 1926  
 Subfamily ECHINOSTOMATINAE Faust, 1929  
 24. Genus *Artyfechinostomum* Lane, 1915
115. *Artyfechinostomum sufrartyfex* Lane, 1915
12. Family BATRACHOTREMATIDAE Dollfus & Williams, 1966  
 25. Genus *Batrachotrema* Dollfus & Williams, 1966
116. *Batrachotrema nagalandensis* Tandon *et al.*, 2005
26. Genus *Opisthoparorchis* Wang, 1980
117. *Opisthoparorchis indica* Tandon *et al.*, 2005  
 118. *Opisthoparorchis yunnanse* Li, 1996

#### SYSTEMATIC ACCOUNT

1. Family PARAMPHISTOMIDAE Fiscoeder, 1901  
 Subfamily DIPLODISCINAE Cohn, 1904  
 1. Genus *Diplodiscus* Diesing, 1836  
 1. *Diplodiscus amphichrus* Tubangui, 1933
1933. *D. amphichrus* Tubangui, *Philip. J. Sc.*, 52 (2): 167-197.  
*Host: Duttaphrynus (=Bufo) sp., Euphlyctis (=Rana) sp.*  
*Location: Rectum*  
*Distribution: India: Uttar Pradesh (Lucknow)*  
*Elsewhere: Philippines, Myanmar(Then Burma), Sri Lanka (Then Ceylon), Manchuria*
2. *Diplodiscus amphichrus magnus* Srivastava, 1934
1934. *D. amphichrus magnus* Srivastava *Bull. Acad. Sc. U.P. Agra and Oudh.*, 4(1): 113-119  
*Host: Euphlyctis(=Rana)cyanophlyctus & Hoplobatrachus tigrinus (=Rana tigrina)*  
*Location: Gut*  
*Distribution: India*
3. *Diplodiscus mehrai* Pande, 1937
1937. *D. mehrai* Pande *Anns. Mag. Nat. Hist. S.*, 20: 250-256.  
*Host: Euphlyctis (=Rana) cyanophlyctis, Duttaphrynus(=Bufo) viridis.*  
*Location: Gut*  
*Distribution: India: Uttarakhand(Almorah), Kashmir*

*Elsewhere:* Sri Lanka (then Ceylon)

4. *Diplodiscus chauhani* Pandey, 1969

1969. *D. chauhani* Pandey, *Proc. Ind. Acad. Sci.*, 4 (sect. B): 203-206.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Rectum

*Distribution:* India: Uttar Pradesh

5. *Diplodiscus lali* Pandey & Chakraborti, 1968

1968. *D. lali* Pandey & Chakraborti, *Ceylon J. sci. (Bio. Sci.)* 8(1): 38-41

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine & rectum

*Distribution:* India: Uttar Pradesh

2. Family GORGDERIDAE (Looss, 1899) Looss, 1901

Subfamily GORGODERINAE Looss, 1899

2. Genus *Gorgoderina* Looss, 1902

6. *Gorgoderina simplex* (Looss, 1899) Looss, 1902

1899. *Distomum simplex* Looss, *Zool. Jahrb. Syst.*, 12: 521-784.

1902. *Gorgoderina simplex* Looss, *Zool. Jahrb. Syst.*, 16(3-6): 411-894.

*Host:* *Euphlyctis* (= *Rana*) sp.

*Location:* Urinary bladder

*Distribution:* India

*Elsewhere:* North America

7. *Gorgoderina elliptica* Dwivedi, 1968

1968. *G. elliptica* Dwivedi, *Ind. J. Helm.*, 19(2): 132-140.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India

8. *Gorgoderina infundibulata* Dwivedi, 1968

1968. *G. infundibulata* Dwivedi, *Ind. J. Helm.*, 19 (2): 132-140.

*Host:* *Duttaphrynus* (= *Bufo*) *melanostictus*

*Location:* Intestine

*Distribution:* India: West Bengal (Sujapur)

9. *Gorgoderina symmetriorchis* Dwivedi, 1968

1968. *G. symmetriorchis* Dwivedi, *Ind. J. Helm.*, **19** (2): 132-140

*Host: Limnonectes limnocharis* (= *Rana limnocharis*)

*Location: Intestine*

*Distribution: India: West Bengal (Sujapur)*

10. *Gorgoderina guptai* Jahan, 1973

1973. *G. guptai* Jahan, *Jap. J. Parasit.*, **22** (5): 259-260.

*Host: Duttaphrynus* (= *Bufo*) sp.

*Location: Upinary Bladder*

*Distribution: India: Uttar Pradesh (Lucknow)*

11. *Gorgoderina indica* Gupta & Jahan, 1977

1977. *G. indica* Gupta & Jahan, *Proc. Ind. Sc. Cong.*, **58** (3): 554.

*Host: Duttaphrynus* (= *Bufo*) sp.

*Location: Intestine*

*Distribution: India*

12. *Gorgoderina chauhani* Prasad & Prasad, 1990

*Ref.: insect.tamu.edu/research/collection/.../Gorgoderidae*

*Host: Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location: Intestine*

*Distribution: India: Bihar*

Subfamily PHYLLODISTOMINAE Yamaguti, 1958

3. Genus *Phyllodistomum* Braun, 1950

13. *Phyllodistomum frequentum* Kaw, 1950

1950. *P. frequentum* Kaw, *Ind. J. Helm.*, **2** (2): 67-126.

*Host: Duttaphrynus* (= *Bufo*) *viridis*

*Location: Intestine*

*Distribution: India: West Bengal (Sujapur)*

14. *Phyllodistomum shandrai* Bhalerao, 1937

1937. *P. Shandrai* Bhalerao, *Ind. J. Helm.*, **15** (2): 97-124.

*Host: Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location: Rectum*

*Distribution:* India

15. *Phyllodistomum srivastavai* Rai, 1964

1964. *P. srivastavai* Rai *Parasit.*, **54**: 43-51.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Rectum

*Distribution:* India

16. *Phyllodistomum almoraii* Pande, 1937

1937. *P. almorii* Pande, *Proc. Ind. Acad. Sci.*, **6**(2): 109-120.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India

3. Family HAEMATOLOECHIDAE Odening, 1964

4. Genus *Haematoloechus* Looss, 1899

17. *Haematoloechus almorai* (Pande, 1937)

1937. *H. almorai* Pande, *Ann. Mag. Nat. Hist. s.*, **20**: 250-256.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India

*Elsewhere:* Sri Lanka (Then Ceylon)

18. *Haematoloechus capyristes* (Klein, 1905) Ingles, 1932

1905. *H. capyristes* Klein, *Zool. Jahrb.*, **22**: 1-22.

*Host:* *Euphlyctis* (= *Rana*) *hexadactyla*

*Location:* Intestine

*Distribution:* India: South India

19. *Haematoloechus erasmusi* Lal & Sharma, 1982

*Ref.* [insect.tamu.edu/research/collection/.../Haematoloechiidae](http://insect.tamu.edu/research/collection/.../Haematoloechiidae)

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India

20. *Haematoloechus jamshedpurensis* Hasnain & Sahay, 1989

*Ref.* [insect.tamu.edu/research/collection/.../Haematoloechiidae](http://insect.tamu.edu/research/collection/.../Haematoloechiidae)

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India*

21. *Haematoloechus variegatus almorai* Pande, 1937

1937. *H. variegatus almorai* Pande, *Proc. Ind. Acad. Sci.*, 6 (2): 109-120

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India*

Elsewhere: Sri Lanka (Then Ceylon)

4. Family PLAGIORCHIIDAE (Luhe, 1899) Ward, 1917

Subfamily PLAGIORCHIINAE Pratt, 1902

5. Genus *Plagiorchis* Luhe, 1899

22. *Plagiorchis himalayai* (Jordan, 1930)

1930. *Lepoderma himalayai* Jordan, *Proc.*, 17. *Ind. Sc. Cong.*, : 266.

*Host: Common toad, Duttaphrynus (=Bufo) latastii*

*Location: Intestine*

*Distribution: India: Kashmir*

6. Genus *Centrovitus* Bhalerao, 1926

23. *Centrovitus pentadelphi* Bhalerao, 1926

1926. *C. pentadelphi* Bhalerao, *Parasit.*, 18 (2): 154-159.

*Host: (Hoplobatrachus) tigrinus (=Rana tigrina)*

*Location: Digestive tract*

*Distribution: India: Maharashtra (Nagpur) & Uttar Pradesh (Allahabad)*

5. Family BRACHYCOELIIDAE Johnston, 1912

Subfamily BRACHYCOELIINAE Looss, 1899

7. Genus *Tremiorchis* Mehra & Negi, 1925

24. *Tremiorchis ranarum* Mehra & Negi, 1925

1926. *T. ranarum* Mehra & Negi, *Parasit.*, 18: 168-181.

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India*

25. *Tremiorchis mehrai* Rai, 1962

1962. *T. mehrai* Rai, *Proc. Nat. Acad. Sc. India.*, **32** (4): 379-384.

*Host: Duttaphrynus (=Bufo) melanostictus*

*Location: Intestine*

*Distribution: India: Madhya Pradesh (Jabalpur)*

26. *Tremiorchis vitelloconfluentum* [sic] Rai, 1962

1962. *T. vitelloconfluentum* Rai, *Proc. Nat. Acad. Sc. India.*, **32**(4): 379-384.

*Host: Hoplobatrachus tigrina (=Rana tigrina)*

*Location: Intestine*

*Distribution: India: Madhya Pradesh (Jabalpore)*

27. *Tremiorchis tigrinarum* Sinha et al., 1974

1974. *T. tigrinarum* Sinha et al., *Ind. J. Anim. Res.* **8** (1): 39-44

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India: Bihar (Patna)*

28. *Tremiorchis varanum* Verma, 1930

1930. *T. varanum* Verma, *Parasit.*, **22**: 302-312

*Host: Frog*

*Location: Intestine*

*Distribution: India*

29. *Tremiorchis mathuraensis* Swarup & Jain, 1977

1977. *T. mathurensis* Swarup & Jain, *Agra Univ. J. Res., (Sci)* **25** (1): 99-102.

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India: Uttar Pradesh (Mathura)*

30. *Tremiorchis spinophlyctis* Kalyankar & Palladwar, 1977

1977. *T. spinophlyctis* Kalyankar & Palladwar, *Marath. Univ. J. Sci.*, **16**: (Sci no., 90): 229-232.

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Maharashtra (Aurangabad)*



**31. *Tremiorchis jamshedpurensis* Hasnain, 1989**

1989. *T. jamshedpurensis* Hasnain, *Ind. J. Helm.*, **41** (Supple): 78-82

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Jharkhand (Then Bihar): Jamshedpur*

**32. *Tremiorchis jaini* Srivastava & Saxena, 1933**

*Ref. insect.tamu.edu/research/collection/.../Brachycoeliidae*

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India*

Subfamily MESOCOELIINAE Faust, 1924

8. Genus *Mesocoelium* Odhner, 1910

**33. *Mesocoelium sociale* (Luhe, 1901) Odhner, 1910**

1901. *Distomum sociale* Luhe, *Ctbl. Bakt. I. Abt.*, **30**: 166-177.

1910. *Mesocoelium sociale* Odhner *Zool. Anz.*, **25** (12-13): 353-356.

*Host: Duttaphrynus (=Bufo) melanostictus, Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India*

*Elsewhere: Myanmar (then Burma), Philippines*

**34. *Mesocoelium varunae* Baugh, 1957**

1957. *M. varunae* Baugh, *Proc. Acad. Sci. India*, **26**: 295-313.

*Host: Duttaphrynus (=Bufo) melanostictus*

*Location: Intestine*

*Distribution: India; Uttar Pradesh (Varanasi)*

**35. *Mesocoelium monas* (Rud., 1819) Freitas, 1958**

1819. *Distoma monas* Rudolphi, *Berol.*, 811p.

1958. *Mesocoelium monas* Freitas, *Rev. Brasil. Biol.*, **18** (2): 171-174

*Host: Amphisbaena* sp.

*Location: Intestine*

*Distribution: India: Uttar Pradesh*

36. *Mesocoelium asymmetrovitellarius* Kumari & Verma, 1993

Ref.: [insect.tamu.edu/research/collection/.../Brachycoeliidae](http://insect.tamu.edu/research/collection/.../Brachycoeliidae)

Host: Frog

Location: Intestine

Distribution: India

37. *Mesocoelium melanostictii* Rao, 1989

Ref.: [insect.tamu.edu/research/collection/.../Brachycoeliidae](http://insect.tamu.edu/research/collection/.../Brachycoeliidae)

Host: *Duttaphrynus (=Bufo) melanostictus*

Location: Intestine

Distribution: India

38. *Mesocoelium melanostictusi* Singh & Prashad, 1984

Ref.: [insect.tamu.edu/research/collection/.../Brachycoeliidae](http://insect.tamu.edu/research/collection/.../Brachycoeliidae)

Host: *Duttaphrynus (=Bufo) melanostictus*

Location: Intestine

Distribution: India

39. *Mesocoelium thapari* Gupta & Jahan, 1974

1974. *M. thapari* Gupta & Jahan, *Ind. J. Helm.*, 28 (2): 141-145.

Host: Frog

Location: Intestine

Distribution: India

6. Family HEMIURIDAE Luhe, 1901

Subfamily HALIPEGINAE Ejsmont, 1931

9. Genus *Halipegus* Looss, 1899

40. *Halipegus ovocaudatus* (Vulpian, 1859) Looss, 1899

1859. *Distomum ovocaudatus*, Vulpian *Compt. Rend. Sc. Biol.*, 5: 150-152.

1899. *Halipegus ovocaudatus* Looss, *Zool. Jahrb. Syst.*, 12: 521-784.

Host: Frog

Location: Intestine

Distribution: India: Andhra Pradesh

41. *Halipegus longispina* Klein, 1905

1905. *H. longispina* Klein, *Zool. Jahrb.*, 22: 1-22.

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India*

*Elsewhere: Myanmar (Then Burma), Sri Lanka (Then Ceylon)*

**42. *Halipegus mehransis* Srivastava, 1933**

1933. *H. mehransis* Srivastava, *Bull. Acad. Sc. U.P. Agra and Oudh. Allahabad*, **3** (1): 41-60.

*Host: Euphlyctis (=Rana) cyanophlyctis & Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Stomach & Intestine*

*Distribution: India: Uttar Pradesh, Maharashtra*

*Elsewhere: Myanmar (Then Burma), Sri Lanka (Then Ceylon)*

**43. *Halipegus mehransis mehransis* Srivastava, 1933**

1933. *H. mehransis mehransis* Srivastava, *Bull. Acad. Sci. U.P. Agra & Oudh Allahabad*, **3** (1): 41-60.

*Host: Euphlyctis (=Rana) cyanophlyctis & Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Stomach*

*Distribution: India*

*Elsewhere: Myanmar (Then Burma), Sri Lanka (Then Ceylon)*

**44. *Halipegus mehransis minutus* Srivastava, 1933**

1933. *H. mehransis minutus* Srivastava, *Bull. Acad. Sc. U.P. Agra and Oudh, Allahabad*, **3**(1): 41-60.

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Stomach*

*Distribution: India*

**45. *Halipegus spindalis* Srivastava, 1933**

1933. *H. spindalis* Srivastava, *Bull. Acad. Sc. U.P. Agra and Oudh. Allahabad*, **3**(1): 41-60.

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Stomach & Intestine*

*Distribution: India*

**46. *Halipegus udaipurensis* Gupta et Agrawal, 1967**

1967. *H. udaipurensis* Gupta et Agrawal, *Ind. J. Helm.*, **19**(1): 77-80.

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Rajasthan*

47. *Halipegus occidualis* Stafford, 19051905. *H. occidualis* Stafford, *Zool. Anz.*, **28** (21-22): 681-694.*Host: Duttaphrynus (=Bufo) melanostictus**Location: Intestine**Distribution: India*48. *Halipegus ambalensis* Gupta & Chopra, 19861986. *H. ambalensis* Gupta et Chopra, *Res. Bull. Punjab Univ., (Sci.)* **37** (3-4): 45-79.*Host: Euphlyctis (=Rana) cyanophlyctis**Location: Intestine**Distribution: India: Haryana (Then Punjab): Ambala*10. Genus *Genarchopsis* Ozaki, 192549. *Genarchopsis melanostictus* Dwivedi, 19651965. *G. melanostictus* Dwivedi, *Ind. J. Helm.*, **17**(1): 37-42.*Host: Duttaphrynus (=Bufo) melanostictus**Location: Stomach**Distribution: India: Madhya Pradesh (Jabalpore)*

## 7. Family MACROPHALLIDAE (Ward, 1901) Travassos, 1920

## Subfamily MICROPHALLINAE Ward, 1901

11. Genus *Allomicrophallus* Yamaguti, 197050. *Allomicrophallus dicaecus* (Mukherjee & Ghosh, 1967) Yamaguti, 19701967. *Microphallus dicaecus* Mukherjee & Ghosh, *Zool. Anz.*, **178**: (5-6): 342-347.1970. *Allomicrophallus dicaeus* Yamaguti *Syst. Helminthum*: 364*Host: Hoplobatrachus tigrinus (=Rana. tigrina)**Location: Intestine**Distribution: India: West Bengal, Sujapur*

## Subfamily MEGALOTRIOTREMATINAE (Rao, 1969)

12. Genus: *Megalotriotrema* Rao, 196951. *Megalotriotrema hispidum* Rao, 19691969. *M. hispidum* Rao, *Ann. Par.*, **44**(2): 125-130.*Host: Euphlyctis tigrina**Location: Intestine**Distribution: India: Uttarakhand (Garhwal); Andhra Pradesh (Hyderabad)*

52. *Megalotriotrema dicaceus* (Mukherjee & Ghosh, 1967) Rao, 1969

1969. *Megalotriotrema dicaceus* Rao, *Ann. Par.*, **44**(2):125-130.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India

## 8. Family Lecithodendiidae (Luhe, 1901) Odhner, 1901

Subfamily Ganeoninae Yamaguti, 1958

13. Genus *Ganeo* Klein, 1905

53. *Ganeo glottoides* Klein, 1905

1905. *G. glottoides* Klein, *Zool. Jahrb.*, **22**: 1-22.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*), *Euphlyctis* (= *Rana*) *hexadactyla*

*Location:* Intestine

*Distribution:* India

54. *Ganeo glottoides glottoides* Klein, 1905

1905. *G. glottoides glottoides* Klein, *Zool. Jahrb.*, **22**: 1-22.

*Host:* *Euphlyctis* (= *Rana*) *hexadactyla*, *Hoplobatrachus tigrinus* (*Rana tigrina*)

*Location:* Intestine

*Distribution:* India

*Elsewhere:* Sri Lanka (Then Ceylon) [Colombo]

55. *Ganeo attenuatus* Srivastava, 1933

1933. *G. attenuatus* Srivastava, *Bull. Acad. Sc. U.P. Agra and Oudh, Allahabad*, **3**(1): 41-60.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India

56. *Ganeo bufonis* (Fotedar, 1959)

1959. *G. bufonis* Fotedar, *J. Helm.*, **33** (2/3): 151-160.

*Host:* *Duttaphrynus* (= *Bufo*) *viridis*

*Location:* Intestine

*Distribution:* India: Jammu & Kashmir

57. *Ganeogastricus* Srivastava, 1933

1933. *Ganeo gastricus* Srivastava, *Bull. Acad. Sci. U.P. Agra and Oudh Allahabad*, **3**(1): 41-60.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Stomach

*Distribution:* India

58. *Ganeo glottoidea madrasensis* Mehra & Negi, 1928

1928. *G. glottoidea madrasensis* Mehra & Negi, *Allahabad Univ. Stud.*, 4: 63-118.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India

59. *Ganeo korkei* Bhalerao, 1936

1936. *G. korkei* Bhalerao, *Ind. J. Helm.*, 14(4): 136-180.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*), *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India: Orissa (Konark)

*Elsewhere:* Myanmar (Then Burma), Sri Lanka (then Ceylon)

60. *Ganeo kumaonensis* Pande, 1937

1937. *G. kumaonensis* Pande, *Proc. Ind. Acad. Sc.*, 6(2): 109-120.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*, *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India: Uttarakhand (Kumaon)

*Elsewhere:* Pakistan, Sri Lanka (then Ceylon)

61. *Ganeo punjabensis* Gupta, 1954

1954. *G. punjabensis* Gupta, *Res. Bull. Punjab Univ. Zool.*, 55: 125-129

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India: Punjab

62. *Ganeo srinagarensis* Kaw, 1950

1950. *G. srinagarensis* Kaw, *Ind. J. Helm.*, 2(2): 67-126.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India: Jammu & Kashmir

63. *Ganeo tigrinum* Mehra & Negi, 1928

1928. *G. tigrinum* Mehra & Negi, *Allahabad Univ. Stud.*, 4: 63-118.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India

*Elsewhere:* Cosmopolitan

64. *Ganeo gazipurensis* Pandey & Chakraborty, 1968

1969. *G. gazipurensis* Pandey, & Chakraborty *Sci. & Cult.*, **34**: 18-19.

*Host:* *Euphlyctis* (=Rana) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India: Uttar Pradesh, Arunachal Pradesh, Tamil Nadu, Jammu & Kashmir, Maharashtra, Andhra Pradesh, Rajasthan.

*Elsewhere:* Bangladesh, Myanmar

65. *Ganeo ankholensis* Hafeezullah & Dutta, 1985

1985. *G. ankholensis* Hafeezullah & Dutta, *Bull. Zool. Surv. India*, **7**: 69-82

*Host:* *Euphlyctis* (=Rana) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India: West Bengal (Ankhola, Bakkhali, 24 Parganas); Orissa (Gopalpur, Chandipur); Meghalaya (Shillong)

66. *Ganeo vitellosinistrum* Dwivedi & Chauhan, 1971

1971. *G. vitellosinistrum* Dwivedi & Chauhan, *J. Zool. Soc. India*, **22** (1/2): 165-172.

*Host:* *Limnonectes* (=Rana) *limnocharis*

*Location:* Intestine

*Distribution:* India: Madhya Pradesh (Jabalpur)

67. *Ganeo kawi* Dwivedi & Chauhan, 1971

1971. *G. kawi* Dwivedi & Chauhan, *J. Zool. Soc. Ind.*, **22**(1/2): 165-172.

*Host:* *Hoplobatrachus tigrinus* (=Rana *tigrina*)

*Location:* Intestine

*Distribution:* India: Madhya Pradesh (Chhindwara)

68. *Ganeo bahurai* Ghosh & Chauhan, 1982

1982. *G. bahurai* Ghosh & Chauhan, *Pranikee* **3**: 1-6

*Host:* *Euphlyctis* (=Rana) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India

69. *Ganeo lucknowensis* Gupta & Jahan, 19761978. *G. lucknowensis* Gupta & Jahan, *Ind. J. Helm.*, **28** (2): 141-145.*Host*: *Duttaphrynus* (= *Bufo*) *melanostictus**Location*: Urinary bladder*Distribution*: India: Uttar Pradesh (Lucknow), Arunachal Pradesh

## Subfamily PLEUROGENINAE Travassos, 1921

14. Genus *Pleurogenoides* Luhe, 190170. *Pleurogenoides gastroporus* (Luhe, 1901) Travassos, 19211901. *Distomum gastroporus* Luhe, *Zentbl. Bacterial Parasit.* **30-40**: 166-177.1921. *P. gastroporus* Travassos, *Arch. Ds. Esc. Sup. De Agric. Med. Vet. Nichtharay*, **5** (1-20): 73-79*Host*: *Euphlyctis* (= *Rana*) *cyanophlyctis**Location*: Intestine*Distribution*: India: West Bengal, Uttar Pradesh, Meghalaya, Tripura, Maharashtra, Uttarakhand, Rajasthan, Arunachal Pradesh71. *Pleurogenoides bufonis* Kaw, 19431943. *P. bufonis* Kaw, *Proc. Ind. Acad. Sci.*, **18s. B.**: 97-108.*Host*: *Duttaphrynus* (= *Bufo*) *viridis**Location*: Intestine*Distribution*: India: Jammu & Kashmir72. *Pleurogenoides medians* var. *equalis* Mehra & Negi, 19281928. *P. medians* var. *equalis* Mehra & Negi, *Allahabad Univ. Stud.*, **4**: 63-113*Host*: *Hoplobatrachus tigrinus* (= *Rana tigrina*)*Location*: Intestine*Distribution*: India73. *Pleurogenoides sitapuri* (Srivastava, 1934) Kaw, 19431934. *Pleurogenes sitapuri* Srivastava, *Bull Acad. Sc. U.P. Agra and Oudh. Allahabad*, **3**(4): 239-2561943. *Pleurogenoides sitapuri* Kaw, *Proc. Ind. Acad. Sc.*, **18 s. B.**: 97-108*Host*: *Euphlyctis* (= *Rana*) *cyanophlyctis**Location*: Intestine*Distribution*: India74. *Pleurogenoides sphaericus* (Klein, 1905) Travassos, 19211905. *Distomum sphaericus* Klein, *Zool. Jahrb.* **22**: 1-22



1921. *Pleurogenoides sphaericus* Travassos, *Arch. Da Esc. Sup. De Agric. E Med. Vet. Nichtheroy*, 5 (1-2): 73-79.

*Host: Euphlyctis (=Rana) hexadactyla*

*Location: Intestine*

*Distribution: India*

**75. *Pleurogenoides solus* (Johnston, 1912) Travassos, 1930**

1912. *P. solus* Johnston, *Proc. Linn. Soc. N. S. Wales*, 27 (3): 326-330.

1930. *P. solus* Travassos, *Mem. Inst. Osw. Cruz. Suppl.*, 24(2): 63-71.

*Host: Frog*

*Location: Intestine*

*Distribution: India*

**76. *Pleurogenoides ovatus* Rao, 1977**

1977. *P. ovatus* Rao, *Revista de Parasit.*, 38 (1): 23-29.

*Host: Hoplobatrachus tigrinus (=Rana tigrina) and Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Andhra Pradesh: Hyderabad*

**77. *Pleurogenoides jamshedpurensis* Hasnain & Sahay, 1988**

*Ref. insect.tamu.edu/research/collection/.../Pleurogeninae*

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Jharkhand (then Bihar) (Jamshedpur)*

**78. *Pleurogenoides ranchiensis* Dan & Sahay, 1991**

*Ref.: insect.tamu.edu/research/collection/.../Pleurogeninae*

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Jharkhand (Ranchi)*

**79. *Pleurogenoides sahranensis* Chakrabarti et al, 2011**

2011. *P. sahransis* Chakrabarti et al., *J. Interacad.*, 15 (4): 610-615.

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Himachal Pradesh (Sahran)*

80. *Pleurogenoides orientalis* Srivastava, 1934

1934. *P. orientalis* Srivastava, *Bull. Acad. Sci. U.P. Agra and Oudh Allahabad*, 3(4): 239-256.

*Host: Euphlyctis (=Rana) cyanophlyctis & Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India: Sitapur*

*Elsewhere: East Pakistan (Now Bangladesh)*

81. *Pleurogenoides amritsarensis* Gupta & Chopra, 1984

*Ref.: insect.tamu.edu/research/collection/.../Pleurogeninae*

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India: Punjab (Amritsar)*

82. *Pleurogenoides gastroporus* var. *equalis* Mehra & Negi, 1928

1926. *P. gastroporus* var. *equalis* Mehra & Negi, *Allahabad Univ. Stud.*, 4: 63-118

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India*

15. Genus *Pleurogenes* Looss, 1896

83. *Pleurogenes prayagi* Mehra & Negi, 1926

*Ref.: insect.tamu.edu/research/collection/.../Pleurogeninae*

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Intestine*

*Distribution: India*

84. *Pleurogenes (Telogonella) swarensis* Gupta, 1954

1954. *P. (Telogonella) swarensis* Gupta, *Res. Bull. Punjab Univ. Zool.*, (58): 143-148.

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India*

16. Genus *Indopleurogenes* Yamaguti, 1971

85. *Indopleurogenes amritsarensis* Gupta & Chopra, 1984

1984. *I. amritsarensis* Gupta & Chopra, *Res. Bull. Punjab Univ. (Sci)* 35 (1/2): 11-18

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location:* Rectum

*Distribution:* India: Punjab

86. *Indopleurogenes orientalis* (Srivastava, 1934)

1934. *Pleurogenes orientalis* Srivastava, *Bull. Acad. Sci. U.P. Agra and Oudh. Allahabad*, **3** (4): 239-256.

*Host:* *Euphlyctis* (=Rana) *cyanophlyctus* & *Hoplobatrachus tigrinus* (=Rana *tigrina*)

*Location:* Intestine

*Distribution:* India: Sitapur

*Elsewhere:* East Pakistan (Now Bangladesh)

17. Genus *Loxogenes* Stafford, 1905

87. *Loxogenes kashmirensis* (Kaw, 1950) Yamaguti, 1958

1950. *Nenimandijea kashmirensis* Kaw, *Ind. J. Helm.*, **2** (2): 67-126.

1958. *L. kashmirensis* Yamaguti *Systema Helminthum*, **1**: 1575 pp.

*Host:* *Euphlyctis*(=Rana) *cyanophlyctis*, *Duttaphrynus* (=Bufo) *viridis*

*Location:* Intestine

*Distribution:* India: Jammu & Kashmir

88. *Loxogenes jammuensis* Duda *et al.*, 1999

*Ref.* [insect.tamu.edu/research/collection/.../Pleurogeninae](http://insect.tamu.edu/research/collection/.../Pleurogeninae)

*Host:* Frog

*Location:* Intestine

*Distribution:* India: Jammu & Kashmir

89. *Loxogenes staffordii* Verma *et Sahay*, 1958

*Ref.* [insect.tamu.edu/research/.../Pleurogeninae](http://insect.tamu.edu/research/.../Pleurogeninae)

*Host:* *Hoplobatrachus tigrinus* (=Rana *tigrina*)

*Location:* Intestine

*Distribution:* India

18. Genus *Paraindopleurogenoides* Kalyankar & Palledwar, 1977

90. *Paraindopleurogenoides dagaduji* Kalyankar & Palledwar, 1977

1977. *P. dagaduji* Kalyankar & Palledwar, *Revista Iber. de Parasit.* **37** (3/4): 319-327.

*Host:* *Euphlyctis* (=Rana) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India: Maharashtra

91. *Paraindopleurogenoides inversus* Kalyankar & Palledwar, 1977

1977. *P. inversus* Kalyankar & Palledwar *Revista Iber. de Parasit.* **37** (3/4): 319-327.

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Maharashtra*

Genus *Pleuroorchis* Fotedar, 1974

92. *Pleuroorchis nenei* Fotedar, 1974.

1974. *P. nenei* Fotedar, *Proc. Ind. Sci. Cong. Asso.*, **57** (B): 454-455

*Host: Duttaphrynus (=Bufo) viridis*

*Location: Intestine*

*Distribution: India: Kashmir*

Subfamily PROSOTOCINAE Yamaguti, 1958

20. Genus *Mehraorchis* Srivastava, 1934

93. *Mehraorchis ranarum* Srivastava, 1934

1934. *M. ranarum* Srivastava, *Bull. Acad. Sc. U.P. Agra and Oudh. Allahabad*, **3** (4): 239-256

*Host: Euphlyctis (=Rana) cyanophlyctis & Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Gall Bladder*

*Distribution: India: Uttar Pradesh, Rajasthan*

94. *Mehraorchis tigrinarum* Gupta, 1954

1954. *M. tigrinarum* Gupta, *Res. Bull. Punjab Univ.*, **53**: 117-120

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Stomach*

*Distribution: India: Punjab*

95. *Mehraorchis jainiformis* Bhardwaj, 1963

1963. *M. jainiformis* Bhardwaj, *Proc. Nat. Acad. Sci. India*, **33** (3) Sect B: 345-354

*Host: Hoplobatrachus tigrinus (=Rana tigrina)*

*Location: Gall Bladder*

*Distribution: India*

96. *Mehraorchis cyanophlyctus* Karyakarte, 1970

*Ref. insect.tamu.edu/research/collection/.../Prosotocinae*

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location:* Intestine

*Distribution:* India: Maharashtra (Aurangabad)

21. Genus *Prosotocus* Looss, 1899

97. *Prosotocus confusus indianus* Mehra, 1926

*Ref.* [insect.tamu.edu/research/collection/.../Prosotocinae](http://insect.tamu.edu/research/collection/.../Prosotocinae)

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India

98. *Prosotocus dorsoporus* Murhar, 1960

1960. *P. dorsoporus* Murhar *Bull. Zool. Soc. Coll. Sc. Nagpur*, 2: 37-40.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India: Maharashtra

99. *Prosotocus himalayai* Pande, 1937

1937. *P. himalayai* Pande, *Proc. Nat. Acad. Sc. India.*, 7 (3): 202-204.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India

100. *Prosotocus kashabia* Kaw, 1943

1943. *P. kashabia* Kaw, *Proc. Ind. Acad. Sc.*, 18, S. B.: 97-108.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India: Kashmir, Punjab

101. *Prosotocus infrequentus* Srivastava, 1933

1933. *P. infrequentus* Srivastava, *Bull. Acad. Sc. U.P. Agra and Oudh Allahabad*, 3 (2): 99-112.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India

102. *Prosotocus partapus* Kaw, 1950

1950. *P. partapus* Kaw, *Proc. Ind. Acad. Sc.*, 18, S. B.: 97-108.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India

**103. *Prosotocus poroformis* Bhardwaj, 1963**

1963. *P. poroformis* Bhardwaj, *Proc. Nat. Acad. Sc. India*, **33** (3) Sect B.: 345-354.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India: West coastal region

**104. *Prosotocus tigrinum* Bhardwaj, 1963**

1963. *P. tigrinum* Bhardwaj, *Proc. Nat. Acad. Sc. India*, **33** (3) Sect. B: 345-354.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India: West coastal zone

**105. *Prosotocus baughi* Pandey, 1973**

1973. *P. baughi* Pandey, *Indian J. Zootomy*, **14** (30): 197-219.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India: Uttar Pradesh

**106. *Prosotocus bengalensis* Hafeezullah & Dutta, 1985**

1985. *P. bengalensis* Hafeezullah & Dutta, *Bull. Zool. Surv. India*, **7**: 69-82.

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*

*Location:* Intestine

*Distribution:* India: West Bengal

**107. *Prosotocus simhali* Rao, 1977**

1977. *P. simhali* Rao, *Res. Bull. Punjab Uni. N.S.*, **24** (3/4): 179-181.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Locality:* India: Rajasthan

**108. *Prosotocus gussevi* Gupta & Jain, 1922**

*Ref.:* [insect.tamu.edu/research/collection/...../Prosotocinae](http://insect.tamu.edu/research/collection/...../Prosotocinae)

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India: Uttar Pradesh

109. *Prosotocus kherai* Sharma, 1988

*Ref.:* [insect.tamu.edu/research/collection/.../Prosotocinae](http://insect.tamu.edu/research/collection/.../Prosotocinae)

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India

110. *Prosotocus indicus* Mehra & Negi, 1928

1928. *P. indicus* Mehra & Negi, *Allahabad Univ. Stud.*, 4: 63-118.

*Host:* *Hoplobatrachus tigrinus* (= *Rana tigrina*)

*Location:* Intestine

*Distribution:* India

9. Family PROTERODIPLOSTOMIDAE Dubois, 1936

Subfamily PROALAROIDINAE Yamaguti, 1933

22. Genus *Proalaroides* Yamaguti, 1933

111. *Proalaroides tropidonotis* Vidyarthi, 1937

1937. *P. tropidonotis* Vidyarthi, *Ann. Mag. Nat. Hist. s.* 10, 20: 549-553

*Host:* *Euphlyctis* (= *Rana*) *cyanophlyctis*, *Hoplobatrachus tigrinus* (= *Rana tigrina*), *Duttaphrynus* (= *Bufo*) *melanostictus*

*Location:* Intestine

*Distribution:* India: West Bengal (Kolkata, N.24 Parganas, S.24 Parganas, Howrah and Purulia), Uttar Pradesh (Bareilly)

10. Family PLAGIORCHIIDAE (Luhe, 1901) Ward, 1907

Subfamily ASTIOTREMATINAE Baer, 1924

23. Genus *Astiotrema* Looss, 1900

112. *Astiotrema sudarshani* Mukherjee & Ghosh, 1970

1970. *A. sudarshani* Mukherjee & Ghosh, *Ind. J. Helm.*, 22 (1): 61-78.

*Host:* *Duttaphrynus* (= *Bufo*) *melanostictus*

*Location:* Intestine

*Distribution:* India: West Bengal (Birati)

113. *Astiotrema reniferum* (Looss, 1908) Stossich, 1904

1819. *Distoma reniferum* Looss, *Zool. Jahrb. Syst.*, 12: 521-784.

1904. *Astiotrema reniferum* Stossich, *Ann. Mus. Zool. R. Univ. Napoli. n.s.* (16): 1-2.

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: West Bengal*

114. *Astiotrema siddiqui* Lal & Prashad, 1980

1980. *A. siddiqui* Lal & Prashad, *Ind. J. Helm.*, **32**: 93-95.

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Bihar (Patna)*

11. Family ECHINOSTOMATIDAE Poche, 1926

Subfamily ECHINOSTOMATINAE Faust, 1929

24. Genus *Artyfechinostomum* Lane, 1915

115. *Artyfechinostomum sufrartyfex* Lane, 1915

1915. *A. sufrartyfex* Lane, *Ind. J. Med. Res.*, **2** (4): 977-983

*Host: Euphlyctis (=Rana) cyanophlyctis*

*Location: Intestine*

*Distribution: India: Uttar Pradesh (Raya, Mathura)*

12. Family BATRACHOTREMATIDAE Dollfus & Williams, 1966

25. Genus *Batrachotrema* Dollfus & Williams, 1966

116. *Batrachotrema nagalandensis* Tandon & Prasad, 2005

2005. *B. nagalandensis* Tandon & Prasad, *Zoo's Print Journal*, **20** (6): 1883-1887.

*Host: Amolops afghanus, Euphlyctis (=Rana) khare*

*Location: Intestine*

*Distribution: India: Mokokchung, Nagaland*

26. Genus *Opisthoparorchis* Wang, 1980

117. *Opisthoparorchis indica* Wang, 1980

1980. *O. indica* Wang, *J. Fuj. Nor. Univ.*, **1**: 81-82

*Host: Amolops afghanus* (Gunther)

*Location: Intestine*

*Distribution: India: Nagaland (Mokokchung)*

*Elsewhere: South China (Fujian)*

118. *Opisthorchis yunnanse* Li, 1996

1996. *O. yunnanse* Li, *Ann. Bull. Soc. Parasit. Guangdong Province*, **18**: 60-63.



*Host: Euphlyctis (=Rana) liebighii*

*Location: Intestine*

*Distribution: India: Nagaland (Kohima)*

*Elsewhere: Yunnal Province.*

### SUMMARY

An amphibian literally means "double life" and was first used by Linnaeus and refers to the ability of these animals to live in water or on land at different times. In the aquatic phase, gills help to absorb oxygen from the water. While some amphibians retain gills throughout life and never leave the water permanently, in most species gills are gradually absorbed. At the same time they develop lungs which begin to function, at the end of metamorphosis.

Amphibians harbor a good number of trematode parasites in their internal organisms by intaking the larval forms of it from the intermediate host, i.e. snail. Digenetic Trematodes are endoparasites found as adult in the digestive system, respiratory system, gall bladder, bile duct, liver, pancreatic duct etc. of amphibian hosts. Some are known to inhibit the connective tissue of muscle of their hosts. The digestive tract is the most commonly preferred habitat.

Digenetic Trematodes of amphibians are residing within their host without causing any harm to them and showing a good example of symbiotic effect. Healthy amphibians showing a comprehensive infection proves the fact of symbiocity.

The present communication deals with the compilation of the records (till date) of the digenetic Trematodes from the Amphibian hosts of India to ensure the host specificity and endemicity as well.

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### DEDICATION

Present communications are dedicated to Prof. K.C. Pandey, Former Vice Chancellor, Lucknow University and to Prof. Veena Tandon, Vice Chancellor, NEHU.

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