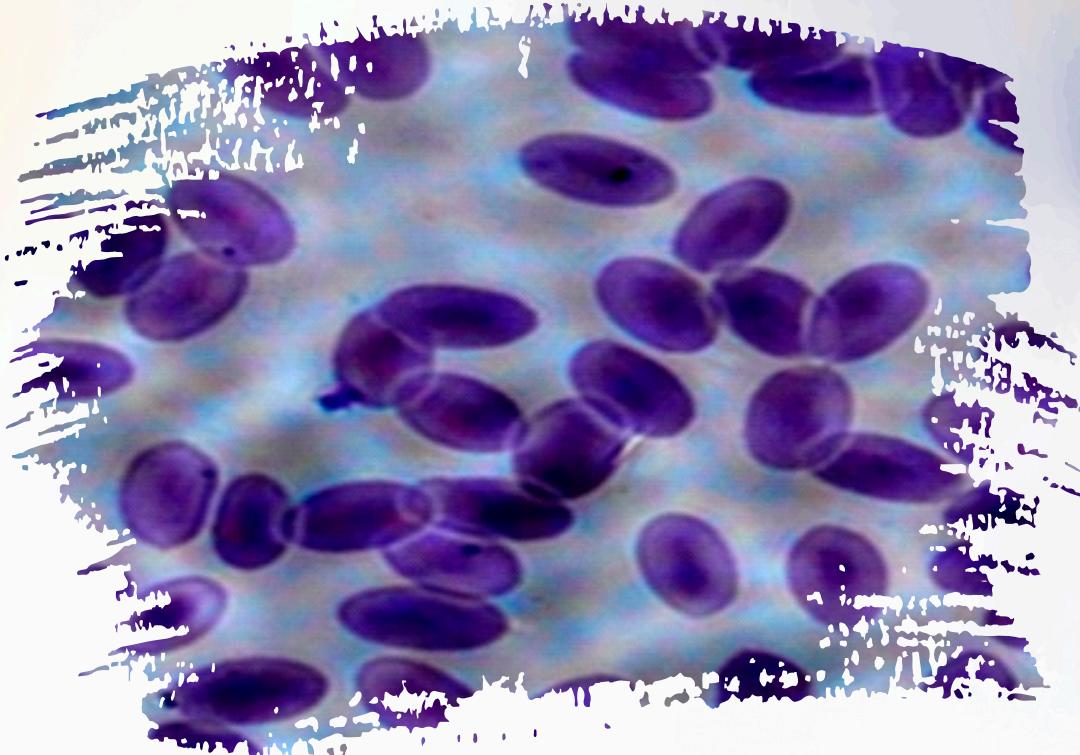


# FAUNA OF INDIA CHECKLIST

ONLINE VERSION 1.0



## PROTISTA: ALVEOLATA: APICOMPLEXA, Levine, 1970

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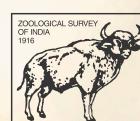
**Key words:** Apicomplexa, heterotrophic, India, checklist, parasitic protozoa biodiversity.

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**Comments on the checklist:**

E-mail your comments  
and suggestions to improve  
the checklist to

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**ZOOLOGICAL SURVEY OF INDIA**  
Ministry of Environment, Forest & Climate Change

# PROTISTA: ALVEOLATA: APICOMPLEXA, Levine, 1970

Patatri Sarkar<sup>1,3</sup> & Jasmine Purushothaman<sup>1,2\*</sup>

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**Introduction:** The Apicomplexa phylum, often known as Apicomplexia, is a significant group of parasitic alveolate organisms. The bulk of them contains a complex apical structure and a unique type of organelle known as an apicoplast, a plastid that is not photosynthetic. The organelle serves as a modification for the apicomplexan to enter the host cell. The apicomplexans are unicellular creatures that produce spores. The majority of organisms are obligatory animal endoparasites, except *Nephromyces*, a symbiont found in aquatic creatures. The name Apicomplexa is derived from the Latin word "apex" (meaning "top") and "complexus" (meaning "infolds"), which relate to the collection of organelles in the sporozoite. The phylum Apicomplexa includes the majority of what was once referred to as the Sporozoa, a class of parasitic protozoans lacking flagella, cilia, or pseudopods. The bulk of the Apicomplexa, on the other hand, have a gliding system that depends on adhesions and tiny static myosin motors. A range of morphologies are present in apicomplexans in addition to the maintained apical complex. Size, shape, and subcellular organization can change significantly between animals within the apicomplexan phylum as well as between distinct apicomplexan life stages. Apicomplexa has a nucleus, endoplasmic reticulum, and Golgi complex, just like other eukaryotes. Except for species of *Cryptosporidium* and *Gregarina niphandrodes*, all apicomplexans have a single mitochondrion and a second endosymbiont-derived organelle known as the apicoplast that maintains a separate 35-kilobase circular genome.

**Global diversity:** More than 6,000 species belonging to 300 genera and 60 families have been described for the huge group of parasitic protists, the phylum Apicomplexa, and there may be thousands more.

**Diversity in India:** In India, 321 species belonging to 21 genera and 12 families are recorded.

## Diversity in States (Table)

Sl.No.	State/Union Territory	No. Species	No. Endemic Species
1	Andhra Pradesh	14	
2	Arunachal Pradesh	1	
3	Assam	6	
4	Bihar	17	
5	Chhattisgarh	8	
6	Gujarat	12	
7	Goa	11	
8	Haryana	13	
9	Himachal Pradesh	1	
10	Jharkhand	6	
11	Karnataka	7	
12	Kerala	5	

Sl.No.	State/Union Territory	No. Species	No. Endemic Species
13	Madhya Pradesh	16	
14	Maharashtra	19	
15	Manipur	5	
16	Meghalaya	4	
17	Mizoram	2	
18	Nagaland	2	
19	Odisha	8	
20	Punjab	11	
21	Rajasthan	6	
22	Sikkim	2	
23	Tamil Nadu	4	
24	Telangana	9	
25	Tripura	8	
26	Uttar Pradesh	19	
27	Uttarakhand	2	
28	West Bengal	64	
29	Andaman & Nicobar	10	
30	Chandigarh	3	
31	Dadra Nagar Haveli, Daman & Diu	2	
32	Delhi	12	
33	Jammu & Kashmir	7	
34	Ladakh	3	
35	Lakshadweep	1	
36	Puducherry	1	
<b>INDIA TOTAL</b>		<b>321</b>	<b>0</b>

NA

**Endemism:** No species of the phylum Apicomplexa are endemic to India.

**Habitat:** Humans and terrestrial animals are both parasitized by the phylum Apicomplexa, which has also been linked to parasitic disorders in marine and freshwater animals.

**Ecological Significance:** The extensive range and high representativity of phylum Apicomplexa suggests it can also represent an alternate heterotrophic channel for moving carbon within the trophic web. Parasites are essential to the food chain and operate as host regulators.

**Human Significance:** The parasites of the phylum Apicomplexa have been linked to parasitic disorders in both marine and terrestrial animals. Babesiosis, Cryptosporidiosis, Cystoisosporiasis, Malaria, and Toxoplasmosis are a few parasite disorders caused by Apicomplexa that are significant economically.

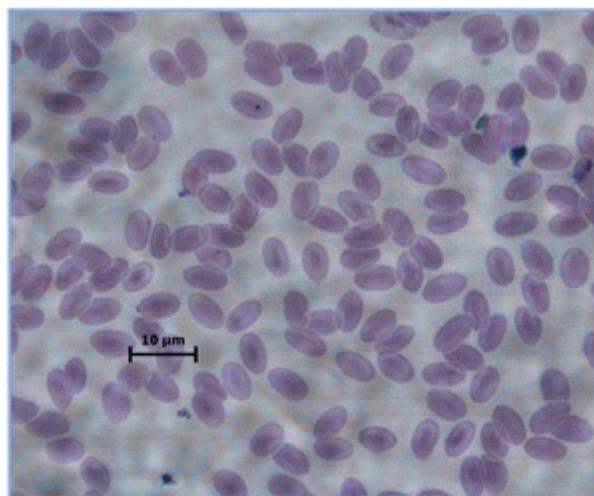
**Threatened species:** Species of the phylum Apicomplexa from India are not assessed for IUCN threat categories.

**Protected Species as per WPA (2022):** Species of the phylum Apicomplexa are not listed under any schedules of Wildlife Protection Act (2022).

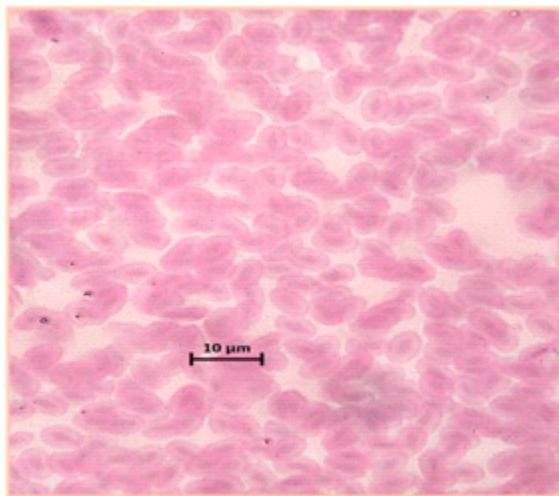
**Species under CITES:** Species of the phylum Apicomplexa are not listed under any appendices of CITES.

**Invasive alien species:** No apicomplexan species are reported to be invasive in India.

**Gap areas:** In India, very few apicomplexan studies are carried out. In order to accurately learn about the diversity of apicomplexans in India, it is crucial to conduct a thorough study of apicomplexans. Many species have not been reported in recent years and are only known from type collections.



*Haemoproteus columbae* (Kruse, 1890) from host  
*Columba livia* (Gmelin, 1789)



*Haemoproteus glaucidii* (de Mello, 1936) from  
host *Glaucidium radiatum* (Tickell, 1833)

Sl. No.	Species
	Phylum APICOMPLEXA
	Class ACONOIDASIDA
	Order CHROMATORIDA, Euzéby, 1988
	Family HAEMOPROTEIDAE
	Genus <i>Haemoproteus</i> Kruse, 1890
1	<i>Haemoproteus columbae</i> Kruse, 1890
2	<i>Haemoproteus dicruri</i> de Mello, 1935
3	<i>Haemoproteus fallisi</i> Bennett and Campbell, 1972
4	<i>Haemoproteus fringillae</i> Labbe, 1894
5	<i>Haemoproteus laniii</i> de Mello, 1937
6	<i>Haemoproteus meropis</i> (Zargar, 1945)
7	<i>Haemoproteus orizivora</i> Anschutz, 1909
8	<i>Haemoproteus passeris</i> Kruse, 1890
9	<i>Haemoproteus sacharovi</i> Novy and Mac Neal, 1904
10	<i>Haemoproteus velans</i>
11	<i>Haemoproteus sp.</i>
12	<i>Haemoproteus oryzivorae</i>
13	<i>Haemoproteus megapodius</i> Nandi & Mandal
14	<i>Haemoproteus moruony</i> de Mello
15	<i>Haemoproteus meropi</i> Zargar
16	<i>Haemoproteus garnlami</i> Grewal
17	<i>Haemoproteus laniii</i> de Mello
18	<i>Haemoproteus coraciae</i>
19	<i>Haemoproteus bargesi</i> Tendeiro & H. Velaws
20	<i>Haemoproteus sturni</i> de Mello
21	<i>Haemoproteus thereicercycis</i> de Mello
22	<i>Haemoproteus plateleae</i> de Mello
23	<i>Haemoproteus tinnunculus</i> Wasilewski & Walker
24	<i>Haemoproteus celli</i>
25	<i>Haemoproteus borgasi</i>
26	<i>Haemoproteus centropi</i>
27	<i>Haemoproteus microfilama</i>
28	<i>Haemoproteus thereiceryeis</i>
29	<i>Haemoproteus garnhami</i>
30	<i>Haemoproteus fringillae</i>
31	<i>Haemoproteus bennetti</i> Greiner et al.
32	<i>Haemoproteus garrhami</i>
33	<i>Haemoproteus thericeryeis</i>

Sl. No.	Species
34	<i>Haemoproteus ovalis</i> Ray & Choudhury
35	<i>Haemoproteus perinucleophilum</i>
36	<i>Haemoproteus microfilaria</i>
37	<i>Haemoproteus sturni</i>
38	<i>Haemoproteus celli</i> (Contney & Remdaloush)
39	<i>Haemoproteus thereiceryeis</i> (de Mello)
40	<i>Haemoproteus sanguineus</i> (Chakraborty)
41	<i>Haemoproteus aegithinae</i> (de Mello)
42	<i>Haemoproteus fallisi</i> (Bennett & Campbel )
43	<i>Haemoproteus tephrodornis</i> (de Mello)
44	<i>Haemoproteus aegithinae</i> (de Mello)
45	<i>Haemoproteus palseris</i> (Kruse)
46	<i>Haemoproteus morneti</i> Tenduiro
47	<i>Haemoproteus nettionis</i> Joh. & Cl.
48	<i>Haemoproteus elani</i> (de Mello)
49	<i>Haemoproteus balmivali</i>
50	<i>Haemoproteus silnondi</i> Castellani and Willey, 1904
51	<i>Haemoproteus sp.</i>
52	<i>Haemoproteus pastoris</i> de Mello, 1935
53	<i>Haemoproteus syrnii</i> (Mayer)
54	<i>Haemoproteus denilewskii</i> Kruse
Order HAEMOSPORORIDA	
Family PLASMODIIDAE Mesnil, 1903	
Genus <b>Plasmodium</b> Marchiafava & Celli, 1885	
55	<i>Plasmodium falciparum</i> (Welch, 1897)
56	<i>Plasmodium (Novyella) vaughani</i> Novy and Mac Neal, 1904
57	<i>Plasmodium vivax</i> Grassi & Feletti, 1890)
58	<i>Plasmodium malariae</i>
59	<i>Plasmodium ovale</i>
60	<i>Plasmodium polare</i>
61	<i>Plasmodium rouxi</i>
62	<i>Plasmodium relictum</i>
63	<i>Plasmodium fragil</i> Dissanaike et.al
64	<i>Plasmodium inui</i>
65	<i>Plasmodium vinckeii</i> Rodhain, 1952
66	<i>Plasmodium vinckeii vinckeii</i>
67	<i>Plasmodium sp.</i>
68	<i>Plasmodium murinus</i> Dionisi
69	<i>Plasmodium (Novyella) nucleophilum</i> Manwell

Sl. No.	Species
70	<i>Plasmodium solare h. oryziverae + microfilaria</i>
71	<i>Plasmodium pinotti</i> Muniz and Soares, 1954
72	<i>Plasmodium cynomolgi</i> Mayer
73	<i>Plasmodium berghei</i> Vincke and Lips
74	<i>Plasmodium garnhami</i> Guindy, Hoogstral and Mohammed, 1965
75	<i>Plasmodium venkataramiahii</i> Bhaskar Rao, Devi and Bhaskar Rao, 1977
76	<i>Plasmodium knowlesi</i>
77	<i>Plasmodium fallax</i> Schwetz, 1930
78	<i>Plasmodium formosam</i> Manwell, 1962
79	<i>Plasmodium huffi</i> Muniz, Soares and Batista, 1951
80	<i>Plasmodium matuitinum</i> (Huff, 1937)
81	<i>Plasmodium osmaniae</i>
	Family LEUCOCYTOZOIDAE
	Genus <i>Leucocytozoon</i>
82	<i>Leucocytozoon majoris</i>
83	<i>Leucocytozoon dubreuili</i>
84	<i>Leucocytozoon fringillinarum</i>
85	<i>Leucocytozoon toddi</i> Sambon, 1908
86	<i>Leucocytozoon ziemannii</i> (Laveran, 1902)
87	<i>Leucocytozoon sahkaroffi</i> Sambon
88	<i>Leucocytozoon brinonti</i> Mathis & Leger
89	<i>Leucocytozoon danilewskyi</i> (ZIEMAN)
90	<i>Leucocytozoon squamatus</i> (NANDI)
91	<i>Leucocytozoon nyctogornis</i> (NANDI)
92	<i>Leucocytozoon sabraesi</i> Mathis and Leger, 1910
93	<i>Leucocytozoon sp.</i>
94	<i>Akiba caulleryi</i> Mathis and Leger, 1909
	Order PIROPLASMIDA
	Family BABESIIDAE
	Genus <i>Babesia</i> Starcovici, 1893
95	<i>Babesia microti</i> (Franca) Reichenow
96	<i>Babesia bengalensis</i> (BANDYOPADHYAY & RAY)
97	<i>Babesia argentina</i> Lignieres, 1901
98	<i>Babesia bigemina</i> Smith and Kilborne, 1893
99	<i>Babesia sp.</i>
100	<i>Babesia caballi</i>
	Order PIROPLASMIDA
	Family THEILERIIDAE
	Genus <i>Theileria</i>

Sl. No.	Species
101	<i>Theileria hirei</i> Dschunkovsky and Urodschevich, 1924
102	<i>Theileria sp.</i>
103	<i>Theileria equi</i>
	Class CONOIDASIDA
	Order EUCOCCIDIORIDA, Léger & Duboscq, 1910
	Family EIMERIIDAE. Minchin, 1903
	Genus <i>Isospora</i> , Schneider, 1881
104	<i>Isospora gypsi</i> Patnaik and Mohanty, 1969
105	<i>Isospora mayuri</i> Patnaik, 1966
106	<i>Isospora felina</i> Patnaik and Acharjyo, 1971
107	<i>Isospora nandankanani</i> Patnaik and Acharjyo, 1977
108	<i>Isospora felis</i> Wenyon, 1923
109	<i>Isospora pardusi</i> Patnaik and Acharjyo, 1971
110	<i>Isospora suis</i> Biester and Murray, 1934
111	<i>Isospora lacazei</i> (Labbe)
112	<i>Isospora rajulii</i> Satyanarayana charyulu, Subba Rao and Christopher, 1969
113	<i>Isospora bigemina</i> (Stiles, 1891)
114	<i>Isospora stomaticas</i> Chakravarty
115	<i>Isospora wenyonii</i> Ray and Dasgupta
116	<i>Isospora calotesi</i> Bhatia
117	<i>Isospora knowlesi</i> Ray and Dasgupta
118	<i>Isospora minuta</i> Mitra and Dasgupta
119	<i>Isospora bellericae</i> Banik and Ray
120	<i>Isospora bengalensis</i> Mandal and Chakravarty
121	<i>Isospora capistrata</i> Sinha and Sinha
122	<i>Isospora ceylonensis</i> Sinha, Sinha Chattoraj, Bandopadhyay and Ghosh
123	<i>Isospora concinnus</i> Sinha and Sinha
124	<i>Isospora copsychi</i> Paul, Ghosh and Haldar (Linn)
125	<i>Isospora estrildi</i> Paul, Ghosh and Haldar
126	<i>Isospora ginginiana</i> Chakravarty and Kar
127	<i>Isospora lonchurae</i> Mandal and Chakravarty
128	<i>Isospora mandali</i> Paul, Ghosh and Haldar
129	<i>Isospora megalaimae</i> Mandal and Chakravarty
130	<i>Isospora muniae</i> Chakravarty and Kar
131	<i>Isospora psittaculae</i> Chakravarty and Kar
132	<i>Isospora pycnonotae</i> Mandal and Chakravarty
133	<i>Isospora temenuchii</i> Chakravarty and Kar
134	<i>Isospora belli</i> Wenyon
135	<i>Isospora canis</i> Nemeseri

Sl. No.	Species
136	<i>Isospora felis</i> (Wasielewsky)
137	<i>Isospora hominis</i> (Railliet and Lucet)
138	<i>Isospora leonina</i> Mandal and Ray
139	<i>Isospora rovolda</i> (Grassi)
140	<i>Isospora sundarbanensis</i> Ray and Sarkar
141	<i>Isospora tropicalis</i> Mukherjee and Krassner
	Genus <i>Eimeria</i> , Schneider, 1875
142	<i>Eimeria</i> sp. (Schneider, 1875)
143	<i>Eimeria auratae</i> (Eimer, 1870) Schneider, 1875
144	<i>Eimeria laminata</i> n.sp.
145	<i>Eimeria ambassi</i> Patnaik and Acharjyo, 1972
146	<i>Eimeria columbae</i> Mitra and Dasgupta, 1937
147	<i>Eimeria columbarum</i> Nieschulz, 1935
148	<i>Eimeria dispersa</i> Tyzzer, 1929
149	<i>Eimeria acervulina</i> Tyzzer, 1929
150	<i>Eimeria maxima</i> Tyzzer, 1929
151	<i>Eimeria mitis</i> Tyzzer, 1929
152	<i>Eimeria necatrix</i> Johnson, 1930
153	<i>Eimeria tanella</i> Railliet and Lucet, 1891
154	<i>Eimeria adenoeides</i> Moore and Brown, 1951
155	<i>Eimeria meleagrimistis</i> Tyzzer, 1929
156	<i>Eimeria innocua</i> Moore and Brown, 1952
157	<i>Eimeria patnaiki</i> Ray, 1966
158	<i>Eimeria pavonis</i> Mandal, 1965
159	<i>Eimeria ahsata</i> Honess, 1942
160	<i>Eimeria carandelis</i> Honess, 1942
161	<i>Eimeria intricata</i> Spiegel, 1925
162	<i>Eimeria faurei</i> (Moussu and Marotel, 1902)
163	<i>Eimeria arloingi</i> Marotel, 1905
164	<i>Eimeria granulosa</i> Christensen, 1938
165	<i>Eimeria ninakholyakimovi</i> Yakimoff and Rastegaiff, 1930
166	<i>Eimeria parva</i> Cotlan, Mocsy and Vajda, 1929
167	<i>Eimeria bovis</i> Zublin, 1908
168	<i>Eimeria cylindrica</i> Wilson, 1931
169	<i>Eimeria zuernii</i> Rastegaiff, 1930
170	<i>Eimeria gaurusi</i> Patnaik and Acharjyo, 1971
171	<i>Eimeria yakimovi</i> Rastegaieff, 1930
172	<i>Eimeria chausingshi</i> Pande, Bhatia, Chauhan, and Garg, 1970
173	<i>Eimeria wassilewskyi</i> Rastegaieff, 1930

Sl. No.	Species
174	<i>Eimeria parahi</i> Pande, Bhatia, Chauhan and Garg, 1970
175	<i>Eimeria coucangi</i> Patnaik and Acharjyo, 1970
176	<i>Eimeria nycticebi</i> Patnaik and Acharjyo, 1970
177	<i>Eimeria perminuta</i> Henry, 1931
178	<i>Eimeria scabra</i> Henry, 1931
179	<i>Eimeria spinosa</i> Henry, 1931
180	<i>Eimeria polita</i> Pellerdy, 1949
181	<i>Eimeria newali</i> Dubey and Pande, 1963
182	<i>Eimeria pandei</i> Patnaik and Ray, 1965
183	<i>Eimeria mivati</i> Edger and Seibold
184	<i>Eimeria tenella</i> (Raillet and Rucet)
185	<i>Eimeria arloingei</i> (Marotel)
186	<i>Eimeria debbieki</i> Douwes
187	<i>Eimeria clupearum</i> (Thelohan)
189	<i>Eimeria porci</i> Vetterling
191	<i>Eimeria andamanensis</i> Mondal & Nair
192	<i>Eimeria mecestophori</i> Narasimhamurti, 1976
193	<i>Eimeria knowlesi</i> Bhatia, 1936
194	<i>Eimeria anatis</i> Scholtyseck, 1955
195	<i>Eimeria brunetti</i> Levine, 1942
196	<i>Eimeria necatrix</i> Johnson, 1930
197	<i>Eimeria antilocervi</i> Ray and Mandal
198	<i>Eimeria crandallis</i> Honess, 1942
199	<i>Eimeria ninakohlyakimovae</i> Yakimoff and Rastegaieff, 1930
200	<i>Eimeria tirupatiensis</i> Sivanarayan and Venkatratnam, 1969
201	<i>Eimeria zuernii</i> (Rivolta, 1878)
202	<i>Eimeria glossogobii</i> Mukherjee and Haldar
203	<i>Eimeria harpodoni</i> Setna and Bana
204	<i>Eimeria notopteri</i> Chakravarty and Kar
205	<i>Eimeria southwelli</i> Halawani
206	<i>Eimeria zygaenac</i> Mandal
207	<i>Eimeria bongaonensis</i> Sinha and Sinha
208	<i>Eimeria falviviridis</i> Setna and Bana
209	<i>Eimeria gupti</i> Bhatia
210	<i>Eimeria hemidactyli</i> Knowles and Dasgupta
211	<i>Eimeria irregularis</i> Kar
212	<i>Eimeria innominata</i> Kar
213	<i>Eimeria koormae</i> Dasgupta
214	<i>Eimeria najaee</i> Ray and Dasgupta

Sl. No.	Species
215	<i>Eimeria piscatori</i> Ray and Dasgupta
216	<i>Eimeria stolatae</i> Ray and Dasgupta
217	<i>Eimeria trionyxae</i> Chakravarty and Kar
218	<i>Eimeria triangularis</i> Chakravarty
219	<i>Eimeria alectorae</i> Ray and Hiregaudar
220	<i>Eimeria anili</i> Haldar, Ray and Mandal
221	<i>Eimeria barbeta</i> Kar
222	<i>Eimeria bengalensis</i> Paul, Ghosh and Haldar
223	<i>Eimeria bhutanensis</i> Ray and Hiregaudar
224	<i>Eimeria charadrii</i> Mandal
225	<i>Eimeria coturnicis</i> Chakravarty and Kar
226	<i>Eimeria dauki</i> Bhatia and Pande
227	<i>Eimeria gallinagoi</i> Mandal
228	<i>Eimeria gallusae</i> Paul, Ghosh and Haldar
229	<i>Eimeria gennaeuseus</i> Ray and Hiregaudar
230	<i>Eimeria kapotei</i> Chatterjee and Ray
231	<i>Eimeria labbeana</i> (Labbe)
232	<i>Eimeria malacee</i> Chakravarty and Kar
233	<i>Eimeria mandali</i> Banik and Ray
234	<i>Eimeria numeni</i> Mandal
235	<i>Eimeria pavonina</i> Banik and Ray
236	<i>Eimeria roseoviensis pluvialina</i> Mandal
237	<i>Eimeria tropicalis</i> Malhotra and Ray
238	<i>Eimeria vanelli</i> Mandal
239	<i>Eimeria micropylifera</i> Bandyopadhyay and Dasgupta
240	<i>Eimeria bandicota</i> Bandyopadhyay
241	<i>Eimeria bandipurensis</i> Ray, Banik
242	<i>Eimeria cervis</i> Mandal and Choudhury
243	<i>Eimeria christensenii</i> Levine, Ivens and Fritz
244	<i>Eimeria comminispora</i> Bandyopadhyay and Dasgupta
245	<i>Eimeria darjeelingensis</i> Sinha and Sinha
246	<i>Eimeria faurei</i> (Moussu)
247	<i>Eimeria nasuta</i> Bandyopadhyay and Dasgupta
248	<i>Eimeria neodeblicki</i> Vetterling
249	<i>Eimeria ninakholyakimovi</i> Yakimoff and Rostegaeiff
250	<i>Eimeria oryctolagi</i> Ray and Banik
251	<i>Eimeria ovoidalis</i> Ray and Mandal
252	<i>Eimeria dhamini</i> Mandal & Mukherjee
253	<i>Eimeria fibrilosa</i> R. mandol

Sl. No.	Species
254	<i>Eimeria bandicoota</i> Banerjee & Dasgupta
255	<i>Eimeria jalpaiguriensis</i> (Banerjee)
256	<i>Eimeria sibporensis</i> (Bandyopadhyay & Dasgupta)
257	<i>Eimeria biswapati</i> (Bandyopadhyay)
258	<i>Eimeria garumaranana</i> (Bandyopadhyay & Dasgupta)
259	<i>Eimeria murinus</i> (Bandyopadhyay & Dasgupta)
260	<i>Eimeria suncus</i> (Ahluwalia, Singh, Arora, Mandal & Sarkar)
	Genus <b>Wenyonella</b> , Hoare, 1933
261	<i>Wenyonella levinei</i> (Bandyopadhyay, Roy & Dasgupta)
	Genus <b>Cyclospora</b> , Schneider, 1881
262	<i>Cyclospora cayetanensis</i>
	Genus <b>Dorisa</b>
263	<i>Dorisa aethiopsaris</i> (Chakravarty and Kar)
264	<i>Dorisa ehakravartyi</i> (Ray and Sarkar)
265	<i>Dorisa graculae</i> Mandal, Nandi, Chakraborty, Bhowmik, Sarkar and Roy
266	<i>Dorisa hareni</i> (Chakravarty and Kar)
267	<i>Dorisa mandali</i> (Ray and Sarkar)
268	<i>Dorisa passeris</i> (Ray and Sarkar)
269	<i>Dorisa vagabundae</i> (Mandal and Chakravarty)
270	<i>Dorisa bengalensis</i> Bandyopadhyay and Ray
271	<i>Dorisa harpia</i> (Sinha and Dasgupta)
	Order EUGREGARINORIDA Léger 1900
	Family GREGARINIDAE
	Genus <b>Gregarina</b>
272	<i>Gregarina alcidesi</i> Haldar and Chakravarty
273	<i>Gregarina basiconstrictionesa</i> Ghosh, Sengupta and Haldar
274	<i>Gregarina biolobosa</i> Kundu and Haldar
275	<i>Gregarina chaetocnemae</i> Sarkar
276	<i>Gregarina cylindrosa</i> Haldar and Kundu
277	<i>Gregarina dasguptai</i> Mandal et. Al
278	<i>Gregarina discocephala</i> Kundu and Haldar
279	<i>Gregarina gryllodis</i> Haldar and Sarkar emend. Levine
280	<i>Gregarina guttiventra</i> Haldar and Sarkar
281	<i>Gregarina ischnopterae</i> Datta and Haldar
282	<i>Gregarina levinei</i> Haldar and Sarkar emend. Levine
283	<i>Gregarina lygeusi</i> Haldar, Ray and Gupta
284	<i>Gregarina mukundai</i> Haldar and Kundu
285	<i>Gregarina nalaee</i> Datta and Haldar
286	<i>Gregarina spraguei</i> Haldar and Chakraborty
287	<i>Gregarina blattarum</i> Sicbold

Sl. No.	Species
288	<i>Gregarina megaspora</i> Rodgi & Amoji
289	<i>Gregarina ambigua</i> Rodgi & Amoji
290	<i>Gregarina crescentica</i> Haldar and Chakravarty, 1978
291	<i>Gregarina macrotermitis</i> Kalavati and Narasimhamurti, 1978
292	<i>Gregarina poeciloceri</i> Ganapati and Mrytyumjaya Devi, 1954
293	<i>Gregarina sp.</i> (Canning, 1956)
294	<i>Gregarina chaetocnemae sp. n.</i>
295	<i>Gregarina niphandrodes</i> Genus <b>Steinina</b> Léger & Duboscq, 1904
296	<i>Steinina coptotermitis</i> Kalavati and Narasimhamurti, 1978 (Syn. <i>S. coptotermi</i> )
297	<i>Steinina rodgii</i> Patil and Amoji, 1986
298	<i>Steinina microgoni</i> Sarkar and Chakravarty emend. Levine
299	<i>Steinina alphitobii</i> Sarkar and Chakravarty emend. Levine Genus <b>Stenophora</b>
300	<i>Stenophora gongylorrhia</i> Amoji & Rodji
301	<i>Stenophora xenoboli</i> Ganapati and Narasimhamurti, 1956
	Genus <b>Acanthogregarina</b>
302	<i>Acanthogregarina hoshidei</i> Kalavati, Narasimhamurti and Vidyullatha Devi, 1988
	Family ACTINOCEPHALIDAE
	Genus <b>Anthorhynchus</b>
303	<i>Anthorhynchus hanumanthi</i> Kalavati and Narasimhamurti, 1978
	Genus <b>Harendraia</b>
304	<i>Harendraia murtii n. sp.</i>
	Family MONOCYSTIDAE
	Genus <b>Monocystis</b>
305	<i>Monocystis sp.</i>
306	<i>Monocystis bengalensis</i> Ghosh
307	<i>Monocystis odontotermitis</i> Kalavati, 1979
308	<i>Monocystis pontodrilli</i> Subba Rao, Kalavati and Narasimhamurti, 1978
309	<i>Monocystis beddardi</i> Ghosh
310	<i>Monocystis illoidi</i> Ghosh
311	<i>Monocystis senchalensis</i> Pradhan Das Gupta
	Genus <b>Apolocystis</b>
312	<i>Apolocystis sp.</i>
313	<i>Apolocystis chotonagpurensis sp. n.</i>
314	<i>Apolocystis cognetti sp. nov.</i>
	Class CONOIDASIDA
	Order EUCOCCIDIORDA, Léger & Duboscq, 1910
	Family HAEMOGREGARINIDAE
	Genus <b>Haemogregarina</b> , Danilewsky, 1885

Sl. No.	Species
316	<i>Haemogregarina mirabilis</i> Castellani and Willey, 1904
317	<i>Haemogregarina triedri</i> Robertson, 1908
318	<i>Haemogregarina</i> sp.
	Family CRYPTOSPORIDIIDAE
	Genus <b><i>Cryptosporidium</i></b> , Tyzzer, 1907
319	<i>Cryptosporidium parvum</i>
320	<i>Cryptosporidium</i> spp. (Tyzzer, 1907)
	Family SARCOCYSTIDAE
	Genus <b><i>Toxoplasma</i></b>
321	<i>Toxoplasma gondii</i> (Nicolle & Manceaux, 1908)

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