

# **Records of the Zoological Survey of India**

**Index Catalogue of avian haematozoa  
from India**

by  
N. C. NANDI

Issued by the Director  
Zoological Survey of India, Calcutta

**RECORDS  
OF THE  
ZOOLOGICAL SURVEY OF INDIA**

**MISCELLANEOUS PUBLICATION  
OCCASIONAL PAPER NO. 48**

**INDEX-CATALOGUE OF AVIAN HAEMATOOZOA  
FROM INDIA**

*By*

**N. C. NANDI**

Zoological Survey of India, Kakdwip Field Station  
Kakdwip, West Bengal



सत्यमेव जयते

*Edited by the Director, Zoological Survey of India  
1984*

© *Copyright, Government of India, 1984*

**Published in May, 1984**

**PRICE : *Inland* : Rs. 27·00**  
***Foreign* : £ 3·00 \$ 6·00**

**PRINTED IN INDIA AT IMPRINTA, 243/2B, A. P. C. ROAD, CALCUTTA-6 AND  
PUBLISHED BY THE DIRECTOR, ZOOLOGICAL SURVEY OF INDIA, CALCUTTA**

**RECORDS  
OF THE  
ZOOLOGICAL SURVEY OF INDIA**

MISCELLANEOUS PUBLICATION

OCCASIONAL PAPER

No. 48

1984

Pages 1—64

**CONTENTS**

	<i>Pages</i>
INTRODUCTION ... ..	1
SYSTEMATIC POSITION OF THE AVIAN HAEMATOZOA ... ..	1
SPECIES CATALOGUE ... ..	3
<b>Genus Trypanosoma</b> ... ..	3
<b>Lankesterella</b> ... ..	5
<b>Toxoplasma</b> ... ..	5
<b>Leucocytozoon</b> ... ..	6
<b>Haemoproteus</b> ... ..	8
<b>Plasmodium</b> ... ..	15
<b>Babesia</b> ... ..	17
Microfilaria ... ..	17
Unidentified parasites ... ..	20
HOST CATALOGUE ... ..	21
Order Ciconiformes ... ..	21
Family Ardeidae ... ..	21
Family Threskiornithidae ... ..	21
Order Anseriformes ... ..	21
Family Anatidae ... ..	21
Order Falconiformes ... ..	21
Family Accipitridae ... ..	21
Family Falconidae ... ..	22
Order Galliformes ... ..	22
Family Megapodiidae ... ..	22
Family Phasianidae ... ..	22
Order Gruiformes ... ..	23
Family Turnicidae ... ..	23
Family Rallidae ... ..	23
Order Charadriiformes ... ..	24
Family Charadriidae ... ..	24
Order Columbiformes ... ..	24
Family Columbidae ... ..	24

Order Psittaciformes	...	...	25
Family Psittacidae	...	...	25
Order Cuculiformes	...	...	25
Family Cuculidae	...	...	25
Order Strigiformes	...	...	25
Family Strigidae	...	...	25
Order Coraciiformes	...	...	26
Family Alcedinidae	...	...	26
Family Meropidae	...	...	26
Family Coraciidae	...	...	27
Family Upupidae	...	...	27
Order Piciformes	...	...	27
Family Capitonidae	...	...	27
Family Picidae	...	...	28
Order Passeriformes	...	...	28
Family Pittidae	...	...	28
Alaudidae	...	...	29
Campephagidae	...	...	29
Dicruridae	...	...	29
Oriolidae	...	...	29
Corvidae	...	...	30
Paridae	...	...	31
Sittidae	...	...	31
Timaliidae	...	...	31
Pycnonotidae	...	...	32
Aegithinidae	...	...	33
Turdidae	...	...	33
Sylviidae	...	...	34
Muscicapidae	...	...	35
Motacillidae	...	...	36
Laniidae	...	...	36
Sturnidae	...	...	37
Nectariniidae	...	...	38
Dicaeidae	...	...	38
Zosteropidae	...	...	38
Fringillidae	...	...	38
Ploceidae	...	...	39
ANNOTATED LIST OF UNINFECTED SPECIES	...	...	40
SUMMARY	...	...	46
ACKNOWLEDGEMENTS	...	...	46
REFERENCES	...	...	46
APPENDIX-I	...	...	53
ADDENDUM	...	...	64

# INDEX-CATALOGUE OF AVIAN HAEMATOZOA FROM INDIA

by

N. C. NANDI

*Zoological Survey of India, Kakdwip Field Station,  
Kakdwip, 24-Parganas, West Bengal, India.*

## INTRODUCTION

The following is the index-catalogue of parasites and hosts recorded from India covering the year 1980. The results stem from birds of Zoological Gardens (Plimmer, 1912-1916 ; Scott, 1926, 1927 ; Knowles, 1928) are not incorporated as one may not be certain about the origin of birds and the source of infection. Further, in many cases the recorded host name does not appear to be correct one, and in such cases it is placed in paranthesis, the correct name being given without parenthesis. For reference to host, Austin (1961), Ripley (1961) and Ali and Ripley (1968-1974) have been consulted and for the parasites, Wenyon (1926), Bhatia (1938) as well as original references were seen. The question of the parasites of migrant birds is glossed here. If the parasite has been found in this area, it is listed here though in all probability the infection might have acquired elsewhere.

Besides unnamed species and microfilaria there are about 96 species and subspecies of avian haematozoa known to occure in India. Many of these species require revision in the light of modern approach to taxonomy. To facilitate such study and to promote further research on the subject an Appendix (Appendix-1) is incorporated herein to cover references on other aspects of the parasite—those carried out in India as well as some important check-lists and revisionary papers of interests to the researchers of this field of science.

The following abbreviations are used in host catalogue.

H. = *Haemoproteus* ; L. = *Leucocytozoon* ; P. = *Plasmodium* ;

T. = *Trypanosoma* ; Mf. = *Microfilaria* ; U.P. = Unidentified parasite.

## SYSTEMATIC POSITION OF THE AVIAN HAEMATOZOA

Although the goal of taxonomy or classification is to express the degree of kinship between organisms, specialists do not agree as to the number, rank and names of categories that should be recognised, or as to allocation of species to them. This is especially true for Haematozoa.

The word *Haematozoa*, derived from the Greek words *aima* meaning blood, and *zoon* meaning animal, implies an assemblage of blood-inhabiting organisms. They are essentially heterogenous assemblage of microorganisms which require to pass at least a part of their life in the blood, either free in the plasma or inside the corpuscles of vertebrate animals. They do not represent any taxon of the animal kingdom and are not a natural group. But they have often been referred together as Haematozoa, for sake of convenience and discussion.

The haematozoa that can be observed, at some stage of their development, in preparations of the blood of birds include the genera *Trypanosoma*, *Lankesterella*, *Leucocytozoon*, *Haemoproteus*, *Plasmodium* and *Babesia* belonging to the subkingdom Protozoa and some microfilariae of the phylum Nemathelminthes. The trypanosomes and microfilariae are extracellular plasma parasites, and the rest of the haematozoans are intracellular parasites.

The earlier classical classifications divide living things into plant and animal kingdoms. More recent classifications divide them into 4 to many kingdoms, mostly into 5-kingdoms classification. In this Protozoa might be considered a subkingdom of the kingdom Protista. Nemathelminthes are incorporated under the subkingdom Eumetazoa of the kingdom Animalia.

In the classical taxonomic scheme, Protozoa were considered a phylum and were divided into 2 subphyla, Plasmodroma (containing the classes Mastigophora, Sarcodina and Sporozoa) and Ciliophora, based primarily on organelles of locomotion. Members of the "Protozoa" have now been assigned to 7 phyla, Sarcomastigophora, Labyrinthomorpha, Apicomplexa, Microspora, Myxozoa, Ascetozoa and Ciliophora. Filarial nematodes or Nematoda have often been designated as a separate phylum, Nemathelminthes, either with or without the acanthocephs and nematomorphs, but are now generally considered to be a class of the phylum Nemathelminthes.

For this turmoil and transition in the Protozoa-Nematoda systematics it would be wise to present the classification followed in this catalogue. And, in view of this and in order to reflect a relatively rational natural system of classification the protozoan genera are arranged in accordance with the classification formulated by the committee on systematics and evolution of the Society of Protozoologists (Levine *et al.*, 1980).

Phylum : SARCOMASTIGOPHORA Honigberg & Ealamuth, 1963  
 Subphylum : MASTIGOPHORA Dizeing, 1866  
 Class : ZOOMASTIGOPHORA Calkins, 1909  
 Order : KINETOPLASTIDA Honigberg, 1963 ; emend. Vickerman,  
 1976

- Suborder : TRYPANOSOMATINA Kent, 1880  
 Family : TRYPANOSOMATIDAE Doflein, 1901 ; emend. Grobben, 1905  
 Genus : **Trypanosoma** Gruby, 1843  
 Phylum : APICOMPLEXA Levine, 1970  
 Class : SPOROZOEAE Leuckart, 1879  
 Subclass : COCCIDIA Leuckart, 1879  
 Order : : EUCCOCCIDIIDA Leger & Duboscq, 1910  
 Suborder : EIMERIINA Leger, 1911  
 Family : LANKESTERELLIDAE Noller, 1902  
 Genus : **Lankesterella** Labbe, 1899  
 Family : TOXOPLASMATIDAE Biocca, 1956  
 Genus : **Toxoplasma** Nicolle & Manceaux, 1908  
 Suborder : HAEMOSPORINA Danilewsky, 1885  
 Family : LEUCOCYTOZOIDAE Doflein, 1916  
 Genus : **Leucocytozoon** Sambon, 1908  
 Family : HAEMOPROTEIDAE Doflein, 1916  
 Genus : **Haemoproteus** Kruse, 1890  
 Family : PLASMODIIDAE Mesnil, 1903  
 Genus : **Plasmodium** Marchiafava & Celli, 1885  
 Subclass : PIROPLASMIA Levine, 1961  
 Order : PIROPLASMIDA Wenyon, 1926  
 Family : BABESIIDAE Poche, 1913  
 Genus : **Babesia** Starcovici, 1893  
 Phylum : NEMATHELMINTHES  
 Class : NEMATODA Rudolphi, 1808  
 Subclass : PHASMIDA Westwood, 1843  
 Order : FILARIIDEA Yamaguti, 1961  
 Family : FILARIIDAE Cobbold, 1864

## SPECIES CATALOGUE

<i>Species</i>	<i>Host</i>	<i>Reference</i>
----------------	-------------	------------------

### Genus **Trypanosoma**

- |   |                               |  |
|---|-------------------------------|--|
| 1. <i>T. avium</i> Danilewsky,<br>1885                | <i>Glaucidium cuculoides</i>  | Nandi and Mandal, 1978                             |
| [Syn. <i>T. syrni</i> (Mayer,<br>1911) Noller, 1917]  | <i>Lonchura malabarica</i>    | Nandi <i>et al.</i> (In press) ; Grewal,<br>1963   |
|   | <i>Acrocephalus dumetorum</i> | Nandi <i>et al.</i> (In press)                     |
|   | <i>Dicrurus adsimilis</i>     | Nandi <i>et al.</i> (In press)                     |
| 2. <i>T. brame</i> Stephens and<br>Christophers, 1908 | <i>Athene brama</i>           | Donovan, 1904 ; Stephens and<br>Christophers, 1908 |

3. <i>T. brimonti bakeri</i> (Chatterjee and Roy 1971) [Syn. <i>T. avium bakeri</i> Chatterjee and Roy, 1971]	<i>Pycnonotus jocosus</i> (Syn. <i>Otocompsa jacosa</i> )  Chicks (expt. host) Pigeons ( , , ) Black-breasted quail ( , , ) <i>Dendrocitta vagabunda</i>	Chatterjee and Ray, 1971  " " " "
4. <i>T. centropi</i> de Mello, 1935	<i>Centropus sinensis</i> <i>parroti</i>	Nandi <i>et al.</i> (In press) de Mello, 1935d
5. <i>T. corvi</i> Steph. and Christ, 1908	<i>Corvus monedula</i>	Stephens and Christopher, 1908
6. <i>T. cuculli</i> de Mello, 1935	<i>Cuculus micropterus</i> (Syn. <i>Cuculus micropternus</i> )	de Mello, 1935d
7. <i>T. delhiense</i> Grewal, 1963	<i>Lonchura malabarica</i> (Syn. <i>Uroloncha</i> <i>malabarica</i> )	Grewal, 1963
8. <i>T. fulicae</i> de Fonseca, 1938	<i>Fulica atra</i>	da Fonseca, 1938
9. <i>T. garruli</i> Subramanian and Singh, 1962	<i>Garrulus lanceolatus</i>	Subramanian and Singh, 1962a
10. <i>T. hanna</i> Pittaluga, 1905 [Syn. <i>T. columbae</i> Stephens and Christo- phers, 1908]	<i>Columba livia</i>	Pittaluga, 1905 ; Hanna, 1903 ; Stephens and Christophers, 1908 ; de Mello <i>et al.</i> , 1917
11. <i>T. ixobrychi</i> de Mello, 1935	<i>Ixobrychus m. minuta</i>	de Mello, 1935d
12. <i>T. knowlesi</i> Das Gupta, and Siddons, 1941	<i>Lonchura malabarica</i> (Syn. <i>Uroloncha</i> <i>malabarica</i> )	Das Gupta and Siddons, 1941b
13. <i>T. lanii</i> Choudhury and Misra, 1976	<i>Lanius schach tricolor</i>	Choudhury and Misra, 1976
14. <i>T. lobivanelli</i> de Mello, 1935	<i>Lobivanellus i. indicus</i>	de Mello, 1935d
15. <i>T. milvi</i> Stephens and Christophers, 1908	<i>Milvas migrans govinda</i> (Syn. <i>Milvas govinda</i> )	Donovan, 1904 ; Stephens and Christophers, 1908
16. <i>T. moruoni</i> de Mello, 1937	<i>Copsychus saularis</i>	de Mello, 1937a
17. <i>T. nycticoracis</i> Stephens and Christophers, 1908	<i>Nycticorax n. nycticorax</i>	Stephens and Christophers, 1908 ; de Mello, 1937a
18. <i>T. turdoides</i> de Mello, 1935	<i>Turdoides striatus</i> <i>sommervillei</i> (Syn. <i>Turdoides</i> <i>sommervillei</i> )	de Mello, 1935d
19. <i>T. urolonchae</i> Pereira, 1941	<i>Lonchura striata</i> (Syn. <i>Uroloncha striata</i> )	Pereira, 1941
20. <i>T. sp.</i>	<i>Buteo vulpinus</i>	de Mello, 1937a

<i>Corvus splendens</i>	Donovan, 1904
<i>Coturnix communis</i>	Singh <i>et al.</i> , 1956
<i>Eudynamys scolopacea</i>	Qadri, 1962
<i>Francolinus pondicerianus</i>	McClure <i>et al.</i> , 1978 ; Singh <i>et al.</i> , 1956
<i>Garrulus lanceolatus</i>	Subramanian and Singh, 1962b
<i>Glaucidium brodiei</i>	Subramanian and Singh, 1962b
<i>Hypsipetes madagas cariensis</i>	McClure <i>et al.</i> , 1978
<i>Lonchura malabarica</i>	”
<i>Lonchura p. punctulata</i>	Chaudhury, Sarkar and Ray, 1969
<i>Lanius schach tricolor</i> ( <i>Lanius excubitor</i> )	Choudhury and Misra, 1972, 1973
<i>Oriolus oriolus</i>	McClure <i>et al.</i> , 1978
<i>Oriolus oriolus kundoo</i>	de Mello, 1937a
<i>Oriolus traillii</i>	Subramanian and Singh, 1962b
<i>Passer domesticus</i>	David and Nair, 1955 ; Grewal <i>et al.</i> , 1957
<i>Pitta brachyura</i>	McClure <i>et al.</i> , 1978
<i>Prinia socialis</i>	”
<i>Pycnonotus cafer</i>	”
<i>Pycnonotus cafer stanfordi</i> (Syn. <i>Molpastes burmanicus</i> )	Grewal, 1965
<i>Pycnonotus lencogenys</i>	McClure <i>et al.</i> , 1978
<i>Streptopelia chinensis</i>	Qadri, 1962
<i>Streptopelia decaocto</i>	McClure <i>et al.</i> , 1978
<i>Treron phoenicoptera</i> (= <i>Crocopus phoenicopterus</i> )	Singh, 1959
<i>Turdoides striatus</i>	McClure <i>et al.</i> , 1978
<i>Zoothera citrina</i>	”

### Genus Lankesterella

1. <i>L. adiei</i> (Aragao, 1911) emend. Lainson, 1959	<i>Passer domesticus</i>	Adie, 1908
2. <i>L. sp.</i>	<i>Passer domesticus</i> <i>Ploceus philippinus</i> <i>Sturnus malabaricus</i>	Nandi <i>et al.</i> , (In press) ” ”

### Genus Toxoplasma

1. <i>Toxoplasma butasturis</i> de Mello, 1936	<i>Butastur teesa</i>	de Mello, 1936, 1937a
2. <i>Toxoplasma fulicae</i> de Mello, 1935	<i>Fulica atra</i>	de Mello, 1935b, 1937
3. <i>Toxoplasma sp.</i>	<i>Dendrocopos auriceps</i> (= <i>Drybates auriceps</i> ) <i>Dendrocopos h. hima- layensis</i> (= <i>Drybates h. hima- layensis</i> )	Pande <i>et al.</i> , 1961  Pande <i>et al.</i> , 1961



<i>Aythya fuligula</i>	McClure <i>et al.</i> , 1978
<i>Carpodacus erythrinus</i>	„
<i>Centropus sinensis</i>	„
<i>Chrysoma sinense</i>	„
<i>Clamator jacobinus</i>	„
<i>Coccothraustes icteroides</i>	„
<i>Coracias benghalensis</i>	„
<i>Coturnix coromandelica</i>	„
<i>Dendrocitta formosae</i>	„
<i>Dumetia hyperythra</i>	„
<i>Emberiza cia</i>	„
<i>Falco</i> sp.	Donovan, 1904
<i>Francolinus pictus</i>	McClure <i>et al.</i> , 1978
<i>Francolinus pondicerianus</i>	„
<i>Francolinus</i> sp.	Gill and Ray, 1955
<i>Garrulax variegatus</i>	McClure <i>et al.</i> , 1978
<i>Hemipus picatus</i>	„
<i>Hetersphasia capistrata</i>	„
<i>Hypsipetes madagascariensis</i>	„
<i>Megalaima australis</i>	„
<i>Megalaima viridis</i>	„
<i>Melophus lathami</i>	„
<i>Monticola cinclorhynchus</i>	„
<i>Muscicapa tickelliae</i>	„
<i>Mycerobas affinis</i>	Nandi and Mandal (1978)
<i>Nyctyornis athertoni</i>	Nandi (1978)
<i>Oriolus oriolus</i>	McClure <i>et al.</i> , 1978
<i>Oriolus oriolus kundoo</i>	de Mello, 1936
<i>Oriolus x. xanthornus</i>	„
<i>Otus bakkamoena</i>	McClure <i>et al.</i> , 1978
<i>Parus major</i>	„
<i>Parus monticolus</i>	„
<i>Parus xanthogenys</i>	„
<i>Perdica argoondah</i>	„
<i>Phoenicurus caeruleocephalus</i>	„
<i>Picus chlorolophus</i>	„
<i>Picus s. squamatus</i>	Nandi and Mandal (1978)
<i>Pitta brachyura</i>	McClure <i>et al.</i> , 1978
<i>Pycnonotus cafer</i>	„
<i>Pycnonotus jocosus</i>	„
<i>Pyrrhula aurantiaca</i>	„
<i>Saxicola caprata</i>	„
<i>Saxicola torquata</i>	„
<i>Streptopelia decaocto</i>	„
<i>Streptopelia orientalis</i>	„
<i>Streptopelia senegalensis</i>	„
<i>Tarsiger cyanurus</i>	„
<i>Tephrodornis pondiceriana</i>	„
<i>Turdoides caudata</i>	„
<i>Turdoides malcolmi</i>	„

<i>Turdoides striata</i>	McClure <i>et al.</i> , 1978
<i>Turdus merula</i>	„
<i>Turdus ruficollis</i>	„
<i>Turdus unicolor</i>	„
<i>Upupa epops</i>	„
<i>Vanellus indicus</i>	„
<i>Zoothera citrina</i>	„
<i>Zosterops palpebrosa</i>	„

### Genus *Haemoproteus*

1. <i>H. aegithinae</i> de Mello, 1935	<i>Aegithina tiphia</i>	de Mello, 1935c
2. <i>H. anthi</i> de Mello, 1935	<i>Anthus novaeseelandiae rufulus</i> (Syn. <i>Anthus rufulus</i> )	de Mello, 1935c ; Zargar, 1945
3. <i>H. antigonis</i> de Mello, 1935	<i>Anthropoides virgo</i> (Syn. <i>Antigone virgo</i> ) <i>Grus antigone</i> (= <i>Antigone antigone</i> )	de Mello, 1935c „
4. <i>H. asturisdussumieri</i> de Mello, 1935	<i>Accipiter badius dussumieri</i> (Syn. <i>Astur badius dussumieri</i> )	de Mello, 1935c
5. <i>H. bennetti</i> Greiner, Mandal and Nandi, 1977	<i>Picus flavinucha</i>	Greiner, Mandal and Nandi, 1977 ; Nandi <i>et al.</i> (In press)
6. <i>H. borgesii</i> Tendeiro, 1947	<i>Jynx torquilla himalayana</i>  <i>Picoides m. mahrattensis</i> <i>Picus canus</i> <i>Picus canus gyldenstolpei</i>	Nandi and Mandal, 1978  Nandi, 1976 Greiner <i>et al.</i> , 1977 Nandi, 1978
7. <i>H. bramae</i> de Mello, 1935	<i>Athene brama</i>	de Mello, 1935c
8. <i>H. cellii</i> Coatney and Roudabush, 1937	<i>Athene brama</i>  <i>Ninox scutulata</i> <i>Glaucidium cuculoides</i> <i>Strix aluco biddulphi</i> <i>Otus bakkamoena</i>	McClure <i>et al.</i> , 1978  „ Nandi and Mandal, 1978 „ McClure <i>et al.</i> , 1978
9. <i>H. centropi</i> de Mello, 1935 [Syn. <i>H. froilani</i> Tendeiro, 1947]	<i>Centropus sinensis parroti</i> (Syn. <i>Centropus parroti</i> )	de Mello, 1935c ; Nandi, 1978
10. <i>H. cerchneisi</i> Bhatia, 1938	<i>Falco tinnunculus objurgatus</i> (Syn. <i>Cerchneis tinnunculus objurgatus</i> )	de Mello, 1935c, 1936 ; Bhatia, 1938
11. <i>H. (Haemoproteus) columbae</i> Kruse, 1890	<i>Columba livia</i>	Acton and Knowles, 1914 ; Alock, 1914 ; Adie, 1915 ; de Mello and Braz da Sa, 1916 ; de Mello <i>et al.</i> , 1917 ;

- |  |  |  |
|--|--|--|
|  |  | Chakravarty and kar, 1945 ;<br>Singh <i>et al.</i> , 1951 ; Narang<br>and Bhatnagar, 1969.                                       |
|  | <i>Columba livia intermedia</i>  | Nandi. 1976 ; Nandi <i>et al.</i> ,<br>(In press)  |
|  | <i>Streptopelia chinensis</i>  | Nandi and Mandal, 1977a  |
| 12. <i>H. coraciae</i> de Mello<br>and Afonso, 1935  | <i>Coracias b. benghalensis</i>  | de Mello and Afonso, 1935 ;<br>Nandi ; 1976  |
|  | <i>Coracias indica</i>   | Valles, 1938   |
| 13. <i>H. cornuata</i> Bennett<br>and Nandi, 1981  | <i>Megalaima viridis</i>   | Bennett and Nandi, 1981  |
|  | <i>Megalaima haemacephala</i>  | Nandi, 1978  |
| 14. <i>H. (Parahaemoproteus)</i><br><i>danilewskii</i> Kruse 1890<br>(Syn. <i>Haemoproteus</i><br><i>corvi</i> Bhatia, 1938)                               | <i>Corvus splendens</i>  | Bhatia, 1938, Nandi <i>et al.</i> ,<br>(In Press)  |
|  | <i>Dendrocitta vagabunda</i>   | Nandi <i>et al.</i> , (In press)   |
|  | <i>Copsychus saularis</i>  | Chakravarty and Kar, 1945b   |
| 15. <i>H. dicruri</i> de Mello ;<br>1935   | <i>Dicrurus adsimilis</i><br><i>macrocerus</i><br>(Syn. <i>Dicrurns m. macro-</i><br><i>cercus</i> ) | de Mello, 1935c  |
|  | <i>Dicrurus adsimilis</i>  | Nandi and Mandal, 1977a ;<br>1978 ; Nandi <i>et al.</i> (In press)   |
| 16. <i>H. elani</i> de Mello, 1935   | <i>Elanus caeruleus vociferus</i>  | de Mello, 1935c  |
| 17. <i>H. fallisi</i> Bennett and<br>Campbell, 1972  | <i>Copsychus saularis</i>  | Nandi and Mandal, 1977a  |
| 18. <i>H. (Parahaemoproteus)</i><br><i>fringillae</i> Labbe, 1894<br>[Syn. <i>H. moruny in</i><br><i>partim</i> ]  | <i>Copsychus saularis</i>  | de Mello and Braz da Sa,<br>1916 ; de Mello <i>et al.</i> , 1917 ;<br>Nandi and Mandal 1977a ;<br>Nandi <i>et al.</i> (In press) |
| 19. <i>H. fusca</i> Bennett and<br>Campbell, 1973<br>[Syn. <i>Haemoproteus</i><br><i>halcyonis</i> var. <i>fuscae</i> de<br>Mello and da Fonseca,<br>1937] | <i>Halcyon smyrnensis</i><br><i>Halcyon smyrnensis fusca</i>   | McClure <i>et al.</i> , 1978<br>de Mello and da Fonseca, 1937  |
| 20. <i>H. gallinulae</i> de Mello,<br>1935<br>[Syn. <i>Haemoproteus</i><br><i>fulicae</i> , da Fonseca,<br>1938]   | <i>Gallinula chloropus</i><br><i>Fulica atra</i>   | de Mello, 1935c<br>da Fonseca, 1938  |
| 21. <i>H. garnhami</i> Grewal,<br>1964   | <i>Lonchura malabarica</i><br><i>Lonchura p. puntulata</i>   | Grewal, 1964a ; Nandi <i>et al.</i> ,<br>(In press)<br>Nandi <i>et al.</i> (In press)  |
| 22. <i>H. glaucidii</i> de Mello,<br>1937  | <i>Glaucidium radiatum</i>   | de Mello, 1937a ; Nandi and<br>Mandal, 1977a   |
| 23. <i>H. gymnorrhidis</i> de<br>Mello, 1937   | <i>Petronia xanthocollis</i><br>(Syn. <i>Gymnorhis xantho-</i><br><i>collis</i> )                    | de Mello, 1937a  |

- |  |   |   |
|--|---|---|
| 24. <i>H. halcyonis</i> de Mello, 1935<br>[Syn. <i>Haemoproteus ecae</i> Tendeiro, 1947]                                       | <i>Halcyon smyrnensis</i>   | de Mello, 1935c, 1936 ;<br>McClure <i>et al.</i> , 1978   |
| 25. <i>H. handai</i> Moqsood,  | <i>Psittacula cyanocephala</i><br><i>Psittacula krameri</i><br><i>manillensis</i>   | Maqsood, 1943<br>Chakravarty and Kar, 1945b   |
| 26. <i>H. herodiadis</i> de Mello, 1935  | <i>Herodias intermedias</i>   | de Mello, 1935c   |
| 27. <i>H. lanii</i> de Mello, 1936   | <i>Lanius schach erythronotus</i><br><i>Lanius schach</i>   | de Mello, 1936 ; 1937a<br>Nandi and Mandal, 1977a   |
| 28. <i>H. machlolophi</i> de Mello, 1935   | <i>Parus xanthogenys</i><br><br>(Syn. <i>Machlolophus xanthogenys</i> )   | de Mello, 1935c   |
| 29. <i>H. manwelli</i> Bennett, 1978   | <i>Merops orientalis</i>  | Bennett, 1978   |
| 30. <i>H. megapodius</i> Nandi and Mandal, 1980  | <i>Megapodius freycinet abbotti</i>   | Nandi and Mandal, 1980  |
| 31. <i>H. meropis</i> (Zargar, 1945)<br>emend. Bennett, 1978   | <i>Merops orientalis</i>  | Zargar, 1945 ; Nandi and Mandal, 1977a  |
| 32. <i>H. noctuae</i> Celli and Sanfelice, 1891  | <i>Glaucidium radiatum</i><br><i>Otus bakkamoena</i><br><i>Athene brama</i><br><i>Bubo coromandus</i>   | McClure <i>et al.</i> , 1978<br>"<br>"<br>"   |
| 33. <i>H. orioli</i> de Mello, 1935  | <i>Oriolus oriolus kundoo</i>   | de Mello, 1935c   |
| 34. <i>H. oryzivorae</i> Anschütz, 1909<br><br>[Syn. <i>H. paddae</i> Brumpt 1935, <i>H. moruony</i> de Mello, 1935 in partim] | <i>Copsychus saularis</i><br><br><i>Ploceus philippinus</i><br><i>Myiophoneus caeruleus</i><br><i>Turdoides striatus</i>  | de Mello and Braz da Sa, 1916 ; de Mello <i>et al.</i> , 1917 ;<br>Nandi and Mandal, 1977a<br>Nandi <i>et al.</i> (In press)<br>Nandi <i>et al.</i> (In press)<br>Nandi and Mandal (1978)<br>Nandi <i>et al.</i> (In press) |
| 35. <i>H. otocompsae</i> de Mello, 1935  | <i>Pycnonotus jocosus emeria</i><br>(Syn. <i>Otocompsa jocosus emeria</i> )   | de Mello, 1935c   |
| 36. <i>H. passeris</i> Kruse, 1890   | <i>Passer domesticus</i>  | Nandi and Mandal, 1977a   |
| 37. <i>H. pastoris</i> de Mello, 1935<br>[Syn. <i>H. sturni</i> de Mello, 1935]  | <i>Sturnus roseus</i><br>(Syn. <i>Pastor roseus</i> )<br><br><i>Sturnus malabaricus</i><br><br><i>Sturnus pagodarum</i><br><i>Sturnus contra</i><br><i>Acridotheres tristis tristis</i> | de Mello, 1935c<br><br>de Mello, 1935c ; Nandi <i>et al.</i> (In press)<br>Nandi, 1976<br>Nandi <i>et al.</i> (In press)<br>Nandi, 1976   |

38. *H. plataleae* de Mello, 1935  
 [Syn. *H. galathea* Laird and Laird, 1959 emend. Bennett. Greiner and Campbell, 1975]  
*Platalea leucorida major* de Mello, 1935c  
*Pseudibis p. papillosa* Nandi, 1976
39. *H. raymundi* de Mello, Raimundo, 1934  
*Nectarina zeylanica* (Syn. *Leptocoma zeylanica*) de Mello and Raimundo, 1934
40. *H. rileyi* Malkani, 1936  
*Pavo cristatus* Malkani, 1936
41. *H. sacharovi* Novy and MacNeal, 1905  
*Streptopelia chinensis* Nandi and Mandal, 1977a
42. *H. sanguinis* Chakravarty and Kar, 1945  
*Pycnonotus jocosus emeria* (Syn. *Elathea jocosus emeria*) Chakravarty and Kar, 1945
43. *H. syrniai* (Mayer, 1911) [Syn. *Halteridium syrniai* Mayer, 1911]  
*Otus scops* Nandi *et al.* (In press)
44. *H. tephrodornis* de Mello, 1935  
*Tephrodornis p. pondericeriana* de Mello, 1935c
45. *H. thereicerycis* de Mello, 1935  
 [Syn. *H. thereicerycis* var *zeylanicus* de Mello, 1937]  
*Megalaima zeylanica inornata* (Syn. *Thereiceryx zeylanicus inornatus*) de Mello, 1935c  
*Megalaima z. zeylanica* (Syn. *Thereiceryx z. zeylanicus*) de Mello, 1935c, 1936, 1937a  
*Megalaima a. asiatica* Nandi *et al.* (In press)  
*Megalaima haemacephala* (Syn. *Xantholaema haemacephala*) Zargar, 1945 ; Bennett and Nandi, 1981 ; Nandi, *et al.*, (In press)  
*Megalaima zeylanica* Nandi and Mandal, 1978 ; Bennett and Nandi, 1981  
*Megalaima viridis* Bennett and Nandi, 1981  
*Falco t. tinnunculus* Nandi, 1976
46. *H. tinnunculus* Wasielewski and Wülker, 1918  
 [Syn. *H. danilewski* var *tinnunculus* Wasielewski and Wülker, 1918]
47. *H. velans* Coatney and Roudabush, 1937  
*Picoides m. mahrattensis* Nandi ; 1976  
*Dendrocopos mahrattensis* Greiner *et al.*, 1977 ; McClure *et al.*, 1978  
*Picus chlorolopus* McClure *et al.*, 1978  
*Jynx torquilla* Greiner *et al.*, 1977 ; McClure *et al.*, 1978
48. *H. upupae* de Mello, 1935  
*Upupa epops ceylonensis* (Syn. *Upupa epops orientalis*) de Mello, 1935c



<i>Erithacus svecicus</i>	McClure <i>et al.</i> , 1978
<i>Eremopterix grisea</i>	„
<i>Falco tinnunculus</i>	„
<i>Garrulus lanceolatus</i>	Nandi and Mandal, 1978 ; Subramanian and Singh, 1962b
<i>G. glandarius bispecularis</i>	Subramanian and Singh, 1962b
<i>Glaucidium brodiei</i>	Subramanian and Singh, 1962b
<i>Galloperdix spadicea</i>	McClure <i>et al.</i> , 1978
<i>Gallinula chloropus</i>	„
<i>Galerida cristata</i>	„
<i>Galerida deva</i>	„
<i>Heterophasia capistrata</i>	Subramanian and Singh, 1962b; McClure <i>et al.</i> , 1978
<i>Hippolais caligata</i>	„
<i>Hypothymis azurea</i>	„
<i>Hypsipetes madagascariensis</i>	„
<i>Lanius cristatus</i>	„
<i>Lanius excubitor</i>	„
<i>Lanius schach</i>	„
<i>Lanius vittatus</i>	„
<i>Lonchura kelaarti</i>	„
<i>Lonchura malabarica</i>	„
<i>Lonchura punctulata</i>	McClure <i>et al.</i> , 1978
<i>Lonchura striata</i>	„
<i>Megalaima australis</i>	„
<i>Megalaima haemacephala</i>	„
<i>Megalaima virens</i>	Subramanian and Singh, 1962b
<i>marshallorum</i>	
<i>Megalaima viridis</i>	McClure <i>et al.</i> , 1978
<i>Megalaima zeylanica</i>	„
<i>Merops orientalis</i>	„
<i>Melophus lathamii</i>	„
<i>Monticola cinclorhynchus</i>	„
<i>Motacilla cinerea</i>	„
<i>Motacilla alba</i>	„
<i>Muscicapa sundra</i>	Subramanian and Singh, 1962b
<i>Muscicapa parva</i>	Nandi <i>et al.</i> , (In press) ; McClure <i>et al.</i> , 1978
<i>Muscicapa latirostris</i>	McClure <i>et al.</i> , 1978
<i>Muscicapa muttui</i>	„
<i>Muscicapa sibirica</i>	„
<i>Muscicapa striata</i>	„
<i>Muscicapa tickelliae</i>	„
<i>Netta rufina</i>	„
<i>Nectarina asiatica</i>	„
<i>Nectarina lotenia</i>	„
<i>Nectarina minima</i>	„
<i>Nectarina zeylonica</i>	„
<i>Oriolus traillii</i>	Subramanian and Singh, 1962b
<i>Orthotomus sutorius</i>	McClure <i>et al.</i> , 1978

<i>Otus bakkamoena</i>	McClure <i>et al.</i> , 1978
<i>Passer domesticus</i>	Singh <i>et al.</i> , 1951 ; McClure <i>et al.</i> , 1978
<i>Passer hispaniolensis</i>	”
<i>Passer rutilans</i>	”
<i>Pericrocotus brevirostris</i>	”
<i>Petronia xanthocollis</i>	”
<i>Phoenicurus ochrurus</i>	”
<i>Phragamaticola aedon</i>	”
<i>Phylloscopus collybita</i>	”
<i>Phylloscopus inornatus</i>	”
<i>Phylloscopus trochiloides</i>	”
<i>Phylloscopus occipitalis</i>	”
<i>Ploceus manyar</i>	”
<i>Ploceus philippinus</i>	”
<i>Prinia gracilis</i>	”
<i>Prinia hodgsoni</i>	”
<i>Prinia socialis</i>	”
<i>Prinia subflava</i>	”
<i>Prinia sylvatica</i>	”
<i>Pycnonotus cafer</i>	Grewal, 1965
<i>standfordi</i>	
(Syn. <i>Molpastes burmanicus</i> )	
<i>Pycnonotus cafer</i>	McClure <i>et al.</i> , 1978
<i>Pycnonotus jocosus</i>	”
<i>Pycnonotus leucogenys</i>	”
<i>Pycnonotus luteolus</i>	”
<i>Rhipidura albogularis</i>	”
<i>Saxicola caprata</i>	Subramanian and Singh, 1962 ; McClure <i>et al.</i> , 1978
<i>Sitta castanea</i>	McClure <i>et al.</i> , 1978
<i>Sitta frontalis</i>	”
<i>Saxicoloides fulicata</i>	”
<i>Streptopelia decaocto</i>	”
<i>Streptopelia orientalis</i>	”
<i>Streptopelia senegalensis</i>	”
<i>Strix ocellata</i>	de Mello, 1935
<i>Sturnus contra</i>	McClure <i>et al.</i> , 1978
<i>Sturnus malabaricus</i>	”
<i>Sturnus pagodarum</i>	”
<i>Sturnus roseus</i>	”
<i>Sturnus vulgaris</i>	”
<i>Sylvia communis</i>	”
<i>Sylvia curruca</i>	”
<i>Sylvia hortensis</i>	”
<i>Tephrodornis pondiceriana</i>	”
<i>Terpsiphone paradisi</i>	”
<i>Treron bicincta</i>	”
<i>Turdoides caudatus</i>	”

<i>Turdoides malcolmi</i>	McClure <i>et al.</i> , 1978
<i>Turdoides striatus</i>	Nandi and Mandal, 1977a,
<i>Turdus merula</i>	McClure <i>et. al.</i> , 1978
<i>Turdus ruficollis</i>	”
<i>Turdus unicolor</i>	”
<i>Vanellus indicus</i>	”
<i>Zoothera citrina</i>	”
<i>Zosterops palpebrosa</i>	

**Genus Plasmodium**

1. <i>P. circumflexum</i> Kikuth, 1931	<i>Dendrocitta vagabunda</i>	Nandi <i>et al.</i> , (In press)
2. <i>P. coturnixae</i> Sarkar and Ray, 1972	<i>Coturnix coromandalica</i>	Sarkar and Ray, 1969, 1972
3. <i>P. gallinaceum</i> Brumpt, 1935	<i>Gallus sonneratii</i>	Shortt <i>et al.</i> , 1941
4. <i>P. gallinulae</i> de Mello, 1935 (?)	<i>Gallus</i> sp. <i>Gallinula chloropus</i>	Rao <i>et al.</i> , 1951 de Mello, 1935a
5. <i>P. herodiadis</i> de Mello, 1935 (?)	<i>Egretta i. intermedia</i> (Syn. <i>Herodias intrmedias</i> )	de Mello, 1935a
6. <i>P. heroni</i> Basu, 1938(?)	<i>Ardeola grayii</i> ( <i>Pond heron</i> )	Basu, 1938
7. <i>P. juxtannucleare</i> Versiani and Gomes, 1941	<i>Francolinus</i> sp.	Ray and Bhatanager, 1953
8. <i>P. nucleophilum</i> Man- well, 1935	<i>Sturnus malabaricus</i>	Nandi <i>et al.</i> (In press)
9. <i>P. polare</i> Manwell, 1934	<i>Francolinus pondiceri- anus interpositus</i>	Ray <i>et al.</i> , 1953
10. <i>P. relictum</i> (Grassi and Feletti, 1891)	<i>Passer domesticus</i>  <i>Lonchura malabarica</i> (Syn. <i>Uroloncha mala barica</i> )	Singh <i>et al.</i> , 1952  Grewal, 1962
[Syn. <i>P. centropi</i> de Mello, 1935 ; <i>P. chloropsidis</i> de Mello, 1935 ; <i>P. praecox</i> (Grassi and Felletti, 1890) ; <i>P. praecox</i> var. <i>muniae</i> Das Gupta and Siddons, 1941 ; <i>P. pericrocoti</i> Chakra- varty and Kar, 1945 ;  <i>P. ploceii</i> Chakravarty and Kar, 1945 ; ]	<i>Centropus sinensis</i> <i>parroti</i> <i>Chloropsis aurifrons</i> <i>Chloropsis aurifrons</i> <i>davidseni</i> <i>Pycnonotus cafer</i> <i>intermedius</i> <i>Ploceus philippinus</i>	de Mello, 1935  ” ”  Grewal, 1964b  Chakravarty and Kar, 1945, Singh <i>et al.</i> , 1952 ; Nandi <i>et al.</i> , (In press)

	<i>Pericrocotus cinnamomeus peregrinus</i> (Syn. <i>P. c. iredalei</i> )	Chakravarty and Kar, 1945b
	<i>Lonchura malacca atricapilla</i> (Syn. <i>Munia a. atricapilla</i> )	Das Gupta and Siddons 1941a
	<i>Columba livia intermedia</i>	Nandi <i>et al.</i> , (In press)
	<i>Corvus splendens</i>	Nandi <i>et al.</i> , (In press)
	<i>Muscicapa t. thalassina</i>	Nandi and Mandal, 1978
	<i>Picoides m. mahra-ttensis</i>	Nandi, 1976
	<i>Motacilla alba</i>	McClure <i>et al.</i> , 1978
	<i>Tragopan satyra</i>	Das Gupta and Paul, 1973
11. <i>P. vauhani</i> Novy and MacNeal, 1904	<i>Acridotheres t. tristis</i>	Nandi, 1976
12. <i>P. sp.</i>	<i>Accipiter virgatus affinis</i>	Sinha and Sinha, 1980
	<i>Acridotheres tristis</i>	McClure <i>et al.</i> , 1978
	<i>Anser anser</i>	"
	<i>Centropus sinensis</i>	Ghosh and Dasgupta, 1978, 1980
	<i>Chrysoma sinense</i>	McClure <i>et al.</i> , 1978
	<i>Cisticola juncidis</i>	Qadri, 1962
	<i>Copsychus saularis</i>	McClure <i>et al.</i> , 1978
	<i>Corvus splendens</i>	Donovan, 1904
	<i>Dendrocitta vagabunda</i>	Nandi <i>et al.</i> (In press) McClure <i>et al.</i> , 1978
	<i>Hippolais caligata</i>	McClure <i>et al.</i> , 1978
	<i>Hypsipetes madagascariensis</i>	"
	<i>Lanius cristatus</i>	"
	<i>Lanius schach</i>	"
	<i>Megalaima haemacephala</i>	Nandi <i>et al.</i> , (In press)
	<i>Megalaima viridis</i>	McClure <i>et al.</i> , 1978
	<i>Megalaima zeylanica</i>	"
	<i>Merop orientalis</i>	"
	<i>Nectarina asiatica</i>	"
	<i>Nectarina zeylanica</i>	"
	<i>Netta rufina</i>	"
	<i>Otus scops</i>	Nandi <i>et al.</i> (In press)
	<i>Parus xanthogenys</i>	McClure <i>et al.</i> , 1978
	<i>Pitta brachyura</i>	"
	<i>Ploceus philippinus</i>	Nandi <i>et al.</i> (In press) McClure <i>et al.</i> , 1978
	<i>Prinia socialis</i>	McClure <i>et al.</i> , 1978
	<i>Prinia subflava</i>	"
	<i>Pycnonotus cafer</i>	McClure <i>et al.</i> , 1978
	<i>Psynonotus jocosus</i>	"
	<i>Pycnonotus leucogenys</i>	"
	<i>Rhipidura albogularis</i>	"
	<i>Saxicola caprata</i>	"
	<i>Saxicoloides fulicata</i>	"

<i>Sturnus contra</i>	Nandi <i>et al.</i> , (In press) ; McClure <i>et al.</i> , 1978
<i>Sturnus malabaricus</i>	”
<i>Sylvia curruca</i>	”
<i>Tephrodornis virgatus</i>	”
<i>Terpsiphone paradisi</i>	Nandi and Mandal, 1977a
<i>Zosterops palpebrosa</i>	”
<i>Upupa epops</i>	”

**Genus Babesia**

1. <i>Babesia</i> sp.	<i>Sturnus pagodorum</i>	McClure <i>et al.</i> , 1978
-----------------------	--------------------------	------------------------------

**Microfilaria**

1. <i>M. acridotheris</i> de Mello	<i>Acridotheres t. tristis</i>	de Mello, 1937b
2. <i>M. aegithinae</i> de Mello, 1937	<i>Aegithina tiphia</i>	”
3. <i>M. anthi</i> de Mello	<i>Anthus novaeseelandiae rufulus</i> (syn. <i>Anthus r. rufulus</i> )	”
4. <i>M. ardeolae</i> de Mello, 1937	<i>Ardeola grayii</i>	”
5. <i>M. buckleyi</i> Grewal, 1965	<i>Pycnonotus cafer standfordi</i> (Syn. <i>Molpastes burmanicus</i> )	Grewal, 1965
6. <i>M. centropi</i> de Mello, 1937	<i>Centropus sinensis parroti</i>	de Mello, 1937b
7. <i>M. chloropsidis</i> de Mello, 1935	<i>Chloropsis aurifrons frontalis</i> (Syn. <i>Chloropsis aurifrons davidsoni</i> )	de Mello, 1935a
8. <i>M. columbae</i> Ray and Das Gupta, 1936	<i>Columbia intermedia</i>	Ray and Das Gupta, 1936, <i>vide pande et al.</i> , 1962
9. <i>M. copsiyci</i> de Mello, 1937	<i>Copsychus saularis</i>	de Mello, 1937b
10. <i>M. dendrocittae</i> de Mello, 1937	<i>Dendrocitta v. vagabunda</i> (Syn. <i>D. rufa vagabunda</i> ) <i>Dendrocitta vagabunda parvula</i> (Syn. <i>D. rufa rufa</i> )	” ”
11. <i>M. dissemeri</i> de Mello, 1937	<i>Dicrurus p. paradiseus</i> (Syn. <i>Dissemerus paradiseus malabaricus</i> )	”

*Note* : The italicized names were ascribed to *Microfilaria* as a genus. However the microfilariae are embryonic nemas and that the genus *Microfilaria* has no status. Identification of microfilaria requires that they first be associated with their parent adults before they can be ascribed to their correct genus and species. Much of the Mello's work on this group has no taxonomic validity and only serves to show that a given species of avian host harboured and unknown microfilaria.

12. <i>M. dicruri</i> de Mello, 1937	<i>Dicrurus adsimilis macrocercus</i> (Syn. <i>D. m. macrocercus</i> )	de Mello, 1937b
13. <i>M. geocichlae</i> de Mello, 1937	<i>Zoothera citrina cyanotus</i> (Syn. <i>Geocichla c. cyanotis</i> ) <i>Zoothera citrina</i> (Syn. <i>Geocichla citrina</i> )	„
14. <i>M. herculani</i> de Mello, 1937	<i>Zoothera citrina</i> (Syn. <i>Geocichla citrina</i> )	„
15. <i>M. herodiadis</i> de Mello, 1935	<i>Egretta intermedia</i> (Syn. <i>Herodias intermedius</i> )	de Mello, 1935a
16. <i>M. horai</i> de Mello, 1937	<i>Anthus novaeseelandiae rufulus</i> (Syn. <i>Anthus r. rufulus</i> )	de Mello, 1937b
17. <i>M. jeeti</i> Grewal, 1965	<i>Pycnonotus cafer standfordi</i> (Syn. <i>Molpastes burmanicus</i> )	Grewal, 1965
18. <i>M. jerdoni</i> de Mello, 1937	<i>Chloropsis cochinchinensis jerdoni</i> (Syn. <i>Chloropsis jerdoni</i> )	de Mello, 1937b
19. <i>M. jorgei</i> de Mello, 1937	<i>Megalaima zeylanica</i> (Syn. <i>Thereiceryx zeylanicus</i> )	de Mello, 1937b
20. <i>M. lalagei</i> de Mello, 1937	<i>Coracina melaschistos</i> (Syn. <i>Lalage melaschista</i> )	de Mello, 1937b
21. <i>M. mccanni</i> de Mello, 1937	<i>Centropus sinensis parroti</i>	„
22. <i>M. merulae</i> de Mello, 1937	<i>Turdus merula nigropileus</i>	de Mello, 1937b
23. <i>M. molpastis</i> de Mello, 1937	<i>Pycnonotus cafer</i> (Syn. <i>Molpastes cafer</i> )	„
24. <i>M. monticolae</i> de Mello, 1937	<i>Monticola solitorias pandoo</i> (Syn. <i>M. solitoria pandoo</i> )	„
25. <i>M. moruoni</i> de Mello, 1937	<i>Copsychus saularis</i>	„
26. <i>M. nycticoracis</i> de Mello, 1937	<i>Nycticorax n. nycticorax</i>	„
27. <i>M. prashadi</i> de Mello, 1937	<i>Anthus novaeseelandiae rufulus</i> (Syn. <i>Anthus r. rufulus</i> )	„
28. <i>M. prateri</i> de Mello, 1937	<i>Zoothera citrina</i> (Syn. <i>Geocichla citrina</i> )	„
29. <i>M. pycnonoti</i> de Mello, 1937	<i>Pycnonotus luteolus</i>	„



(Syn. *Munia a. atricapilla*)

<i>Megalaima australis</i>	McClure <i>et al.</i> , 1978
<i>Megalaima haemacephala</i>	Nandi <i>et al.</i> (In press)
	McClure <i>et al.</i> , 1978
<i>Megalaima viridis</i>	McClure <i>et al.</i> , 1978
<i>Merops orientalis</i>	”
<i>Monticola cinclorhynchus</i>	”
<i>Muscicapa tickelliae</i>	”
<i>Mycerobas affinis</i>	Nandi and Mandal, 1977b, 1978
Parrot (unidentified)	Subramanian and Singh, 1962b
<i>Parus monticolus</i>	McClure <i>et al.</i> , 1978
<i>Parus xanthogenys</i>	”
<i>Passer domesticus</i>	Nandi <i>et al.</i> (In press)
<i>Passer hispaniolensis</i>	McClure <i>et al.</i> , 1978
<i>Perdicula argoondah</i>	”
<i>Petronia xanthocollis</i>	”
<i>Phylloscopus f. fuscatus</i>	Nandi <i>et al.</i> (In press)
<i>Pitta brachyura</i>	McClure <i>et al.</i> , 1978
<i>Ploceus philippinus</i>	Nandi <i>et al.</i> (In press)
<i>Prinia sylvatica</i>	McClure <i>et al.</i> , 1978
<i>Pycnonotus cafer</i>	Nandi <i>et al.</i> (In press)
<i>Pycnonotus jocosus</i>	McClure <i>et al.</i> , 1978
<i>Saxicoloides fulicata</i>	Nandi <i>et al.</i> (In press)
	McClure <i>et al.</i> , 1978
<i>Sturnus contra</i>	Nandi <i>et al.</i> (In press)
<i>Sturnus malabaricus</i>	McClure <i>et al.</i> , 1978
<i>Sturnus pagodarum</i>	”
<i>Terpsiphone paradisi</i>	”
<i>Turdoides caudata</i>	”
<i>Turdoides malcolmi</i>	”
<i>Turdoides striata</i>	”
<i>Turdus merula</i>	”
<i>Turnix suscitator</i>	”
<i>Upupa epops</i>	Nandi and Mandal, 1977a ; McClure <i>et al.</i> , 1978
<i>Zoothera citrina</i>	McClure <i>et al.</i> , 1978
<i>Zosterops palpebroso</i>	”
<i>Vanellus indicus</i>	”
<b>Unidentified Parasites</b>	
<i>Aegithina tiphia</i>	McClure <i>et al.</i> , 1978
<i>Anas crecca</i>	”
<i>Chloropus aurifrons</i>	”
<i>Dendrocitta vagabunda</i>	”
<i>Eremopterix grisea</i>	”
<i>Perdicula argoondah</i>	”
<i>Prinia buehanani</i>	”
<i>Pycnonotus leucogenys</i>	”
<i>Saxicoloides fulicata</i>	”
<i>Turdus unicolor</i>	”
<i>Upupa epops</i>	”
<i>Zosterops palpebroso</i>	”

Unidentified Parasites

HOST CATALOGUE

Host Parasite

Order : CICONIFORMES REFERENCE

1. Family : ARDEIDAE Herons and Egrets

1. <i>Ardea cinerea</i> Linnaeus	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
2. <i>Ardeola grayii</i> (Sykes)	<i>L. ardeolae</i>	de Mello, 1936, 1937a
	<i>P. heroni</i> (?)	Basu, 1938
	<i>Mf. ardeolae</i>	de Mello, 1936, 1937b ; de Mello and da Fouseea, 1937
3. <i>Egretta intermedia</i> (Wagler)	<i>H. herodiadis</i>	de Mello, 1935c, 1936
(= <i>Herodias intermedius</i> )	<i>P. herodiadis</i>	de Mello, 1935
	<i>Mf. herodiadis</i>	de Mello, 1935a
4. <i>Ixobrychus m. minuta</i>	<i>T. ixobrychi</i>	de Mello, 1935d
5. <i>Nycticorax n.</i> <i>nycticorax</i> (Linnaeus)	<i>T. nycticoracis</i>	Stephens and Christopher, 1908 ; de Mello, 1937a
	<i>Mf. nycticoracis</i>	de Mello, 1937b

2. Family : THRESKIORNITHIDAE, Ibises, Spoonbills

6. <i>Platalea leucorida major</i> Temm. & Schlegel	<i>H. plateleae</i>	de Mello, 1935c, 1936
7. <i>Pseudibis p. papillosa</i>	<i>H. plataleae</i>	Nandi, 1976

Order : ANSERIFORMES

3. Family : ANATIDAE, Ducks, Geese and Swans

8. <i>Anas acuta</i> Linnaeus	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>L. sp.</i>	"
9. <i>Anas crecca</i> Linnaeus	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
	U.P.	"
10. <i>Anas penelope</i> Linnaeus	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
11. <i>Anas querquedula</i> Linnaeus	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
12. <i>Anser anser</i> (Linnaeus)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>P. sp.</i>	"
13. <i>Aythya ferina</i> (Linnaeus)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
14. <i>Aythya fuligula</i> Linnaeus	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
15. <i>Netta rufina</i> (Pallas)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>P. sp.</i>	"

Order : FALCONIFORMES

4. Family : ACCIPITRIDAE, Hawks

16. <i>Accipiter badius</i> (Gmelin)	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
	<i>H. sp.</i>	"
	<i>Mf.</i>	"

- |  |                                |                                    |
|--|--------------------------------|------------------------------------|
| 17. <i>Accipiter badius</i><br><i>dussumieri</i> (Temminck)<br>(= <i>Astur badius</i><br><i>dussumieri</i> ) | <i>H. asturisdussumieri</i>    | de Mello, 1935c                    |
| 18. <i>Accipiter nisus</i><br>(Linnaeus)   | <i>L. sp.</i><br><i>H. sp.</i> | McClure <i>et al.</i> , 1978<br>"  |
| 19. <i>Accipiter virgatus</i><br>(Temminck)  | <i>L. sp.</i>                  | McClure <i>et al.</i> , 1978       |
| 20. <i>Accipiter virgatus</i><br><i>affinis</i> (Hodgson)  | <i>P. sp.</i>                  | Sinha and sinha, 1980              |
| 21. <i>Butastur teesa</i><br>(Franklin)  | <i>Toxoplasma butasturis</i>   | de Mello, 1936, 1937a              |
| 22. <i>Buteo vulpinus</i> (Gloger)   | <i>T. sp.</i>                  | de Mello, 1936                     |
| 23. <i>Buteo v. vulpinus</i><br>(Gloger)   | <i>H. sp.</i>                  | Nandi and Mandal, 1978             |
| 24. <i>Elanus caeruleus</i><br><i>vociferus</i> (Latham)   | <i>H. elani</i>                | de Mello, 1935c                    |
| 25. <i>Milvus migrans govinda</i><br>Sykes<br>(= <i>Milvus govinda</i> )                                     | <i>T. milvi</i>                | Stephens and Christophers,<br>1908 |

#### 5. Family : FALCONIDAE, Falcons

- |   |                       |   |
|---|-----------------------|---|
| 26. <i>Falco sp.</i>  | <i>L. sp.</i>         | Donovan, 1904                           |
| 27. <i>Falco tinnunculus</i><br>Linnaeus  | <i>H. sp.</i>         | McClure <i>et al.</i> , 1978            |
| 28. <i>Falco tinnunculus</i><br><i>objurgatus</i> (Baker)<br>(= <i>Cerchneis tinnunculus</i><br><i>objurgatus</i> ) | <i>H. cerchneisi</i>  | de Mello, 1935c, 1936 ;<br>Bhatia, 1938 |
| 29. <i>Falco t. tinnunculus</i><br>(Linnaeus)   | <i>H. tinnunculus</i> | Nandi, 1976                             |

#### Order : GALLIFORMES

#### 6. Family : MEGAPODIIDAE, Megapodes

- |  |                      |                        |
|--|----------------------|------------------------|
| 30. <i>Megapodius freycinet</i><br><i>abbotti</i> Oberholser | <i>H. megapodius</i> | Nandi and Mandal, 1980 |
|--|----------------------|------------------------|

#### 7. Family : PHASIANIDAE, Pheasants and Quail

- |  |                                       |   |
|--|---------------------------------------|---|
| 31. <i>Coturnix communis</i>                         | <i>T. sp.</i>                         | Singh <i>et al.</i> , 1956  |
| 32. <i>Coturnix coromandelica</i><br>(Gmelin)        | <i>L. sp.</i><br><i>P. coturnixae</i> | McClure <i>et al.</i> , 1978<br>Sarkar and Ray, 1969, 1972  |
| 33. <i>Coturnix coturnix</i><br>(Linnaeus)           | Mf.                                   | David, 1956   |
| 34. <i>Francolinus pictus</i><br>(Jardine and Selby) | <i>L. sp.</i>                         | McClure <i>et al.</i> , 1978  |
| 35. <i>Francolinus pondicerianus</i> (Gmelin)        | <i>T. sp.</i><br><i>L. sp.</i><br>Mf. | McClure <i>et al.</i> , 1978 ;<br>Singh <i>et al.</i> , 1956<br>McClure <i>et al.</i> , 1978<br>David, 1955, 1956 ; McClure<br><i>et al.</i> , 1978 |

36. <i>Fracolinus pondicerianus interpositus</i> Hartet	<i>P. polare</i>	Ray <i>et al.</i> , 1953
37. <i>Fracolinus</i> sp.	<i>P. juxtannucleare</i> <i>L. sp.</i>	Ray and Bhatnager, 1953 Gill and Ray, 1955
38. <i>Fracolinus vulgaris</i> Stephens	Mf.	Singh, 1956
39. <i>Galloperdix spadicea</i> (Gmelin)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
40. <i>Gallus</i> sp. (domestic and exotic fowl)	<i>L. caulleryi</i>  <i>L. sabrazesi</i>  <i>Akiba (Leucocytozoon) caulleryi</i> <i>P. gallinaceum</i> <i>Piroplasma tropicus</i> (?) (Probably Rickettsia <i>Aegyptianella pullorum</i> ) Mf.	Ramanujachari and Alwar, 1953 ; Ramaswami 1953 ; Biswal and Naik, 1958 As for <i>L. caulleryi</i> and Nandi and Mandal, 1976 ; 1977c Siddons, 1979  Rao <i>et al.</i> , 1951 Lingard and Jennings, 1904  Ramanujachari and Alwar, 1953 ; Pattanayak, 1955 ; Pattanayak <i>et al.</i> , 1956
41. <i>Gallus sonneratii</i> Temminck	<i>P. gallinaceum</i>	Short <i>et al.</i> , 1941
42. <i>Pavo cristatus</i> Linnaeus	<i>H. rileyi</i>	Malkani, 1936
43. <i>Perdicula argoondah</i> (Sykes)	<i>L. sp.</i> Mf. U.P.	McClure <i>et al.</i> , 1978 " "
44. <i>Tragopan satyra</i> (Linnaeus)	<i>P. relictum</i>	Das Gupta and Paul, 1973

Order : GRUIFORMES

7. Family : TURNICIDAE, Button Quails

45. <i>Turnix suscitator</i> (Gmelin)	Mf.	McClure <i>et al.</i> , 1978
---------------------------------------	-----	------------------------------

8. Family : GRUIDAE, Cranes

46. <i>Grus antigone</i> (Linnaeus) (= <i>Antigone antigone</i> )	<i>H. antigonis</i>	de Mello, 1935c
--	---------------------	-----------------

9. Family : RALLIDAE, Rails

47. <i>Anthropoides virgo</i> (Linnaeus) (= <i>Antigone virgo</i> )	<i>H. antigonis</i>	de Mello, 1935c
48. <i>Fulica atra</i> Linnaeus	<i>T. fulicae</i> <i>H. gallinulae</i> (Syn. <i>H. fulicae</i> ) <i>Toxoplasma fulicae</i>	da Fonseca, 1938 " de Mello, 1935b ; da Fonseca, 1938

49. *Gallinula chloropus* *H. gallinulae* de Mello, 1935c  
(Linnaeus)  
*H. sp.* McClure *et al.*, 1978  
*P. gallinulae* de Mello, 1935a

## Order : CHARADRIIFORMES

## 10. Family : CHARADRIIDAE, Plovers

50. *Vanellus indicus* *L. sp.* McClure *et al.*, 1978  
(Boddaert)  
*H. sp.* ”  
Mf. ”  
51. *Vanellus i. indicus* *T. lobivanelli* de Mello, 1935d  
(Boddaert)  
(= *Lobivanellus i. indicus*)

## Order : COLUMBIFORMES

## 11. Family : COLUMBIDAE, Doves and Pigeons

52. *Chalcophaps indica* Mf. McClure *et al.*, 1978  
(Linnaeus)  
53. *Columba livia* Gmelin *T. hanna* Hanna, 1903 ; Pittaluga, 1905 ;  
(= *C. livia domestica*) (= *T. columbae*) Stephens and Christophers,  
Pigeon and domestic *H. columbae* 1908 ; de Mello *et al.*, 1917  
Acton and Knowles, 1914 ;  
Alcock, 1914 ; Adia, 1915 ; de  
Mello and Braz da Sa, 1916 ; de  
Mello *et al.*, 1917 ; Chakravarty  
and Kar, 1945 ; Singh *et al.*,  
1951 ; Narang and Bhatnagar,  
1969 McClure *et al.*, 1978  
*H. sp.*  
*Haemogregarina francae?* de Mello, 1915  
*Leucocytogregarina*  
*francae?* de Mello, *et al.*, 1917  
54. *Columba livia inter-* *H. columbae* Nandi, 1976, 1978 ; Nandi *et*  
*media* Strickland *al.* (In press) ; Chakravarty and  
(= *Columba intermedia*) *P. relictum* Kar, 1945b  
Nandi *et al.*, (In press)  
*Mf. columbae* Ray and Das Gupta, 1936  
Mf. Singh, 1958  
55. *Streptopelia chinensis* *T. sp.* Qadri, 1962  
*H. columbae* Nandi and Mandal, 1977a  
*H. sacharovi* Nandi and Mandal, 1977a  
56. *Streptopelia decaocto* *T. sp.* McClure *et al.*, 1978  
(Frivaldszky) *L. sp.* ”  
*H. sp.* ”  
57. *Streptopelia orientalis* *L. sp.* McClure *et al.*, 1978  
(Latham)  
*H. sp.* ”  
58. *Streptopelia senegalensis* *L. sp.* McClure *et al.*, 1978  
(Linnaeus)  
59. *Streptopelia senegalensis* *H. sp.* McClure *et al.*, 1978  
*cambayensis* (Gmelin) *Mf. streptopeliae* de Mello, 1137b



72. <i>Bubo coromandus</i> (Latham)	<i>H. noctuae</i>	McClure <i>et al.</i> , 1978
73. <i>Bubo zeylonensis</i> (Gmelin) (= <i>Ketupa zeylonensis</i> )	<i>H. sp.</i>	Nandi, 1978
74. <i>Glaucidium cuculoides</i> (Vigors)	<i>T. avium</i>	Nandi and Mandal, 1978
	<i>L. danilewskyi</i>	Nandi and Mandal, 1978
	<i>H. celli</i>	Nandi and Mandal, 1978
	Mf.	Nandi and Mandal, 1978
75. <i>Glaucidium radiatum</i> (Tickell)	<i>H. glaucidii</i>	de Mello, 1935c ; Nandi and Mandal, 1977a
	<i>H. noctuae</i>	McClure <i>et al.</i> , 1978
76. <i>Glaucidium brodiei</i> (Burton)	<i>H. sp.</i>	Subramanian and Singh, 1962
	<i>T. sp.</i>	„
77. <i>Ninox scutulata</i> (Raffles)	<i>H. celli</i>	McClure <i>et al.</i> , 1978
78. <i>Otus bakkamoena</i>	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
	<i>H. celli</i>	„
	<i>H. noctuae</i>	„
	<i>H. sp.</i>	„
79. <i>Otus scops</i> (Linnaeus)	<i>H. syrni</i>	Nandi <i>et al.</i> (In press)
	<i>P. sp.</i>	Nandi <i>et al.</i> (In press)
80. <i>Strix aluco biddulphi</i> Scully	<i>H. celli</i>	Nandi and Mandal, 1978
81. <i>Strix ocellata</i> (Lesson)	<i>H. sp.</i>	de Mello, 1935a

## Order : CORACIIFORMES

## 15. Family : ALCEDINIDAE, Kingfishers

82. <i>Halcyon smyrnensis</i> (Linnacus)	<i>H. halcyonis</i>	de Mello, 1935c ; McClure <i>et al.</i> , 1978
	<i>H. fusca</i>	McClure <i>et al.</i> , 1978
83. <i>Halcyon smyrnensis</i> <i>fusca</i> (Boddaert)	<i>H. fusca</i> (= <i>H. halcyonis</i> var <i>fuscae</i> )	de Mello and da Fonseca, 1937 ; Bennett and Campbell, 1973

## 16. Family : MEROPIDAE, Bee-eaters

84. <i>Merops orientalis</i> Latham	<i>H. meropis</i>	Zargar, 1945 ; Nandi and Mondal, 1977a
	<i>H. manwelli</i>	Bennett, 1978
	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>P. sp.</i>	„
	Mf.	„
85. <i>yctyornis athertoni</i> Jardine and Selby)	<i>Leucocytozoon sp.</i>	Nandi, 1978

17. Family : CORACIIDAE, Rollers

86. *Coracias benghalensis* L. sp. McClure *et al.*, 1978  
(Linnaeus)  
H. sp. ”
87. *Coracias b. benghalensis* L. *coraciae* de Mello and Afonso, 1935  
(Linnaeus)  
L. *melloi* Bhatia, 1938  
H. *coraciae* de Mello and Afonso, 1935 ;  
Nandi, 1976
88. *Coracias benghalensis* H. *coraciae* Valles, 1938 ; Nandi, 1978  
*indica* Linnaeus  
(= *Coracias indica*)

18. Family : UPUPIDAE, Hoopoe

89. *Upupa epops* Linnaeus L. sp. McClure *et al.*, 1978  
P. sp. ”  
U.P. ”  
Mf. Nandi and Mandal, 1978
90. *Upupa epops ceylonensis* H. *upupae* de Mello, 1935c  
Reichenbach  
(= *Upupa epops orientalis*)

Order : PICIFORMES

19. CAPITONIDAE, Barbet

91. *Megalaima a. asiatica* H. *thereicerycis* Nandi *et. al.*, (In press)  
(Latham)
92. *Megalaima australis* L. sp. McClure *et al.*, 1978  
(Horsfield) H. sp. ”  
Mf. ”
93. *Megalaima haemacephala* H. *thereicerycis* Zargar, 1945 ; Bennett and  
(Miiller) Nandi, 1981 ; Nandi *et al.*, (In  
press)  
(= *Xantholaema haemacephala*) H. *cornuata* Nandi, 1978  
H. *xantholaemae* Zargar, 1945 ; Bennett  
(= *H. xantholaemi*) and Nandi, 1981  
H. sp. McClure *et al.*, 1978  
P. sp. Nandi *et al.* (In press)  
Mf. ”
94. *Megalaima virens* H. sp. Subramanian and Singh, 1962b  
*marshallorum* Swinhoe
95. *Megalaima viridis* H. *thereicerycis* de Mello, 1935c ; Bennett and  
(Boddaert) (*H. thereicerycis* var Nandi, 1981  
(= *Thereiceryx viridis*) *zeylanicus*)  
H. *xantholaemae* Bennett and Nandi, 1981  
H. *cornuata* ”  
H. sp. McClure *et al.*, 1978  
L. sp. ”  
P. sp. ”  
Mf. ”

- |  |  |   |
|--|--|---|
| 96. <i>Megalaima zeylanica</i><br>(Gmelin)   | <i>H. thereicerycis</i><br><i>H. sp.</i><br><i>P. sp.</i><br><i>Mf. jorgei</i><br><i>Mf. thereicerycis</i> | Nandi and Mandal, 1978 ;<br>Bennett and Nandi, 1981<br>McClure <i>et al.</i> , 1978<br>"<br>de Mello, 1937b<br>"<br>de Mello, 1935c |
| 97. <i>Megalaima zeylanica</i><br><i>inornata</i> (Walden)<br>(= <i>Thereiceryx zeylanicus</i><br><i>inornata</i> )          | <i>H. thereicerycis</i>  | de Mello, 1935c   |
| 98. <i>Megalaima z. zeylanica</i><br>(Gmelin)<br>(= <i>Thereiceryx z.</i><br><i>zeylanicus</i> )                             | <i>H. thereicerycis</i><br>(= <i>H. thereicerycis</i> var.<br><i>zeylanicus</i> )                          | de Mello, 1935c, 1936, 1937a  |
| 20. Family : PICIDAE, Woodpeckers  |  |   |
| 99. <i>Dendrocopos auriceps</i><br>(Vigors)<br>(= <i>Drybates auriceps</i> )   | <i>Toxoplasma sp.</i>  | Pande <i>et al.</i> , 1961  |
| 100. <i>Dendrocopos h. hima-</i><br><i>layensis</i> Jardine and<br>Selby<br>(= <i>Drybates h. hima-</i><br><i>layensis</i> ) | <i>Toxoplasma sp.</i>  | Pande <i>et al.</i> , 1961  |
| 101. <i>Dendrocopos mahratten-</i><br><i>sis</i> (Latham)  | <i>H. velans</i>   | Greiner <i>et al.</i> , 1977 ; McClure<br><i>et al.</i> , 1978  |
| 102. <i>Jynx torquilla</i> Linnaeus  | <i>H. velans</i>   | Greiner <i>et al.</i> , 1977 ;<br>McClure <i>et al.</i> , 1978  |
| 103. <i>Jynx torquilla hima-</i><br><i>layana</i> Vaurie   | <i>H. borgesii</i><br>Mf.  | Nandi and Mandal, 1978<br>Nandi and Mandal, 1977b, 1978   |
| 104. <i>Picoides m. mahratten-</i><br><i>sis</i> (Latham)  | <i>H. borgesii</i><br><i>H. velans</i><br><i>P. relictum</i>   | Nandi, 1976<br>"<br>"   |
| 105. <i>Picus canus</i> Gmelin   | <i>H. borgesii</i>   | Greiner <i>et al.</i> , 1977  |
| 106. <i>Picus canus gyldens-</i><br><i>tolpei</i> Baker  | <i>H. borgesii</i>   | Nandi, 1978   |
| 107. <i>Picus chloropus</i> Vieillot   | <i>L. sp.</i><br><i>H. velans</i>  | McClure <i>et al.</i> , 1978<br>"   |
| 108. <i>Picus flavinucha</i> Gould   | <i>H. bennetti</i>   | Greiner <i>et al.</i> , 1977<br>Nandi <i>et al.</i> (In press)  |
| 109. <i>Picus s. squamatus</i><br>Vigors   | <i>L. sp.</i>  | Nandi and Mandal, 1978  |

## Order : PASSERIFORMES

## 21. Family : PITTIDAE, Pittas or Jewel Thrushes

- |                             |  |   |
|-----------------------------|--|---|
| 110. <i>Pitta brachyura</i> | <i>T. sp.</i><br><i>L. sp.</i><br><i>P. sp.</i><br>Mf. | McClure <i>et al.</i> , 1978<br>"<br>"<br>" |
|-----------------------------|--|---|

22. Family : ALAUDIDAE, Larks

111. *Eremopterix grisea* *H. sp.* McClure *et al.* 1978  
 (Scopoli) U.P. ”  
 112. *Galerida cristata* *H. sp.* McClure *et al.*, 1978  
 (Linnaeus)  
 113. *Galerida deva* (Sykes) *H. sp.* McClure *et al.*, 1978

23. Family : CAMPEPHAGIDAE, Minivets and Cuckoo-Shrikes

114. *Coracina melaschistos* *Mf. lalagei* de Mello, 1937b  
 (Hodgson)  
 (= *Lalage melaschista*)  
 115. *Hemipus picatus* (Sykes) *L. sp.* McClure *et al.*, 1978  
 116. *Pericrocotus cinnamo-* *P. relictum* Chakravarty and Kar, 1945a  
*meus peregrinus* (= *P. perecrocoti*)  
 (= *Pericrocotus cinnamo-*  
*meus iredalei*)  
 117. *Pericrocotus breviro-* *H. sp.* McClure *et al.*, 1978  
*tris* (Vigors)  
 119. *Tephrodornis p. pondi-* *H. tephrodornis* de Mello, 1935c  
*ceriana* (Gmelin)  
 120. *Tephrodornis virgatus* *P. sp.* McClure *et al.*, 1978  
 (Temminck)

24. Family : DICRURIDAE, Drongos

121. *Dicrurus adsimilis* *T. avium* Nandi *et al.* (In press)  
 (Bechstein) *H. dicruri* Nandi and Mondal, 1977a,  
 1978  
*H. sp.* Nandi *et al.* (In press)  
*Mf.* McClure *et al.*, 1978  
 Nandi *et al.* (In press)  
 122. *Dicrurus adsimilis* *H. dicruri* de Mello, 1935c, 1936  
*macrocerus* Vieillot  
 (Syn. *Dicrurus m.* *Mf. dicruri* de Mello, 1937b  
*macrocerus*)  
 123. *Dicrurus caerulescens* *H. sp.* McClure *et al.*, 1978  
 (Linnaeus)  
 124. *Dicrurus paradiseus* *H. sp.* McClure *et al.*, 1978  
 (Linnaeus)  
*Mf.* ”  
 125. *Dicrurus p. paradiseus* *Mf. dissemeri* de Mello, 1937a  
 (Syn. *Dicrurus para-*  
*diseus malabaricus*)

25. Family : ORIOLIDAE, Orioles

126. *Oriolus oriolus* *T. sp.* McClure *et al.*, 1978  
 (Linnaeus)  
*L. sp.* ”  
 127. *Oriolus oriolus kundoo* *T. sp.* de Mello, 1936  
 Sykes *L. sp.* ”  
*H. orioli* de Mello, 1935c

- |   |                      |                              |
|---|----------------------|------------------------------|
| 128. <i>Oriolus trailii</i> (Vigors)            | <i>T. sp.</i>        | Subramanian and Singh, 1962b |
|   | <i>H. sp.</i>        | „                            |
| 129. <i>Oriolus x. xanthornus</i><br>(Linnaeus) | <i>L. sp.</i>        | de Mello, 1936               |
|   | <i>Mf. xanthorni</i> | „                            |

## 26. Family : CORVIDAE, Crows, Jays

- |   |                         |  |
|---|-------------------------|--|
| 130. <i>Corvus monedula</i><br>Linnaeus   | <i>T. corvi</i>         | Stephens and Christophers,<br>1908                               |
| 131. <i>Corvus macrorhynchos</i><br>Wagler<br>(= <i>Corvus macro-</i><br><i>rhynchus</i> )            | <i>H. sp.</i>           | de Mello <i>et al.</i> , 1917 ;<br>McClure <i>et al.</i> , 1978  |
|   | <i>Mf.</i>              | Sen <i>et al.</i> , 1965   |
| 132. <i>Corvus splendens</i><br>Vieillot  | <i>T. sp.</i>           | Danovan, 1904  |
|   | <i>H. sp.</i>           | Danovan, 1904 ; McClure<br><i>et al.</i> , 1978                  |
|   | <i>H. danilewskyii</i>  | Nandi <i>et al.</i> (In press) ; Bhatia,<br>1938                 |
|   | <i>P. relictum</i>      | Nandi <i>et al.</i> (In press)                                   |
|   | <i>P. sp.</i>           | Donovan, 1904  |
|   | <i>Mf.</i>              | McClure <i>et al.</i> , 1978                                     |
| 133. <i>Dendrocitta formosae</i><br>(Swinhoe)   | <i>L. sp.</i>           | McClure <i>et al.</i> , 1978                                     |
|   | <i>H. sp.</i>           | „  |
| 134. <i>Dendrocitta vagabunda</i><br>(Latham)   | <i>T. avium bakeri</i>  | Nandi <i>et al.</i> (In press)                                   |
|   | <i>H. danilewskii</i>   | Nandi <i>et al.</i> (In press)                                   |
|   | <i>H. sp.</i>           | McClure <i>et al.</i> , 1978                                     |
|   | <i>P. circumflexum</i>  | Nandi <i>et al.</i> (In press)                                   |
|   | <i>P. sp.</i>           | McClure <i>et al.</i> , 1978 ;<br>Nandi <i>et al.</i> (In press) |
|   | <i>Mf.</i>              | Nandi <i>et al.</i> (In press)                                   |
|   | U.P.                    | McClure <i>et al.</i> , 1978                                     |
| 135. <i>Dendrocitta vagabunda</i><br><i>parvula</i> Whistler and<br>Kinnear<br>(= <i>D. r. rufa</i> ) | <i>Mf. dendrocittae</i> | de Mello, 1937b  |
| 136. <i>Dendrocitta v. vaga-</i><br><i>bunda</i> (Latham)<br>(= <i>D. r. vagabunda</i> )              | <i>Mf. dendrocittae</i> | de Mello, 1937b  |
| 137. <i>Garrulus lanceolatus</i><br>Vigors  | <i>T. garruli</i>       | Subramanian and Singh, 1962a                                     |
|   | <i>T. sp.</i>           | Subramanian and Singh, 1962b                                     |
|   | <i>H. sp.</i>           | Nandi and Mandal, 1978 ;   |
|   | <i>L. sp.</i>           | Subramanian and Singh, 1962b                                     |
|   | <i>Mf.</i>              | „  |
| 138. <i>Garrulus glandarius</i><br><i>bispecularis</i> Vigors   | <i>H. sp.</i>           | Subramanian and Singh, 1962b                                     |
|   | <i>L. sp.</i>           | „  |
|   | <i>Mf.</i>              | „  |

27. Family : PARIDAE, Tits

139. <i>Parus major</i> Linnaeus	L. sp.	McClure <i>et al.</i> , 1978
140. <i>Parus monticolus</i>	L. sp.	McClure <i>et al.</i> , 1978
	Mf.	"
141. <i>Parus xanthogenys</i>	L. sp.	McClure <i>et al.</i> , 1978
(= <i>Machlophus xantho-</i>	<i>H. machlophi</i>	de Mello, 1935c
<i>genys</i> )	<i>P. sp.</i>	McClure <i>et al.</i> , 1978
	Mf.	"

28. Family : SITTIDAE, Nuthatches

142. <i>Sitta castanea</i> Lesson	H. sp.	McClure <i>et al.</i> , 1978
143. <i>Sitta frontalis</i> Swainson	H. sp.	McClure <i>et al.</i> , 1978

29. Family : TIMALIIDAE, Babblers

144. <i>Actinodura nipalensis</i>	L. sp.	McClure <i>et al.</i> , 1978
(Hodgson)		
	H. sp.	"
145. <i>Alcippe poioicephala</i>	H. sp.	McClure <i>et al.</i> , 1978
(Jerdon)		
146. <i>Chrysomma sinense</i>	L. sp.	McClure <i>et al.</i> , 1978
(Gmelin)	<i>P. sp.</i>	"
147. <i>Dumetia hyperythra</i>	L. sp.	McClure <i>et al.</i> , 1978
(Franklin)		
148. <i>Garrulax lineatus</i>	Mf.	Nandi and Mandal, 1978
(Vigors)		
149. <i>Garrulax variegatus</i>	L. sp.	McClure <i>et al.</i> , 1978
(Vigors)		
	Mf.	"
150. <i>Heterophasia capistrata</i>	L. sp.	McClure <i>et al.</i> , 1978
(Vigors)		Subramanian and Singh, 1962b
	H. sp.	Subramanian and Singh, 1962b;
		McClure <i>et al.</i> , 1978
151. <i>Turdoides caudata</i>	L. sp.	McClure <i>et al.</i> , 1978
(Dumont)		
	H. sp.	"
	Mf.	"
152. <i>Turdoides malcolmi</i>	L. sp.	McClure <i>et al.</i> , 1978
(Sykes)		
	H. sp.	"
	Mf.	"
153. <i>Turdoides striatus</i>	T. sp.	McClure <i>et al.</i> , 1978
(Dumont)		
	L. sp.	"
	H. sp.	McClure <i>et al.</i> , 1978 ;
		Nandi and Mandal, 1977a
	<i>H. oryzivora</i>	Nandi <i>et al.</i> (In press)
	Mf.	McClure <i>et al.</i> , 1978

154. *Turdoides striatus* *T. turdoides* de Mello, 1935d  
*sommervillei* (Sykes)  
 (= *Turdoides som-*  
*villei*)
30. Family : PYCNONOTIDAE, Bulbuls
155. *Hypsipetes madagasca-* *T. sp.* McClure *et al.*, 1978  
*riensis*  
*L. sp.* ”  
*H. sp.* ”  
*P. sp.* ”
156. *Pycnonotus cafer* *T. sp.* McClure *et al.*, 1978  
 (= *Molpastes cafer*)  
*L. sp.* ”  
*H. sp.* ”  
*P. vaughani* ”  
*P. sp.* ”  
*Mf. molpastis* de Mello, 1937b  
*Mf.* Nandi *et al.*, (In press)
157. *Pycnonotus cafer cafer* *L. molpastis* de Mello, 1937a  
 (Linnaeus)  
 (= *Molpastes c. cafer*)
158. *Pycnonotus cafer* *P. relictum* (Expt.) Grewal, 1964b  
*intermedias*
159. *Pycnonotus cafer stand-* *T. sp.* Grewal, 1965  
*fordi* Deignan  
*H. sp.* ”  
 (= *Molpastes burmani-* *Mf. jeeti* ”  
*cus*)  
*Mf. buckleyi* ”
160. *Pycnogotus jocosus* *T. brimonti bakeri* Chatterjee and Ray, 1971  
 (Linnaeus) (= *T. avium bakeri*)  
*L. sp.* McClure *et al.*, 1978  
 (= *Elathea jocos*  
 = *Otocompsa jocos*) *H. otocompsae* de Mello, 1935c  
*H. sp.* McClure *et al.*, 1978  
*P. sp.* ”  
*Mf.* ”
161. *Pycnonotus jocosus* *H. sanguinis* Chakravarty and Kar, 1945b  
*emeria* (Linnaeus)  
 (= *Elathea jocos* *emeria*)
162. *Pycnonotus leucogenys* *T. sp.* McClure *et al.*, 1978  
 (Gray)  
*H. sp.* ”  
*P. sp.* ”  
*U. P.* ”
163. *Pycnonotus leucogenys* *L. dubreuilii* Nandi and Mandal, 1978  
*humit* (Oates) ”  
*L. majoris*
164. *Pycnonotus luteolus* *H. sp.* McClure *et al.*, 1978  
 (Lesson)  
*Mf. pycnonoti* de Mello, 1937b

31. Family : AEGITHINIDAE, Leafbirds

165. <i>Aegithina nigrolutea</i> (Marshall)	L. sp.	McClure <i>et al.</i> , 1978
166. <i>Aegithina tiphia</i> (Linnaeus)	L. sp.	McClure <i>et al.</i> , 1978
	<i>H. aegithinae</i>	de Mello, 1935c
	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	U. P.	”
	<i>Mf. aegithinae</i>	de Mello, 1937b
167. <i>Chloropsis aurifrons</i> (Temminck)	U. P.	McClure <i>et al.</i> , 1978
	<i>P. relictum</i> (= <i>P. chloropsidis</i> )	de Mello, 1935a
168. <i>Chloropsis cochinchinensis jerdoni</i> (Blyth) (= <i>Chloropsis jerdoni</i> )	<i>L. enriquesi</i> <i>Mf. jerdoni</i>	de Mello, 1937a de Mello, 1937b
169. <i>Chloropsis aurifrons frontalis</i> (Pelzeln) (= <i>Chloropsis aurifrons davidsoni</i> )	<i>L. chloropsidis</i> <i>Mf. chloropsidis</i> <i>P. relictum</i> (= <i>P. chloropsidis</i> )	de Mello, 1935a de Mello, 1935a de Mello, 1935a

32. Family : TURDIDAE, Thrushes

170. <i>Copsychus malabaricus</i> (Scopoli)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
171. <i>Copsychus saularis</i> (Linnaeus) (= <i>Copsychus s. saularis</i> )	<i>T. moruni</i> <i>H. fringillae</i> (= <i>H. moruony in partim</i> ) <i>H. oryzivorae</i> (= <i>H. moruony in partim</i> ) <i>H. fallisi</i> <i>H. danilewskyi</i> (?) <i>H. sp.</i> <i>P. sp.</i> Mf. <i>Mf. copsiyci</i> <i>Mf. moruoni</i>	de Mello, 1937a de Mello and Braz de Sa, 1916 ; de Mello <i>et al.</i> , 1917 ; Nandi and Mandal, 1977a ; Nandi <i>et al.</i> (In press) As above Nandi and Mandal, 1977a Chakravarty and Kar, 1945a McClure <i>et al.</i> , 1978 ” ” de Mello, 1937 ”
172. <i>Erithacus brunneus</i> (Hodgson)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
173. <i>Erithacus svecicus</i> (Linnaeus)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
174. <i>Monticola cinclorhynchus</i> (Vigors)	<i>L. sp.</i> <i>H. sp.</i> Mf.	McClure <i>et al.</i> , 1978 ” ”

175. <i>Monticola solitarius</i> <i>pandoo</i> (Sykes)	<i>Mf. monticolae</i>	de Mello, 1937b
176. <i>Myiophonus caeruleus</i> (Scopoli)	<i>H. oryzivorae</i>	Nandi and Mandal, 1978
177. <i>Phoenicurus caeruleocephalus</i> (Vigors)	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
178. <i>Phoenicurus ochrurus</i> (Gmelin)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
179. <i>Saxicola caprata</i> (Linnaeus)	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
	<i>H. sp.</i>	Subramanian and Singh, 1962b; McClure <i>et al.</i> , 1978
	<i>P. sp.</i>	McClure <i>et al.</i> , 1978
180. <i>Saxicola torquata</i> (Linnaeus)	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
181. <i>Saxicoloides fulicata</i> (Linnaeus)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>P. sp.</i>	”
	<i>Mf. saxicoloides</i>	de Mello, 1937b
	Mf.	Nandi <i>et al</i> (In press) ; McClure <i>et al.</i> , 1978
	U. P.	McClure <i>et al.</i> , 1978
182. <i>Tarsiger cyanurus</i> (Pallas)	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
183. <i>Turdus merula</i> Linnaeus	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
	<i>H. sp.</i>	”
	Mf.	”
184. <i>Turdus merula nigropileus</i> (Lafresnaye)	<i>Mf. merulae</i>	de Mello, 1937b
185. <i>Turdus ruficollis</i> Pallas	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
	<i>H. sp.</i>	”
186. <i>Turdus unicolor</i> Tickell	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
	<i>H. sp.</i>	”
	U. P.	”
187. <i>Zoothera citrina</i> (Latham)	<i>T. sp.</i>	McClure <i>et al.</i> , 1978
(= <i>Geocichla citrina</i> )	<i>L. sp.</i>	”
	<i>H. sp.</i>	”
	<i>Mf. geocichlae</i>	de Mello, 1937b
	<i>Mf. herculani</i>	”
	<i>Mf. prateri</i>	”
	Mf.	McClure <i>et al.</i> , 1978
188. <i>Zoothera citrina cyano-</i> <i>tus</i> (Jardine & Selby)	<i>Mf. geocichlae</i>	de Mello, 1937b
(= <i>Geocichla c. cyanotis</i> )		

## 33. Family : SYLVIIDAE, Old World Warblers

189. <i>Acrocephalus agricola</i> Jerdon	<i>L. sp.</i>	McClure <i>et al.</i> , 1978
	<i>H. sp.</i>	”

190. <i>Acrocephalus arundinaceus</i> Linnaeus	H. sp.	McClure <i>et al.</i> , 1978
191. <i>Acrocephalus dumetorum</i> Blyth	T. <i>avium</i>	Nandi <i>et al.</i> (In press)
	L. sp.	McClure <i>et al.</i> , 1978
	H. sp.	McClure <i>et al.</i> , 1978 ; Nandi <i>et al.</i> , (In press)
192. <i>Acrocephalus stentoreus</i> (Hemprich and Ehrenberg)	L. sp.	McClure <i>et al.</i> , 1978
	H. sp.	„
193. <i>Cisticola juncidis</i> (Rafinesque)	P. sp.	Qadri, 1969
194. <i>Hippolais caligata</i>	H. sp.	McClure <i>et al.</i> , 1978
	P. sp.	„
195. <i>Orthotomus sutorius</i> (Pennant)	H. <i>wenyoni</i>	de Mello, <i>et al.</i> , 1917
	H. sp.	McClure <i>et al.</i> , 1978
196. <i>Phragamaticola aedon</i> (Pallas)	H. sp.	McClure <i>et al.</i> , 1978
197. <i>Phylloscopus collybita</i> (Vieillot)	H. sp.	McClure <i>et al.</i> , 1978
198. <i>Phylloscopus f. fuscatus</i> (Blyth)	Mf.	Nandi <i>et al.</i> , (In press)
199. <i>Phylloscopus inornatus</i> (Blyth)	H. sp.	McClure <i>et al.</i> , 1978
200. <i>Phylloscopus occipitalis</i> (Blyth)	H. sp.	McClure <i>et al.</i> , 1978
201. <i>Phylloscopus trochiloides</i> (Sundevall)	H. sp.	McClure <i>et al.</i> , 1978
202. <i>Prinia buchanani</i> Blyth	U. P.	McClure <i>et al.</i> , 1978
203. <i>Printa gracilis</i> (Lichtenstein)	H. sp.	McClure <i>et al.</i> , 1978
204. <i>Printa hodgsoni</i> Blyth	H. sp.	McClure <i>et al.</i> , 1978
205. <i>Prinia socialis</i> Sykes	T. sp.	McClure <i>et al.</i> , 1978
	H. sp.	„
	P. sp.	„
206. <i>Prinia subflava</i> (Gmelin)	H. sp.	McClure <i>et al.</i> , 1978
	P. sp.	„
207. <i>Prinia sylvatica</i> Jerdon	H. sp.	McClure <i>et al.</i> , 1978
	Mf.	„
208. <i>Sylvia communis</i> Latham	H. sp.	McClure <i>et al.</i> , 1978
209. <i>Sylvia curruca</i> (Linnaeus)	H. sp.	McClure <i>et al.</i> , 1978
	P. sp.	„
210. <i>Sylvia hortensis</i> (Gmelin)	H. sp.	McClure <i>et al.</i> , 1978
34. Family : MUSCICAPIDAE, Old World Flycatchers		
211. <i>Hypothymis azurea</i> (Boddaert)	H. sp.	McClure <i>et al.</i> , 1978

212. <i>Muscicapa latirostris</i> Raffles	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
213. <i>Muscicapa muttui</i> (Layard)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
214. <i>Muscicapa parva</i> Bechstein	<i>H. sp.</i>	Nandi <i>et al.</i> (In press) ; McClure <i>et al.</i> , 1978
215. <i>Muscicapa sibirica</i> Gmelin	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
216. <i>Muscicapa striata</i> (Pallas)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
217. <i>Muscicapa sundara</i> (Hodgson)	<i>H. sp.</i>	Subramanian and Singh, 1962b
218. <i>Muscicapa t. thalassina</i>	<i>P. relictum</i>	Nandi and Mandal, 1978
219. <i>Muscicapa tickelliae</i> (Blyth)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>L. sp.</i>	„
	Mf.	„
220. <i>Rhipidura albogularis</i> (Lesson)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>P. sp.</i>	„
221. <i>Terpsiphone paradisi</i> Linnaeus	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>P. sp.</i>	Nandi and Mandal, 1977a
	Mf.	McClure <i>et al.</i> , 1978

### 35. Family : MOTACILLIDAE, Wagtails and Pipits

222. <i>Anthus hodgsoni</i> Richmond	<i>H. sp.</i>	McClure <i>et al.</i> , 1973
223. <i>Anthus novaeseelandiae</i> (Gmeiin)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
224. <i>Anthus navaeseelandiae</i> <i>rufulus</i> Vieillot (= <i>Anthus richardi rufulus</i> <i>Anthus r. rufulus</i> )	<i>H. anthi</i> <i>Mf. anthi</i> <i>Mf. horai</i> <i>Mf. prashadi</i>	de Mello, 1935c Zargar, 1945 de Mello, 1937b „ „
225. <i>Dendronanthus indicus</i> (Gmelin)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
226. <i>Motacilla alba</i> Linnaeus	<i>H. sp.</i> <i>P. relictum</i>	McClure <i>et al.</i> , 1978 „
227. <i>Motacilla cinerea</i> Tunstall	<i>H. sp.</i>	McClure <i>et al.</i> , 1978

### 36. Family : LANIIDAE, Shrikes

228. <i>Lanius cristatus</i> Linnaeus	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>P. sp.</i>	„
229. <i>Lanius excubitor</i> Linnaeus	<i>T. sp.</i>	Choudhury and Misra, 1972
	<i>H. sp.</i>	McClure <i>et al.</i> , 1978

230. <i>Lanius schach</i> Linnaeus	<i>H. lanii</i> <i>H. sp.</i> <i>P. sp.</i> Mf.	Nandi and Mandal, 1977a McClure <i>et al.</i> , 1978 " Nandi <i>et al.</i> (In press) ; McClure <i>et al.</i> , 1978
231. <i>Lanius schach erythro-</i> <i>notus</i> (Vigors)	<i>H. lanii</i>	de Mello, 1937a
232. <i>Lanius schach tricolor</i> (Hodgson) (= <i>Lanius schach</i> <i>collurio</i> )	<i>T. lanii</i> Mf.	Choudhury and Misra, 1976 Choudhuri <i>et al.</i> , 1972
233. <i>Lanius vittatus</i> Valenciennes	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
37. Family : STURNIDAE, Starlings		
234. <i>Acridotheres fuscus</i> (Wagler)	<i>H. Sp.</i>	McClure <i>et al.</i> , 1978
235. <i>Acridotheres tristis</i> (Linnaeus)	<i>H. sp.</i>  <i>P. sp.</i> Mf.	McClure <i>et al.</i> , 1978 " "
236. <i>Acridotheres t. tristis</i> Linnaeus	<i>H. pastoris</i> ( = <i>H. sturni</i> ) <i>P. vaughani</i> <i>Mf. acridotheris</i> Mf.	Nandi, 1976 ; Nandi and Mandal, 1978 Nandi, 1976 de Mello, 1937b Nandi <i>et al.</i> (In press)
237. <i>Gracula religiosa</i> Linnaeus	Mf.	Nandi 1978 ; Nandi <i>et al.</i> (In press)
238. <i>Sturnus contra</i> Linnaeus	<i>H. pastoris</i>  <i>H. sp.</i> <i>P. sp.</i>  Mf.	Nandi <i>et al.</i> (In press)  McClure <i>et al.</i> , 1978 Nandi <i>et al.</i> (In press) ; McClure <i>et al.</i> , 1978 Nandi <i>et al.</i> (In press)
239. <i>Sturnus malabaricus</i> (Gmelin) ( <i>Sturnia malabarica</i> )	<i>H. pastoris</i> ( = <i>H. sturni</i> )  <i>H. sp.</i> <i>P. nucleophilum</i> <i>P. sp.</i> <i>Lankesterella sp.</i> Mf.	de Mello, 1935c ; Nandi, 1978 ; Nandi <i>et al.</i> (In press)  McClure <i>et al.</i> , 1978 Nandi <i>et al.</i> (In press) McClure <i>et al.</i> , 1978 Nandi <i>et al.</i> (In press) McClure <i>et al.</i> , 1978
240. <i>Sturnus pagodarum</i> (Gmelin)	<i>H. pastoris</i> ( = <i>H. sturni</i> )  <i>H. sp.</i> Mf.	Nandi, 1976  McClure <i>et al.</i> , 1978 "
241. <i>Sturnus roseus</i> (Linnaeus) (= <i>Pastor roseus</i> )	<i>H. pastoris</i>  <i>Babesia sp.</i>  <i>H. sp.</i>	de Mello, 1935c " " McClure <i>et al.</i> , 1978

242. *Sturnus vulgaris* H. sp. McClure *et al.*, 1978  
(Linnaeus)

38. Family : NECTARINIDAE, Sunbirds

243. *Arachnothera longirostris* L. sp. McClure *et al.*, 1978  
(Latham)
244. *Nectarinia asiatica* H. sp. McClure *et al.*, 1978  
(Latham) P. sp. ”
245. *Nectarinia lotenia* H. sp. McClure *et al.*, 1978  
(Linnaeus)
246. *Nectarinia minima* H. sp. McClure *et al.*, 1978  
(Sykes)
247. *Nectarinia zeylonica* H. *raymundi* de Mello and Raimundo, 1934  
(Linnaeus) H. sp. McClure *et al.*, 1978  
P. sp. ”

39. Family : DICAEBIDAE, Flowerpeckers

248. *Dicaeum erythrorhynchos* H. sp. McClure *et al.*, 1978  
(Latham)

40. Family : ZOSTEROPIDAE, White-eyes

249. *Zosterops palpebrosa* L. sp. McClure *et al.*, 1978  
(Temminck) H. sp. ”  
P. sp. ”  
Mf. ”  
U.P. ”
250. *Zosterops p. palpebrosa* H. *zosteropi* Chakravarty and Kar, 1945a

41. Family : FRINGILLIDAE, Finches

251. *Carpodacus erythrinus* L. *fringillinarum* Nandi, 1978 ; Nandi and  
(Pallas) Mandal, 1978  
L. sp. McClure *et al.*, 1978  
H. sp. ”  
Mf. Nandi and Mandal, 1978
252. *Carpodacus erythrinus* L. *fringillinarum* Nandi and Mandal, 1978  
*roseatus* (Blyth) Mf. ”
253. *Coccothraustes icteroides* L. sp. McClure *et al.*, 1978  
Vigors
254. *Emberiza cia* L. sp. McClure *et al.*, 1978  
(Linnaeus)
255. *Mycerobas affinis* L. sp. Nandi and Mandal, 1978  
(Blyth) Mf. ”
256. *Melophus lathami* L. sp. McClure *et al.*, 1978  
(Gray)
257. *Pyrrhula aurantiaca* H. sp. ”  
Gould L. sp. McClure *et al.*, 1978

42. Family : PLOCEIDAE, Weavers

258. <i>Lonchura Kelaarti</i>	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
259. <i>Lonchura malabarica</i> (Linnaeus)	<i>T. knowlesi</i>  (= <i>T. avium</i> )	Das Gupta and Siddons, 1941b ; Grewal, 1963 ; Nandi <i>et al.</i> (In press)
(= <i>Aidemosyne mala-</i> <i>barica, Uroloncha</i> <i>malabarica</i> )	<i>T. delhiense</i>	Grewal, 1963
	<i>T. sp.</i>	McClure <i>et al.</i> , 1978
	<i>H. garnhami</i>	Grewal, 1964a ; Nandi <i>et al.</i> (In press)
	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
	<i>P. relictum</i>	Grewal, 1962
260. <i>Lonchura malacca</i> <i>atricapilla</i> (Vieillot)	<i>P. relictum</i> ( <i>P. praecox muniae</i> )	DasGupta and Siddons, 1941a ; Grewal, 1962
(= <i>Munia a.atricapilla</i> )	Mf.	Das Gupta and Siddons, 1941a
261. <i>Lonchura punctulata</i> (Linnaeus)	<i>H. garnhami</i> <i>H. sp.</i>	Nandi <i>et al.</i> (In press) McClure <i>et al.</i> , 1978
262. <i>Lonchura p. punctulata</i> (Linnaeus)	<i>T. sp.</i>  (= <i>T. grewali, nomen nudum</i> )	Choudhury, Sarkar and Roy, 1969
263. <i>Lonchura striata</i> (Linnaeus)	<i>T. urolonchae</i> <i>H. sp.</i>	Pereira, 1941
(= <i>Uroloncha striata</i> )		McClure <i>et al.</i> , 1978
264. <i>Passer domesticus</i> (Linnaeus)	<i>T. sp.</i>  <i>Lankesterella adiei</i> <i>Lankesterella sp.</i>	David and Nair, 1955 ; Grewal <i>et al.</i> , 1957 Adie, 1908 Nandi, 1978 ; Nandi <i>et al.</i> (In press)
	<i>H. passeris</i> <i>H. sp.</i>	Nandi and Mandal, 1977a Singh <i>et al.</i> , 1951 ; McClure <i>et al.</i> , 1978
	<i>P. relictum</i> Mf.	Singh <i>et al.</i> , 1952 Nandi <i>et al.</i> (In press)
265. <i>Passer hispaniolensis</i> (Temminck)	<i>H. sp.</i> Mf.	McClure <i>et al.</i> , 1978 ”
266. <i>Passer rutilans</i> (Temminck)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
267. <i>Petronia xanthocollis</i> Burton	<i>H. gymnorrhidis</i>  <i>H. sp.</i>	de Mello, 1935c McClure <i>et al.</i> , 1978
(= <i>Gymnoris xantho-</i> <i>collis</i> )	Mf.	”
268. <i>Ploceus manyar</i> (Horsfield)	<i>H. sp.</i>	McClure <i>et al.</i> , 1978
269. <i>Ploceus philippinus</i> (Linnaeus)	<i>Lankesterella sp.</i>	Nandi <i>et al.</i> (In press)

<i>H. oryzivorae</i>	Nandi <i>et al.</i> (In press)
<i>H. sp.</i>	McClure <i>et al.</i> , 1978
<i>P. relictum</i> (= <i>P. ploceii</i> )	Chakravarty and Kar, 1945b ; Singh <i>et al.</i> , 1952 ; Nandi <i>et al.</i> (In press)
<i>P. sp.</i>	Nandi <i>et al.</i> (In press) McClure <i>et al.</i> , 1978
Mf.	Nandi <i>et al.</i> , (In press)

### ANNOTATED LIST OF UNINFECTED SPECIES

The list includes species of birds which have been examined for blood parasites but in which no parasites were recorded. In order for the reader to find species quickly they are arranged family-wise alphabetically.

---

Family and species	Total birds examined
--------------------	----------------------

---

#### Family : ANHINGIDAE, Darters

- |                        |   |
|------------------------|---|
| 1. <i>Anhinga rufa</i> | 6 |
|------------------------|---|

#### Family : ARDEIDAE, Herons and Egrets

- |   |    |
|---|----|
| 2. <i>Bubulcus ibis</i> (Linnaeus)  | 10 |
| 3. <i>Bubulcus ibis coromandus</i> (Boddaert)   | 1  |
| 4. <i>Butorides striatus</i> (Linnaeus)   | 2  |
| 5. <i>Egretta alba alba</i> (Linnaeus)*   |    |
| 6. <i>Egretta gularis schistacia</i> (Hemprich & Ehrenberg)*<br>[= <i>Demiegretta asha</i> (Sykes)] |    |
| 7. <i>Egretta i. intermedia</i> (Wagler)  | 1  |

#### Family : THRESKIORNIHIDAE, Ibises, Spoonbills

- |  |    |
|--|----|
| 8. <i>Plegadis falcinellus</i>         | 30 |
| 9. <i>Platalea leucorodia</i>          | 6  |
| 10. <i>Threskiornis melanocephalus</i> | 40 |

#### Family : PHOENICOPTERIDAE, Flamingoes

- |  |   |
|--|---|
| 11. <i>Phoeniconaias minor</i> (Geoffroy)* |   |
| 12. <i>Phoenicopterus roseus</i>           | 7 |

#### Family : ANATIDAE, Ducks, Geese and Swans

- |  |   |
|--|---|
| 13. <i>Anas clypeata</i> (Linnaeus)*<br>[= <i>Spatula clypeata</i> (Linnaeus)] |   |
| 14. <i>Anas c. crecca</i> Linnaeus*<br>(= <i>Nettion c. crecca</i> )           |   |
| 15. <i>Anas poecilorhyncha</i> J. R. Forster                                   | 9 |

#### Family : ACCIPITRIDAE, Hawks

- |  |   |
|--|---|
| 16. <i>Accipiter nisus melaschistos</i> Hume | 1 |
| 17. <i>Elanus caeruleus</i> (Desfontaines)   | 2 |
| 18. <i>Haliastur indus</i> (Boddaert)*       |   |

19. *Milvus migrans* (Boddaert) 2  
 20. *Neophron perenopterus ginginianus* (Latham) 3

Family : FALCONIDAE, Falcons

21. *Falco peregrinus* Linnaeus 6

Family : PHASIANIDAE, Pheasants and Quail

22. *Arborophila atrogularis* (Blyth) 1  
 23. *Coturnix c. coturnix* (Linnaeus) 2  
 24. *Perdicula erythrorhyncha* (Sykes)\*  
 [= *Cryptoplectron erythrorhynchum* (Sykes)]

Family : RALLIDAE, Rails

25. *Amaurornis phoenicurus* (Boddaert) 18  
 26. *Porzana pusilla* (Pallas) 1  
 27. *Rallus striatus* Linnaeus 1

Family : ROSTRATULIDAE, Painted Snipe

28. *Rostratula benghalensis* (Linnaeus) 26

Family : CHARADRIIDAE, Plovers

29. *Charadrius alexandrinus* Linnaeus 30  
 30. *Charadrius a. alexandrinus*\*  
 (= *Leucopotius a. alexandrinus*)  
 31. *Charadrius dubius* Scopoli 57  
 32. *Charadrius dominicus* (Linnaeus) 35  
 33. *Charadrius leschenaulti* Lesson 10  
 34. *Vanellus malabaricus* (Boddaert) 12

Family : SCOLOPACIDAE, Sandpipers

35. *Actitis hypoleucos* Linnaeus 7  
 36. *Calidris minutus* (Leisler)\* 21  
 [= *Erolia m. minuta* (Leisler)]\*  
 37. *Capella gallinago* (Linnaeus) 154  
 38. *Capella megala* Swinhoe 3  
 39. *Capella stenura* (Bonaparte) 23  
 40. *Numenius phaeopus* (Linnaeus) 4  
 41. *Numenius p. phaeopus* (Linnaeus)\*  
 42. *Tringa glareola* Linnaeus\* 145  
 43. *Tringa hypoleucos* Linnaeus 2  
 44. *Tringa nebularia* (Gennerus) 34  
 45. *Tringa ochrophus* Linnaeus 26  
 46. *Tringa stagnatilis* (Bechstein) 34  
 47. *Tringa totanus* (Linnaeus) 46  
 48. *Xenus cinereus* (Guldenstaedt) 14

Family : GLAREOLIDAE, Pratincoles

49. *Glareola pratincola* (Linnaeus) 6

## Family : LARIDAE, Gulls and Terns

- 50.
- Larus genei*
- Breme\*

## Family : COLUMBIDAE, Doves and Pigeons

51. *Columba hodgsonii* Vigors 1  
 52. *Ducula aenea* (Linnaeus) 3  
 53. *Macropygia rufipennis* Blyth 1  
 54. *Streptopelia chinensis suratensis* (Gmelin)\*  
 55. *Streptopelia senegalensis* (Linnaeus) 1  
 56. *Treron phoenicoptera chlorigaster* (Blyth) 6

## Family : PSITTACIDAE, Parrots

57. *Psittacula c. cyanocephala* (Linnaeus) 1  
 58. *Psittacula euptria* (Linnaeus) 7  
 59. *Psittacula krameri* (Scopoli) 13  
 60. *Psittacula krameri borealis* (Neumann) 2  
 61. *Psittacula longicauda* (Boddaert) 1

## Family : CUCULIDAE, Cuckoos

62. *Cacomantis merulinus* Scopoli 25  
 63. *Cacomantis merulinus querulus* Heine 1  
 64. *Clamator coromandus* (Linnaeus) 11  
 65. *Cuculus canorus* Linnaeus 1  
 66. *Eudynamis s. scolopacea* (Linnaeus) 1  
 67. *Rhopodytes t. tristis* (Lesson) 1

## Family : STRIGIDAE, Owls

68. *Asio flammeus* (Linnaeus) 1  
 69. *Athene brama indica* (Franklin) 1  
 70. *Glaucidium cuculoides rufescens* Baker 1  
 71. *Strix aluco nivicola* (Blyth) 1

## Family : CAPRIMULGIDAE, Nightjars

72. *Caprimulgus macrurus* Horsfield 4  
 73. *Caprimulgus macrurus albonotatus* Tickell 1

## Family : APODIDAE, Swifts

- 74.
- Apus affinis*
- (J. E. Gray) 9

## Family : ALCEDINIDAE, Kingfishers

75. *Alcedo atthis* (Linnaeus)\* 26  
 76. *Alcedo atthis bengalensis* Gmelin 2  
 77. *Ceyx erithacus* (Linnaeus) 5  
 78. *Halcyon pileata* (Boddaert) 1  
 79. *Halcyon s. smyrnensis* (Linnaeus) 3  
 80. *Pelargopsis capensis* (Linnaeus) 1

## Family : MEROPIDAE, Bee-eaters

- 81.
- Merops o. orientalis*
- Latham 2

82. *Merops philippinus philippinus* Linnaeus\*  
 (= *Merops superciliosus jacanicus* Horsfield)  
 83. *Merops superciliosus* Linnaeus\*

Family : CORACIIDAE, Rollers

84. *Coracias benghalensis affinis* McClelland 1

Family : BUCEROTIDAE, Hornbills

85. *Anthracoceros m. malabaricus* (Gmelin) 1  
 86. *Buceros bicornis homrai* Hodgson 1  
 87. *Tockus birostris* (Scopoli) 4

Family : CAPITONIDAE, Barbets

88. *Megalaima lineata hodgsoni* (Bonaparte) 1  
 89. *Megalaima haemacephala indica* (Latham) 1  
 [= *Xantholaema haemocephala lutea* (Lesson)]  
 90. *Megalaima rubricapilla malabarica* (Blyth) 1  
 [= *Xantholaema malabarica* (Blyth)]

Family : PICIDAE, Woodpeckers

91. *Chrysocolaptes lucidus guttacrastatus* (Tickell)\*  
 [= *Chrysocolaptes guttacrastatus* (Tickell)]  
 92. *Dendrocopos himalayensis* Jardine & Selby 2  
 93. *Dinopium benghalense* (Linnaeus) 1  
 94. *Picoides himalayensis albescens* (Baker) 2  
 95. *Picoides m. macei* Vieillot 1  
 96. *Picus xanthopygaeus* (J. E. & G. R. Gray) 2

Family : ALAUDIDAE, Larks

97. *Ammomanes phoenicurus* (Franklin) 1  
 98. *Miraфра assamica* Horsfield 5  
 99. *Miraфра erythroptera* Blyth 2

Family : HIRUNDINIDAE, Swallows

100. *Hirundo daurica* Linnaeus 34  
 101. *Hirundo rustica* Linnaeus 11

Family : CAMPEPHAGIDAE, Minivets and Cuckoo-Shrikes

102. *Coracina novaehollandiae* (Gmelin) 3  
 103. *Coracina novaehollandiae macei* (Lesson)\*  
 [(= *Graucalus m. macei* Lesson)]  
 104. *Pericrocotus cinnamomeus vividus* Baker 1  
 105. *Pericrocotus flammeus* (Forster) 14  
 106. *Pericrocotus flameus speciosus* (Latham)\*  
 [= *Pericrocotus speciosus* (Latham)\*]

Family : DICRURIDAE, Drongos

107. *Dicrurus aeneus* Vieillot\* 2  
 (= *Chaptia aenea*)

108.	<i>Dicrurus aeneus aeneus</i> Vieillot*	
	(= <i>Chaptia aenea malayensis</i> )	
109.	<i>Dicrurus hottentottus</i> (Linnaeus)	2
110.	<i>Dicrurus leucophaeus</i> Vieillot	5
111.	<i>Dicrurus leucophaeus longicaudatus</i> Hay	4

Family : GORVIDAE, Crows, Jays

112.	<i>Cissa c. chinensis</i> (Boddaert)	1
113.	<i>Cissa flavirostris cucullata</i> (Gould)	1
114.	<i>Corvus macrorhynchus intermedius</i> Adams	4

Family : TIMALIIDAE, Babblers

115.	<i>Garrulax albogularis</i> (Gould)	2
116.	<i>Garrulax striatus</i> Vigors	1
117.	<i>Macronus gularis</i> (Horsfield)	5
118.	<i>Pellorneum ruficeps</i> Swainson*	52
119.	<i>Pomatorhinus e. erythrogenys</i> Vigors	1
120.	<i>Pomatorhinus schisticeps</i> Hodgson	31
121.	<i>Pteruthis flavicapitis validirostris</i> Koelz	1
122.	<i>Turdoides subrufus</i> (Jerdon)	2

Family : PYCNONOTIDAE, Bulbuls

123.	<i>Pycnonotus cafer bengalensis</i> Blyth	1
	(= <i>Molpastes haemorrhous bengalensis</i> Blyth)	
124.	<i>Pycnonotus striatus</i> (Blyth)	1

Family : AEGITHINIDAE, Leafbirds

125.	<i>Aegithina t. tiphia</i> (Linnaeus)	1
126.	<i>Chloropsis cochinchinensis</i>	1
127.	<i>Irena puella</i> (Latham)*	2

Family : CINCLIDAE, Dippers

128.	<i>Cinclus pallasii</i> Temminck	1
------	----------------------------------	---

Family : TURDIDAE, Thrushes

129.	<i>Erithacus calliope</i> (Pallas)	20
130.	<i>Phoenicurus ochruros rufiventris</i> (Vieillot)	1
131.	<i>Saxicola ferrea</i> Gray	1
132.	<i>Saxicoloides fulicata cambaiensis</i> (Latham)*	
133.	<i>Turdus merula simillimus</i> Jerdon	1

Family : SYLVIIDAE, Old World Warblers

134.	<i>Locustella certhiola</i> (Pallas)	1
135.	<i>Megalurus palustris</i> Horsfield	17
136.	<i>Megalurus palustris taklao</i> (Blyth)	1
137.	<i>Phylloscopus collybita tristis</i> Blyth	6
138.	<i>Phylloscopus fuscatus</i> (Blyth)	4
139.	<i>Phylloscopus subaffinis</i> (Ogilvie-Grant)	1
140.	<i>Phylloscopus tenellipes</i> Swinhoe	4
141.	<i>Prinia flaviventris</i> (Delessert)	8

## Family : MUSCICAPIDAE, Old World Flycatchers

142.	<i>Culicicapa ceylonensis</i> (Swainson)	10
143.	<i>Monarcha azurea</i> (Boddaert)	5
144.	<i>Monarcha azurea styani</i> (Hartlaub)* [= <i>Hypothynis azurea sykesi</i> (Baker)]	
145.	<i>Muscicapa superciliaris</i> (Jerdon)	2
146.	<i>Muscicapa thalassina</i> Swainson	4
147.	<i>Rhipidura albicollis</i> (Vieillot)	4
148.	<i>Terpsiphone p. paradisi</i> Linnaeus* ( = <i>Tchitrea p. paradisi</i> )	

## Family : MOTACILLIDAE, Wagtails and Pipits

149.	<i>Anthus novaeseelandiae richardi</i> Vieillot	6
150.	<i>Anthus trivialis haringtoni</i> Witherby	1
151.	<i>Motacilla flava</i> Linnaeus	9

## Family : ARTAMIDAE, Wood Swallows

152.	<i>Artamus fuscus</i> Vieillot	1
------	--------------------------------	---

## Family : STURNIDAE, Starlings

153.	<i>Acridotheres ginginianus</i> (Latham)	4
154.	<i>Aplonis panayensis</i> (Scopoli)	1
155.	<i>Sturnus c. contra</i> ( = <i>Sturnopastor c. contra</i> )	1

## Family : DICAEDAE, Flowerpeckers

156.	<i>Dicaeum concolor</i> Jerdon* ( = <i>Dicaeum minullum</i> Swinhoe)	
157.	<i>Dicaeum c. cruentatum</i> (Linnaeus)	1

## Family : FRINGILLIDAE, Finches

158.	<i>Carduelis carduelis</i> (Linnaeus)	8
159.	<i>Carpodacus pulcherrimus</i> (Moore)	1
160.	<i>Emberiza cia par</i> Hartert	1
161.	<i>Emberiza fucata</i> Pallas	11
162.	<i>Emberiza melanocephala</i> Scopoli	9
163.	<i>Leucosticte n. nemoricola</i> (Hodgson)	1

## Family : PLOCEIDAE, Weavers

164.	<i>Estrilda amandava</i> (Linnaeus) [= <i>Amandava amandava</i> (Linnaeus)]	1
165.	<i>Lonchura malacca</i> (Linnaeus)	1
166.	<i>Lonchura malaeca malacca</i> (Linnaeus) ( = <i>Munia malacca malacca</i> (Linnaeus)]	3
167.	<i>Lonchura malacca rubroniger</i> (Hodgson) [= <i>Munia artricapilla rubronigra</i> (Hodgson)]	1
168.	<i>Passer montanus</i> Linnaeus	1
169.	<i>Ploceus benghalensis</i> (Linnaeus)	2
170.	<i>Ploceus megarhynchus</i> Hume	3

\* Number of birds examined not cited vide de Mello (1936)

## SUMMARY

1. A catalogue of the species of avian haematozoa occurring in India together with their index of hosts is provided.
2. The catalogue collates 96 species of avian haematozoa as well as the unnamed species and microfilariae.
3. These species were distributed under 7 genera viz. *Trypanosoma* (19 spp.), *Lankesterella* (1 sp.) *Toxoplasma* (2 spp.), *Leucocytozoon* (12 spp.), *Haemoproteus* (51 spp.) and *Plasmodium* (11 spp.).
4. A total of 269 avian species are listed as hosts of one or more blood parasites in addition to 170 species in which none have been found.
5. The literature of the avian haematozoa from India has been cited under 'References' and in Appendix-1.

## ACKNOWLEDGEMENTS

The author is thankful to Dr. B. K. Tikader, Director, Zoological Survey of India, Calcutta, for facilities provided for this work. He is also thankful to Dr. Amalesh Choudhury, Professor, Calcutta University and to Dr. A. K. Mandal, Superintending Zoologist, Z. S. I., Calcutta, for their advice and encouragement. Thanks are also due to fellow colleagues of Kakdwip Field Station, Z. S. I. Kakdwip, Protozoology section and Bird section Z. S. I., Calcutta, for their cooperation and help in the present study and to Shri N. K. Purkait for typing this manuscript. Best thanks are due to Prof. Gordon F. Bennett, International Reference Centre for Avian Haematozoa, Canada, who has been, to the author, an inspiring mentor and who has very kindly written the foreword.

## REFERENCES

- ACTON, H. W AND KNOWLES, R. 1914. Studies on the halteridium parasite of the pigeon, *Haemoproteus columbae* Celli and San Felice. *Indian J. med. Res.*, 1 : 663-690.
- ADIE, H. A. 1975. The sporogony of *Haemoproteus columbae*. *Indian J. med. Res.*, 2 : 671-680.
- ADIE, J. R. 1908. Note on a parasite in the sparrow. *Indian med. Gaz.*, 43 : 176-180.
- ALI, SALIM AND RIPLEY, D. 1968-1974. *Handbook of the Birds of India and Pakistan*. 10 vols. Oxford University press.
- ALCOCK, A. 1914. The *Haemoproteus* of the Indian pigeon. *Nature*, 93 : 584.

- AUSTIN, O. L., Jr. 1961. *Birds of the World*. Golden Press, New York. 316 pp.
- BASU, B. C. 1938. Studies on a malaria infection in a paddy bird. *J. Malar. Inst. India*, 1(3) : 273-284.
- BENNETT, G. F. 1978. Avian Haemoproteidae. 8. The haemoproteids of the bee eater family (Meropidae) *Can. J. Zool.*, 56(8) : 1721-1725.
- BENNETT, G. F. AND NANDI, N. C. 1981. Avian Haemoproteidae. 16. The haemoproteids of the avian family Capitonidae ( the barbets ). *Can. J. Zool.*, 59 : 2064-2071.
- BHATIA, B. L. 1938. *Protozoa : Sporozoa, in Fauna of British India*. Taylor & Francis, London XX + 489 pp.
- BISWAL, G. AND NAIK, B. C. 1958. *Leucocytozoon* infection in Desi fowl in Orissa. *Indian vet. J.* 35(4) : 161-163.
- CHAKRAVARTY, M. AND KAR, A. B. 1945a. Studies on Haemosporidia from Indian birds. Series II. *Proc. Indian Acad. Sci.*, 22 B : 63-69.
- CHAKRAVARTY, M. AND KAR, A. B. 1945b. Studies on Haemosporidia from Indian birds. *J. R. Asiat. Soc. (Bengal)*, 11 : 36-39.
- CHATTERJEE, D. K. AND RAY, H. N. 1971. Some observations on the morphology and developmental stages of *Trypanosoma avium bakeri* ssp. nov. from the red whiskered bulbul (*Otocompsa jocosa*). *Parasitology*, 62 : 331-338.
- CHAUDHURY, R., SARKAR A. C. AND RAY, H. N. 1969. A new *Trypanosoma* from spotted munia, *Lonchura punctulata punctulata* (Linn.) *Proc. 56th Indian Sci Congr.* Part III (Abstract), p. 512.
- CHOUDHURY, A. AND MISRA, K. K. 1972. A new avian trypanosome from the grey shrike in India. *Trans. R. Soc. Trop. Med. Hyg.*, 66 : 517.
- CHOUDHURY, A. AND MISRA, K. K. 1973. Multiple infections of blood parasites in a migratory bird. *J. Protozool.*, 20(4). 514.
- CHOUDHURY, A. AND MISRA, K. K. 1976. A new species of trypanosome (*Trypanosoma lanii*, new species) from a bird, the blackheaded shrike, *Lanius schach tricolor*. *Proc. zool. Soc. Calcutta*, 29(1-2) : 67-72.
- CHOUDHURY, A. MISRA, K. K. AND MAJUMDAR, G. 1972. Microfilariae from the blackheaded shrike. *Trans. Roy. Soc. trop. Med. Hyg.*, 66 : 671-672.
- DASGUPTA, B. AND PAUL, N. 1973. Occurrence of *Plasmodium relictum* in *Tragopan satyra*. *Indian Sci. Congr. Assoc. Proc.*, 60 : 528.
- DASGUPTA, B. AND SIDDONS, L. B. 1941a. On a *Plasmodium* sp. of the Malay chestnut-bellied munia (*Munia articapilla articapilla* (Vieillot) ). *Indian med. Gaz.*, 76(3) : 148-150.
- DASGUPTA, B. AND SIDDONS, L. B. 1941b. On a trypanosome of the white-throated munia, *Uroloncha malabarica* (Linn.) *Indian med. Gaz.*, 76 : 151-152.

- DAVID, A. 1955. Microfilaria (sp) in gray partridge (*Francolinus pondi-*  
*carianus* Bull. Nat. Soc. Ind. Mal. Mosq. Dis., 3 : 69.
- DAVID, A. 1956. Microfilariae in birds. Bull. Nat. Soc. Mal. Mosq. Dis.,  
4 : 92-93.
- DAVID, A. AND NAIR, C. P. 1955. Observations on a natural (cryptic)  
infection of trypanosomes in sparrows (*Passer domesticus* Linnaeus).  
Part 1. Susceptibility of birds and mammals to the trypanosomes.  
*Indian J. Malar.*, 9 : 95-98.
- DONOVAN, C. 1904. Piroplasmosis. A history of the discovery of the  
Donovan bodies in Madras. *Indian med. Gaz.* 34 : 321-327.
- DA FONSECA, L. 1938. Sur deux nouveaux hémoprotozoaires de *Fulica*  
*atra*. *Arq. Esc. Med. Cir. Nova Goa, Ser. A*, 12 : 315-317.
- GHOSH AND DASGUPTA, B. 1978. Observation on a malarial parasite from  
a crow pheasant, *Centropus sinensis* (Stephens). *Proc. National Symp.*  
*on "Host-parasite interactions.* University of Madras (Abstract),  
pp 20-21.
- GHOSH, M. M. AND DASGUPTA, B. 1980. Record of a new malaria para-  
site from the crow-pheasant, *Centropus sinensis* (Stephens). *Proc.*  
*Int. Symp. "Hundred Years of Malaria Research,* Calcutta, p. 37.
- GILL, B. S. AND RAY, H. N. 1955. A *Leucocytozoon* species from an  
Indian Partridge. *Francolinus* sp. *Indian vet. J.* 32 : 355.
- GREINER, E. C., MANDAL A. K AND NANDI, N. C. 1977. *Haemoproteus*  
*bennetti* sp. n. and a review of the haemoproteids from the Picidae  
(woodpeckers). *J. Parasit.*, 63 : 651-656.
- GREWAL, M. S. 1962. Studies on the blood parasites of the white-throated  
munia, *Uroloncha malabarica* Linnaeus, *Plasmodium (relictum)*  
*praecox* Grassi and Feletti 1890. *Indian J. Malar.*, 16 : 99-109.
- GREWAL, M. S. 1963. Studies on the blood parasites of the white-throated  
munia, *Uroloncha malabarica* Linnaeus, (A) *Trypanosoma avium*  
Danilewsky, 1885 (B) *Trypanosoma delhiense* sp. nov. *Indian J.*  
*Malar.*, 17 : 55-64.
- GREWAL, M. S. 1964a. Studies on the blood parasites of the white-throa-  
ted munia, *Lonchura malabarica* (Linnaeus). Status of *Haemopro-*  
*teus wenyoni* Sargent and Sargent, 1948 (Protozoa : Sporozoa).  
*Proc. zool. Soc. Calcutta*, 17 : 21-25.
- GREWAL, M. S. 1964b. Experimental infection of the Punjab red-vented  
bulbul, *Pycnonotus cafer intermedius* Blyth, with *Plasmodium*  
*(relictum) praecox* Grassi and Feletti, 1890 (Protozoa : Sporozoa).  
*Proc. zool Soc. Calcutta*, 17 : 89-93.
- GREWAL, M. S. 1965. On two new microfilariae *Microfilaria jeeti* and  
*Microfilaria buckleyi*, from the nightingale, *Molpastes burmanicus*  
Blanf. and Oates. *Res. Bull. Punjab Univ.*, 16 : 197-207.

- GREWAL, M. S., DAVID, A. AND CHOWDHARY, D. S. 1957. Preliminary report of the further studies on the "so-called" natural cryptic (occult) trypanosome of the house-sparrow, *Passer domesticus* Linnaeus. *Indian J. Malar.*, 11 : 415-418.
- HANNA, W 1903. *Trypanosoma* in birds in India. *Q. J. microsc. Sci.* n. s. 47 : (18) 433-438.
- KNOWLES, R. 1928. *An introduction to Medical Protozoology*. Calcutta.
- LEVINE, N. D., CORLISS, J. O. COX, F. E. G., DEROUX, G., GRAIN, J., HONIGBERG, B. M., LEEDAL, G. F., LOEBLICH, A. R., III, LOM, J., LYNN, D., MERINFELD, E. G., PAGE, F. C., POLJANSKY, G., SPRAGUE, V., VAVRA, J. AND WALLACE, F. G. 1980. A newly revised classification of the Protozoa. *J. Protozool.*, 27(1) : 37-58.
- LINGARD, A. AND JENNINGS, E. 1904. A preliminary note on a piroplasmosis found in man and in some of the lower animals. *Indian med. Gaz.*, 34 : 161-165.
- MALKANI, P. G. 1936. *Haemoproteus rileyi* (sp. nov.) causing a fatal disease in Indian peacock. *Indian J. vet. Sci. Anim. Husband.*, 6 : 155-157.
- MAQSOOD, M. 1943. *Haemoproteus handae* (sp. nov.) occurring in Indian parakeet (*Psittacula cyanocephala*). *Indian vet. J.*, 20(3) : 109-111.
- MCCLURE, H. E., POONSWAD, P., GREINER, E. C. AND LAIRD, M. 1978. *Haematozoa in the birds of eastern and southern Asia*. Memorial Univ. of Newfoundland Press, St. John's, Newfoundland, Canada, pp. X+296.
- DE MELLO, I. F. 1915. Preliminary note on a new haemogregarine found in the pigeon's blood. *Indian J. med. Res.*, 3 : 92-94.
- DE MELLO, I. F. 1935a. A contribution to the study of the blood parasites of some Indian birds. *Proc. Indian Acad. Sci.*, 1 (7) : 349-358.
- DE MELLO, I. F. 1935b. On a toxoplasmid of *Fulica atra* L. with special reference to a probable sexuality of agametes. *Proc. Indian Acad. Sci.*, 1 (B) : 735-709.
- DE MELLO, I. F. 1935c. New haemoproteids of some Indian birds. *Proc. Indian Acad. Sci.*, 2 Sect. B : 469-475.
- DE MELLO, I. F. 1935d. New trypanosomids of some Indian birds. *Proc. Indian Acad. Sci.*, 2 (B) : 500-502.
- DE MELLO, I. F. 1936. Further contributions to the studies of the blood parasites of Indian birds together with a list of the haemoparasites hitherto recorded. *J. R. Asiat. Soc. Bengal*, 2 : 95-122.
- DE MELLO, I. F. 1937a. On a haemoprotozoa of Indian Birds. *C. R. 12th Congr. Int. Zool.* (Lisbon), 2 : 1391-1445.
- DE MELLO, I. F. 1937b. On blood microfilaria of Indian birds. *C. R. 12th Congr. Int. Zool.* (Lisobon) 3 : 1533-1550.

- DE MELLO, I. F. AND AFONSO, E. 1935. Blood parasites of *Coracias b. benghalensis* with special remarks on its two types of *Leucocytozoon*. *Proc. Indian Acad. Sci.*, 2 (B) : 67-73.
- DE MELLO, I. F. AND BRAZ DE SA, L. J. 1916. A contribution to the study of haemoprotezoa in Portuguese India. *Indian J. med. Res.* 3 : 731-737.
- DE MELLO, I. F., BRAZ DE SA, L. J., DE SOUSA, L., DIAS, A. AND NORONHA, R. 1917. Hematozoaires et pseudo-hematozoaires de l'Inde Portugaise. *An. Fac. Cienc. Porto.*, 3 : 181-200.
- DE MELLO, I. F. AND DA FONSECA, L. 1937. Further notes on the haemoparasitology of the Indian birds. *Proc. Indian Acad. Sci.*, 6 : 213-219.
- DE MELLO, I. F. AND RAIMUNDO, M. 1934. Morphology and schizogonic cycle of *Haemoproteus raymundi*, n. sp., parasite of *Leptocoma zeylanica* (Linn.). *Proc. Indian Acad. Sci.*, Sect. B, 1 (B) : 97-99.
- NANDI, N. C. 1976. Avian haematozoa from upper stretches of Godavari river basin, Nasik and Ahmednagar districts, Maharashtra. *Indian J. Anim. Hlth.*, 15 : 137-138.
- NANDI, N. C. 1978. *Blood parasites of Indian avifauna*. Ph. D. Thesis, Calcutta University, Calcutta.
- NANDI, N. C. AND MANDAL, A. K. 1976. The occurrence of *Leucocytozoon sabrazesi* Mathis and Leger, 1910 (Leucocytozoidae : Sporozoa) in a domestic fowl from Drajeeling, West Bengal. *Symposium on Modern Trends in Zoological Research in India* (Abstracts), pp. 58-60.
- NANDI, N. C. AND MANDAL, A. K. 1977a. Studies on some avian haematozoa from Orissa, India. *Indian J. Anim. Sci.*, 47 : 558-561.
- NANDI, N. C. AND MANDAL, A. K. 1977b. Studies on some avian microfilariae from Jammu and Kashmir. *All India Symposium on Helminthology*, Srinagar (Abstract), pp. 13-14.
- NANDI, N. C. AND MANDAL, A. K. 1977c. The occurrence of *Leucocytozoon sobrazesi* Mathis and Leger, 1910 (Leucocytozoidae : Sporozoa) in a domestic fowl from Darjeeling, West Bengal. *Proc. zool. Soc. Calcutta*, 30 : 67-71
- NANDI, N. C. AND MANDAL, A. K. 1978. Studies on some avian haematozoa from Jammu and Kashmir. *Bull. zool. Surv. India*, 1 (2) : 103-106.
- NANDI, N. C. AND MANDAL, A. K. 1980. *Haemoproteus megapodius* sp. nov. from the South Nicobar Megapode, *Megapodius freycient abbotti* Oberholser (Megapodiidae : Galliformes) *Rec. zool. Surv. India*, 77 : 51-54.
- NANDI, N. C., AND CHOUDHURY, A. (In press.) Blood parasites of some birds from West Bengal, India. *Bull. zool. Surv. India*.

- NARANG, J. R. AND BHATNAGAR, P. K. 1969. Studies on *Haemoproteus columbae* in pigeons (*Columba livia domestica*) at Hissar. *Punjab vet.*, : 8(1) : 10-11.
- PANDE, P. G., SEKARIAH, P. C. AND SHUKLA, R. R. 1961. *Toxoplasma* from the woodpecker ; a new natural host. *Trans. R. Soc. trop. Med. Hyg.*, 55 : 277-283.
- PANDIT, G. C., MENON K. P. AND IYER, P. V S. 1929. A note on *Chandrella bosei* York and Maplestone, 1926. *Indian. J. med. Res.*, 16 : 959-962.
- PATTANAYAK, S., RAGHAVAN, N. G. S. AND KRISHNASWAMI, A. K. 1956. Microfilariae in domestic fowls. *Indian J. malar.*, 10 : 261-263.
- PATTANAYAK, S., 1955. Sheathed microfilariae. *Bull. Nat. Soc. Ind. Mal. Mosq. Dis.*, 3 : 191.
- PEREIRA, J. 1941. On a trypanosome found in the blood of *Uroloncha striata* L. *Proc. Indian Acad. Sci. (Sect. B)*, 13 ; 33-34.
- PITTALUGA, G. 1905. Sobre los caracteres morfologicos y la classification de los "Trypanosomas", *Revista de la Real Academia de Ciencias exactus, fisicas y naturales de Madrid*, 2 : 338-379.
- PLIMMER, H. G. 1912. On the blood parasites found in animals in the Zoological Gardens during the four years 1908-1911. *Proc. zool. Soc. Lond.* pp. 405-419.
- PLIMMER, H. G. 1913. Report on the deaths which occurred in the Zoological Gardens during 1912. together with the blood parasites found during the year. *Proc. zool. Soc. Lond.*, pp. 141-149.
- PLIMMER, H. G. 1914. Report on the deaths which occurred in the Zoological Gardens during 8913, together with a list of the blood-parasites found during the year. *Proc. zool. Soc. Lond.*, pp. 181-190.
- PLIMMER, H. G. 1915. Report on the deaths which occurred in the Zoological Gardens during 1914, together with a list of the blood parasites found during the year. *Proc. zool. Soc. Lond.*, pp. 123-130.
- PLIMMER, H. G. 1916a. Notes on the genus *Toxoplasma* with a description of three new species. *Proc. R. Soc. London*, 89 (B) : 291-296.
- PLIMMER, H. G. 1916b. Report on the deaths which occurred in the Zoological Gardens during 1915, together with a list of the blood-parasites found during the year. *Proc. zool. Soc. Lond.*, pp. 77-86.
- QADRI, S. S. 1962. Some new parasitic protozoa found in the gills, blood and faeces of freshwater fish, birds and mammals of India. *Trans. R. Soc. trop. Med. Hyg.*, 56 (1) : 2
- RAMANUJACHARI, G. AND ALWAR, V S. 1953. A case of *Leucocytozoon* infection in a Desi fowl in Madras. *Indian vet. J.*, 30 : 93-96.
- RAMASWAMI, G. R. 1955. *Leucocytozoon* infection in a fowl in Madhya Pradesh. *Indian vet. J.*, 32(1) : 48-49.

- RAO, S. B. V., DAS J. AND RAMNANI, D. R. 1951. Fowl malaria. *Indian vet. J.*, **28** : 99-101.
- RAY, A. P. AND BHATNAGAR, V N. 1953. Avian *Plasmodium* in Indian birds. 1. *Indian J. Malar.*, **7**(2) : 121-124.
- RAY, H. AND DASGUPTA, M. 1936. On a microfilaria from the blood of *Columba intermedia*. *Proc. Indian. Sci. Cong.* (Indore), **23** : 347.
- RAY, A. P. MENON, M. K. BHATNAGAR, V N., NARAYANDAS, M. G. AND CHANDRASEKHAR, G. R. 1953. Avian *Plasmodium* in Indian birds (*P. polare*). Part II. *Indian J. Malar.*, **7** : 249-252.
- RIPLEY, S. D. 1961. *A synopsis of the birds of India and Pakistan together with those of Nepal. Sikkim. Bhutan and Ceylon.* Bombay Natural History Society, pp. xxxvi+702.
- SARKAR, A. C. AND RAY, H. N. 1969. A new malarial parasite, *Plasmodium* (*Garnhamella*) *coturnixae* n. subgen., n. sp. from black-breasted quail, *coturnix coromandelica* (Aves : Galliformes). *3rd. Int. Congr. Protozool.* (Leningrad) pp. 353-354.
- SARKAR, A. C. AND RAY, H. N. 1972. A malaria parasite (*Plasmodium* (*Garnhamella*) *coturnixae*) of the Grey Quail *Coturnix coromondelica* (Gmelin). Aves : Galliformes. *Ceylon J. med. Sci.*, **21** : 85-91.
- SCOTT, H. H. 1926. Report on the deaths occurring in the society's gardens during the year 1925. *Proc. zool. Soc. Lond.*, pp. 231-244.
- SCOTT, H. H. 1927. Report on the deaths occurring in the Society's gardens during the year 1926. *Proc. zool. Soc. Lond.*, pp. 173-198.
- SEN, A. B., CHATTERJEE, R. K. AND BHATTACHARYA, B. K. 1965. Studies on filariasis in the Indian jungle crow, *Corvus macrorhynchos* Wagler. *Ann. trop. Med. Parasit.*, **59** : 346-354.
- SHORTT, H. E. MENON, K. P. AND IYER, P. V S., 1941. The natural host of *Plasmodium gallinaceum* (Brumpt, 1935). *J. malar. Inst. India*, **4** : 175-178.
- SIDDONS, L. B. 1979. Notes on *Akiba* (*Leucocytozoon*) *caulleryi* Mathis and Leger, 1909, in the domestic fowl in India. *Proc. 2nd. Nat. Congr. Parasit.*, Varanasi, pp. 55-56.
- SINGH, D. 1956. Microfilariae in black partridge (*Francolinus vulgaris*) *Bull, Nat. Soc. Ind. Mal. Mosq. Dis.*, **4** : 93-94.
- SINGH, D. 1958. Filarial infection in domestic pigeons (*Columba intermedia*). *Bull Nat. Soc. Ind. Mal. Mosq. Dis.* **6** : 123.
- SINGH, J. , BASU, P. C. AND DAVID, A. 1956. A natural trypanosome (sp.) infection in Indian quail (*Coturnix communis*), study of the morphology in different avian hosts. *Indian J. Malar.* **10** : 167-173.
- SINGH, J. KRISHNAN, K. S. AND DAVID. A. 1952. Natural infection of *P. relictum* in weaver bird, the baya (*Ploceus philippinus*). *Indian J. Malar.*, **6** : 471-473.

- SINGH, J., NAIR, C. P. AND DAVID, A. 1951. Five years' observation on the incidence of blood protozoa in house sparrows (*Passer domesticus* Linnaeus) and in pigeons (*Columba livia* Gmelin) in Delhi. *Indian J. Malar.*, 5 : 229-233.
- SINGH, J., NAIR, C. P. AND DAVID, A. 1956. A natural trypanosome (sp.) infection in wild grey partridges (*Francolinus pondicarianus*). *Bull. Nat. Soc. Ind. Mal. Mosq. Dis.*, 4 : 129-130.
- SINGH, N. 1959. Natural trypanosoma infection in common green pigeon, *Crocopus phoenicopterus* Latham. *Bull. Nat. Soc. Ind. Mal. Mosq. Dis.*, 7 : 103-104.
- SINHA, C. K. AND SINHA, S. 1980. Malarial parasite in east Himalayan Bersa Sparrow. *Accipiter virgatus affinis* (Hodgson). *Proc. Int. Symp. "Hundred years of malaria research"* Calcutta, p. 37.
- STEPHANS, J. W. W. AND CHRISTOPHERS, S. R. 1908. *The practical study of malaria and other blood parasites*. The University Press of Liverpool, London, by Williams & Norgate, 414 pp. 3rd. ed. Liverpool.
- SUBRAMANIAN, G. AND SINGH, K. S. 1962a. A new species of trypanosoma (*T. garruli* n. sp.) from the black-throated jay, *Garrulus lanceolatus* Vigors. *Indian J. Microbiol.*, 2 : 135-38.
- SUBRAMANIAN, G. AND SINGH, K. S. 1962b. Incidence of blood parasites in birds of Kumaun region. *Indian J. Microbiol.*, 2 (4) : 161-164.
- VALLES, C. T. 1938. Further statements on the blood parasites of the Indian birds. *Arg. Esc. Med. Cir. Nova Goa*. (Ser. A). 12 : 309-314.
- WENYON, C. M. 1926. *Protozoology*, 2 vols. 1563, pp. Balliere, Tindall & Cox. London.
- ZARGAR, S. L. 1945. On two new haemoproteids of indian birds. *Proc. Indian Acad. Sci.* (Sect. B), 21 (2) : 124-127.

## APPENDIX 1

- ACTON, H. W. AND CHOPRA, R. N. 1927. The action of quinine on the malarial parasites. Far Eastern Association of Tropical Medicine. *Trans. 7th Congr.* (Calcutta), 2 : 814-817.
- ADIE, J. R. 1907. A plea for scraps. *Indian med. Gaz.*, 42 : 250-256.
- ALWAR, V. S. AND RAMANUJACHARI, G. 1952. Cultural experiments with *Trypanosoma evansi* in chick embryo - a preliminary report. *Indian vet. J.* 29 : 113.
- ALWAR, V. S. AND RAMANUJACHARI, G. 1953. Observations on the behaviour and transmissibility of *Trypanosoma evansi* in infected hatched-out chicks. *Indian vet. J.*, 29 : 383-387.
- ALWAR, V. S. AND RAMANUJACHARI, G. 1955. Transmission of *Taypanosoma evansi* Steel, 1885 from mammals to fowls. *Curr. Sci.*, 24 : 87.

- BAKER, J. R. 1976. Biology of the trypanosomes of birds. *In* Biology of the Kinetoplastida. Academic Press, London. 1 : 131-174.
- BAKER, J. R., BENNETT, G. F., CLARK, G. W. AND LAIRD, M. 1972. Avian blood coccidians. *Adv Parasitol.*, 10 : 1-30.
- BAMI, H. L. AND GUHA, P. C. 1948. Studies in Antimalarials N<sup>1</sup>-aryl-N<sup>6</sup>-alkyl-biguanides. *Curr. Sci. (Bangalore)*, 17 : 272.
- BASU, B.C. 1939. Studies on a malaria infection in a paddy bird. *J. Malar. Inst. India*, 1 : 273-284.
- BASU, P. C., DHATT, M. S., PRAKASH, S., BAMI, H. L. AND SINGH, H. 1962. Screening of antimalarials against *P. gallinaceum* in chicks. Part VII. Some derivatives of sulphaquinazalone, 4-aminoquinoline and 1, 2-dihydro-s-triazines. *J. scient. Ind. Res.*, (New Delhi), 21C : 245-249.
- BASU, P. C., NAIR, C. P. AND DAVID, A. 1955. A natural trypanosome (sp.) infection in Indian quail (*Coturnix communis*). *Bull. Nat. Soc. Ind. Mal. Mosq. Dis.*, 3 : 190-191.
- BASU, P. C., SINGH, H. AND SINGH, N. N. 1962. Studies on the toxicity and the action of PAM-780 in avian and simian malarial. *Indian J. Malar.*, 16 : 187-191.
- BASU, P. C., SINGH, N. N. AND SINGH, N. 1964. Potentiation of activity of diaphenylsulfone pyrimethamine against *Plasmodium gallinaceum* and *Plasmodium cynomolgi bastianelli*. *Bull W. H. O.*, 31 : 699-705.
- BASU, T. 1972. Immunological approach to the detection of the cause of host specificity. *Indian Sci. Congr. Assoc. Proc.*, 59 (Part 3) : 503.
- BASU, T. 1973. Host specificity due to naturally occurring antibody. *Indian Sci. Congr. Assoc. Proc.*, 60 : 529.
- BASU, T. AND MUKHERJEE, K. L. 1977. Host-parasite relationship in bird malaria. *Proc. Ist. Nat. Congr. Parasit.*, pp. 66-67.
- BENNETT, G. F. 1978. Avian Haemoproteidae. 8. The haemoproteids of the bee-eater family (Meropidae). *Can. J. Zool.*, 56 : 1721-1725.
- BENNETT, G. F. 1979. Avian Haemoproteidae. 10. The haemoproteids of the avian family Scolopacidae. *Can. J. Zool.*, 57 (4) : 901-907.
- BENNETT, G. F. 1980. Avian Haemoproteidae. 14. The haemoproteids of the avian family Rallidae. *Can. J. Zool.*, 58(3) : 321-325.
- BENNETT, G. F. AND CAMPBELL, A. G. 1972. Avian Haemoproteidae. 1. Description of *Haemoproteus fallisi* n. sp. and a review of the haemoproteids of the family Turdidae. *Can. J. Zool.*, 50 : 1269-1275.
- BENNETT, G. F. AND CAMPBELL, A. G. 1973. Avian Haemoproteidae. III. Description of *Haemoproteus fusca* sp. n. and re-description of *Haemoproteus halcyonis* De Mello, 1935. Parasites of the kingfisher family Alcedinidae. *J. Parasit.*, 59 : 337-343.

- BENNETT, G. F. AND CAMPBELL, A. G. 1975. Avian Leucocytozoidae. I. Morphometric variation in three species of *Leucocytozoon* and some taxonomic implications. *Can. J. Zool.*, **53** : 800-812.
- BENNETT, G. F., FORRESTER, D. J., GREINER, E. C. AND CAMPBELL, A. G. 1975. Avian Haemoproteidae. 4. Description of *Haemoproteus telfordi* sp. nov., and a review of the haemoproteids of the families Gruidae and Otidae. *Can. J. Zool.*, **53** : 72-81.
- BENNETT, G. F., GREINER, E. C. AND CAMPBELL, A. G. 1975. Avian Haemoproteidae. 5. The haemoproteids of the family Threskiornithidae. *Can. J. Zool.*, **53** : 634-638.
- BERSON, J. P. 1964. Les protozoaires parasites des hematies et du systems histiocytaire des oiseaux. Essai de nomenclature. *Rev. Elevage Med. Vet. Pays Trop.*, **17** : 43-96.
- BOSE, A. N. AND RAKSHIT, P. 1944. The effect of certain substituted quinoline and acridine compounds on the gametocytes of *Haemoproteus columbae*. *Q. J. Pharm. Pharmacol.*, **17** : 319-322.
- BOSE, A. N. AND ROY, N. K. 1952. Progress of *Plasmodium gallinaceum* infection in fowls. *J. scient. Ind. Res.*, (New Delhi), **11B** : 256-258.
- BOX, E. D. 1971. *Lankestrella (Atoxoplasma)*. In: Infectious and Parasitic Diseases of Wild Birds. (ed. Davis, Anderson, Karstad and Trainer). Iowa State Univ. Press, Ames., pp. 309-312.
- CHAKRAVARTY, M. AND KAR, A. B. 1945a. Studies on Haemosporidia from Indian birds. *Proc. 32nd Indian Sci. Cong.*, **3** : 97 (Sec. Zool & Entomol. p. 4).
- CHANDLER, A. C. 1924. New filariae from Indian birds. *Parasitology*, **16** : 398-404.
- CHATTERJEE, D. K. 1972. Cross transmission experiments with *Trypanosoma avium bakeri* 1. *Indian Sci. Congr. Assoc. Proc.*, **59** (Part 3) : 422-423.
- CHATTERJEE, R.K., SEN, A.B. AND BHATTACHARYA, B.K. 1965. *Chandlerella hawkingi* sp. nov., a filarial parasite of the Indian jungle crow, *Corvus macrorhynchos* Wagler. *Ann. trop. Med. Parasit.*, **59** : 434-440.
- CHATTERJEE, R.K., TANDON, A., SAXENA, K.C., GHATAK, S. AND SEN, A.B. 1978. Antigenic studies with *Chandlerella hawkingi*, the filarial parasite of Indian jungle crow, *Corvus macrorhynchos*. *Indian J. med. Res.*, **67** : 34-41.
- COATNEY, G.R. 1936. A check-list and host-index of the genus *Haemoproteus*. *J. Parasit.*, **22** : 88-105.
- COATNEY, G.R. 1937. A catalog and host-index of the genus *Leucocytozoon*. *J. Parasit.*, **23** : 202-212.
- COATNEY, G.R. AND ROUDABUSH, R.L. 1936. A catalogue and host-index of the genus *Plasmodium*. *J. Parasit.*, **22** : 338-353.

- COATNEY, G.R. AND ROUDABUSH, R.L. 1949. A catalog of the species of the genus *Plasmodium* and index of their hosts. In : Boyd's Malariology 1 : 29-53. W.B. Saunders Co., Phila.
- DAS, J. RAO, S.B.V AND RAMNANI, D. R. 1952. Studies on *Plasmodium gallinaceum*. *Indian vet. J.* 29 : 14-26.
- DASGUPTA, B. 1957. Cytochemistry of the basophilic material in the oocysts of *Plasmodium gallinaceum*. *Trans. R. Soc. Trop. Med. Hyg.*, 1 : 927-931
- DASGUPTA, B. 1958a. *Cytochemical studies on certain parasitic Protozoa*. Ph. D. Thesis, Univ. London, 210pp.
- DASGUPTA, B. 1958b. The staining reactions for lipids in the oocysts of *Plasmodium gallinaceum*. *Trans. R. Soc. Trop. Med. Hyg.*, 52 : 296.
- DASGUPTA, B. 1971. A virus disease of the malaria parasite. *Trans. R. Soc. trop. Med. Hyg.*, 65 : 541
- DASGUPTA, B. AND PAL, N. 1976. Malarial oocysts in *Culicoides* sp. in Darjeeling. *Trans. R. Soc. Trop. Med. Hyg.*, 70 : 89-90.
- DASGUPTA, B. AND RAY, H.N. 1956a. *Aedes albopictus* as a vector of *Plasmodium gallinaceum*. *Bull. Calcutta Sch. Trop. Med* , 4 : 63.
- DASGUPTA, B. AND RAY, H.N. 1956b. On the nature of the vacuoles in the oocysts of *Plasmodium gallinaceum*. *Bull. Calcutta Sch. Trop. Med.*, 4 : 63-64.
- DASGUPTA, B., RAY, H.N., SENGUPTA, P.C. AND DUTTA, B.N. 1955. Cytochemical observations on the ookinete of *Plasmodium gallinaceum*. *Bull. Calcutta Sch. Trop. Med.*, 3 : 66.
- DASGUPTA, B. AND SIDDONS, L. B. 1943. Tests with mepacrine hydrochloride, B. P. Against *Plasmodium relictum*. *Indian med. Gaz.*, 78 : 42-43.
- DAVID, A. AND KRISHNAN, K.S. 1953. Some observations on experimental infections in domestic pigeons (*Columba livia* Gmelin) with *Plasmodium relictum*. *Indian J. Malar.*, 7 : 113-115.
- DAVID, A. AND PARKASH, S. 1957. Susceptibility of dog to a natural (cryptic) infection of trypanosomes in sparrows *Passer domesticus*. *Bull. Nat. Soc. Indian Malar. Mosq. borne Dis.*, 5 : 117-119.
- DUTTA, B.N., CHAUDHURI, R.N. AND RAY, H. N. 1956. Effect of starvation on blood induced infection of *Plasmodium gallinaceum*. *Bull. Calcutta Sch. Trop. Med.*, 4 : 171-172.
- FALLIS, A.M., DESSER, S.S. AND KHAN, R.A. 1974. On species of *Leucocytozoon*. In : Advances in Parasitology. (B. Dawes, ed.) Academic Press, New York. 12 : 1-67.
- FORRESTER, D.J., GREINER, E.C., BENNETT, G.F. AND KIGAYE, M.K. 1977. Avian Haemoproteidae. 7. A review of the haemoproteids of the

- family Ciconiidae (storks) and descriptions of *Haemoproteus brodkorbi* sp. nov. and *H. peircei* sp. nov. *Can. J. Zool.*, **55** : 1268-1274.
- GARNHAM, P. C. C. 1966. *Malaria parasites and other Haemosporidia*. Blackwell Scientific Publ., Oxford. 1114 pp.
- GHOSH, T. N. 1980. Behaviour of *Plasmodium gallinaceum* in *Aedes aegypti*. *Proc. Indian natn. Sci. Acad.* **46 B** : 852-854.
- GHOSH, T. N. AND ROY, H.N. 1958. Orientation of oocyst of *Plasmodium gallinaceum* in the stomach wall of *Aedes aegypti*. *Proc. 45th Indian Sci. Congr.* III, p. 339.
- GREWAL, M. S., 1960. A new and rapid method for the concentration and examination of cryptic (occult) trypanosomes. *Res. Bull. Punjab. Univ.*, **12** : 31-37.
- GREWAL, M. S. 1965b. *Diplotriaena kennedyi* n. sp. (Diplotriaenidae : Diplotriaeninæ) from the nightingale. *Molpastes burmanicus* Blan. and Oates. *Res. Bull. Punjab. Univ.*, **16** : 197-207.
- GREWAL, M. S., DAVID, A. AND CHOUDHURY, D. S. 1957a. Preliminary report of the further studies on the "so-called" natural cryptic (occult) trypanosome of the house-sparrow, *Passer domesticus* Linnaeus. *Indian. J. Malar.*, **11** : 415-418.
- GREWAL, M. S., DAVID, A. AND CHOWDHURY, D.S. 1957b. Susceptibility of laboratory-bred mice to a cryptic (occult) trypanosome of the house sparrow, *Passer domesticus*. *Bull. Nat. Soc. Ind. Mal. Mosq. Dis.*, **5** : 267-268.
- GUPTA, S. P. AND KUMAR, P. 1976. On two filariid nematode parasites of birds from Lucknow. *Indian Sci. Cong. Assoc. Proc.*, **62** : 219.
- HSU, C. K., CAMPBELL, G. R. AND LEVINE, N. D. 1973. A check-list of the species of the genus *Leucocytozoon* (Apicomplexa, Plasmodiidae). *J. Protozool.*, **20** : 195-203.
- KRISHNAN, K. V 1933. Observations on the mode of action of quinine in malaria. *Indian J. med. Res.*, **21** : 331-342.
- LEVINE, N. D. 1962. Geographic host distribution of blood parasites in columborid birds. *Trans. III. State Acad. Sci.*, **55** : 92-111.
- LEVINE, N. D. AND CAMPBELL, G. R. 1971. A check-list of the species of the genus *Haemoproteus* (Apicomplexa, Plasmodiidae). *J. Protozool.*, **18** : 475-484.
- LEVINE, N. D. AND KANTOR, S. 1959. Check-list of blood parasites of birds of the order Columbiformes. *Wildl. Dis.* No. 1, 38 pp.
- MAYNE, B. 1928. An anopheline mosquito as host for the parasites of bird malaria. *Indian J. med. Res.* **16** : 557-558.
- DE MELLO, I.F. AND RAIMUNDO, M. 1934. Morphologie et cycle schizogonique d'une nouvelle espece d' *Haemoproteus*, parasite de *Leptocoma zeylanica* (Linn.). *Archos Esc. med. cir. (Nova) Goa*, **9** : 1437-1440.

- MISRA, K. K. AND CHOUDHURY, A. 1975. Experimental infection of *Trypanosoma evansi* in chicken. *J. Protozool.*, **22** : 121, 72A.
- MISRA, K. K., GHOSH, M. AND CHOUDHURY, A. 1976. Experimental transmission of *Trypanosoma evansi* to chicken. *Acta Protozool.*, **15** (3) : 381-386.
- MITRA, T. 1970. Hemoglobins in *Coturnix* and chick parasitizations by *Plasmodium* (*Garnhamella*) *coturnixae*. *Indian Sci. Congr. Assoc. Proc.*, **57** : 433.
- MOHAN, B.N. 1955. Comparative susceptibility of some *Aedes* mosquitoes to *Plasmodium gallinaceum*. *Indian J. Malar.*, **9** : 75-79.
- NAIR, C. P. AND DAVID, A. 1956. Observations on a natural (cryptic) infection of trypanosomes in sparrows (*Passer domesticus* Linnaeus). Part II. Attempts at experimental transmission and determination of the sites of infection in birds and mosquitoes. *Indian J. Malar.*, **10** : 137-147.
- NANDI, N. C. 1978. Bird-malaria : its perspective and predicaments *Zoologiana*, **2** : 40-48.
- NANDI, N. C. AND CHOUDHURY, A. 1980. Studies on the impact on the erythrocytic environment of the intracellular blood parasites of birds. *Proc. Symp. on "The Host as an Environment"* Z. S. I. Calcutta (Abstract), p. 15.
- NANDI, N. C. AND CHOUDHURY, A. 1981. Distribution of Avian haemoprotozoa in India. *Proc. VI International Congress on Protozoology*, Poland, p. 265.
- NANDI, N. C. 1981. Host cell-parasite interactions in some birds infected with *Haemoproteus oryzivora*. *All India Symposium on "Perspective in Research on Protozoa"*, Aurangabad, p. 13.
- NARAYANDAS, M. G. AND RAY, A. P. 1954. Assay of antimalarials against the sporogony cycle of *P. gallinaceum*. Part II. *Indian J. Malar.*, **8** : 137-141.
- PANDE, P. G., SHUKLA, R. R. AND SEKARIAH, P. C. 1961a. A record of *Borrelia* from the black-throated Himalayan jay, *Garrulus lanceolatus* Vigors, 1832 : A posthumous record. *J. Parasit.*, **47** : 692.
- PANDE, P. G., SHUKLA, R. R. AND SEKARIAH, P. C. 1961b. Toxoplasma from the eggs of the domestic fowl *Gallus gallus*. *Science*, **133** : 648.
- PANDIT, C. G., PANDIT, S. R. AND IYER, P. V. S. 1929. The adhesion phenomenon filariasis : a preliminary note. *Indian J. med. Res.*, **19** : 946-953.

- PEIRCE, M. A. 1976. Haemoproteid parasites of Passer spp. *Parasitology*, **73** : 407-415.
- PEIRCE, M. A. 1977. Haematozoa of East African birds II. Redescription of *Haemoproteus centropi*, a parasite of the Cuculidae. *E. Afr. Wildl. J.*, **15** : 57-60.
- PLIMMER, H. G. 1912b. Report on the deaths which occurred in the Zoological Gardens during 1911. *Proc. zool. Soc. Lond.*, pp. 235-240.
- PLIMMER, H. G. 1917. Report on the deaths which occurred in the Zoological Gardens during 1916, together with a list of the blood-parasites found during the year. *Proc. zool. Soc. Lond.*, pp. 27-35.
- QADRI, S. S. 1973. Malaria Parasite in sparrow, *Passer domesticus* of Hyderabad. A. P., India. *Progress in Protozoology*, **4** : 336.
- RAGHAVAN, N. G. S. AND MISRA, B. G. 1949. A preliminary note on experimental infections of avian malaria and sauropsidal filariasis in *C. fatigans* Weid. (sic). 1828. *Indian J. Malar.*, **3** : 243-247.
- RAMAKRISHNAN, S. P., DAVID, A. AND NAIR, C. P. 1956. Observations on a natural (cryptic) infection of trypanosomes in sparrows (*Passer domesticus* Linnaeus) III. Morphology of the developmental forms in *C. fatigans*. *Indian J. Malar.*, **10** : 313-315.
- RAMA RAO, R. 1953. Application of circular paper partition chromatography for the study of changes in free amino acids of biological materials of avian malaria (*Plasmodium gallinaceum*). *Proc. Soc. Biol. Chem. India*, **11** : 38-39.
- RAMA RAO, R. AND COHLY, M. A. 1953. Microelectrophoretic study of some serum proteins from normal and malarial chickens (infected with *P. gallinaceum*). *Curr. Sci. (Bangalore)*, **22** : 204-205.
- RAMA RAO, R., NAGARAJAN, K., RAMASWAMY, A. S. AND SIRSI, M. 1958. Observation of the role of methionine in experimental malaria (*P. gallinaceum* in chick malarial). *Curr. Sci. (Bangalore)*, **27** : 390-392.
- RAMA RAO, R., RAMASWAMY, A. S. AND DE NAGENDRANATH. N. 1951a. Immunological study in avian malaria (*P. gallinaceum*) by the anaphylactic reaction. *Proc. Indian Acad. Sci.*, **34** : (B) : 242-247.
- RAMA RAO, R., RAMASWAMY, A. S. AND DE NAGENDRANATH, N. 1951b. A method for preparing concentrates of malarial parasites from chicks infected with *P. gallinaceum*. *Indian. med. Gaz.*, **86** : 147-148.
- RAMA RAO, R. AND SIRSI, M. 1955. Vitamins in avian malaria. *Proc. Soc. Biol. Chem. India*, **13** : 52-53.
- RAMA RAO, R. AND SIRSI, M. 1956a. Avian malaria and B complex vitamins. I. Thiamine. *J. Indian Inst. Sci.*, **38** (A) : 108-114.
- RAMA RAO, R. AND SIRSI, M. 1956b. Avian malaria and B complex vitamins. II. Riboflavin. *J. Indian Inst. Sci.*, **38** (A) : 186-189.
- RAMA RAO, R. AND SIRSI, M. 1956c. Avian malaria and B complex vita-

- mins. III. Para aminobenzoic acid. *J. Indian Inst. Sci.*, **38** (A) : 224-227.
- RAMA RAO, R. AND SIRSI, M. 1956d. *Rauwolfia* (sic) alkaloids in avian malaria (*P. gallinaceum*). *Curr. Sci.* (Bangalore), **25** : 357.
- RAMA RAO, R. AND SIRSI, M. 1958a. Biochemical studies in avian malaria. (*P. gallinaceum*). Effect of *P. gallinaceum* infection on amino acids of the chick. *J. Indian Inst. Sci.*, **40** (A) : 23-30.
- RAMA RAO, AND SIRSI, M. 1958b. A note on the spectrophotometric study of the blood in avian malaria. *Bull. Nat. Soc. Ind. Mal. Mosq. Dis.*, **6** : 105-106.
- RAMAKRISHNAN, S.P., BASU, P.C., SINGH, H. AND SINGH, N. 1962. Studies on the toxicity and action of diamino-diphenyl sulphone (DDS) in avian and simian malaria. *Bull. W. H. O.*, **27** : 213-221.
- RAMAKRISHNAN, S. P., BASU, P. C., SINGH, H. AND WATTAL, B. L. 1963. A study on the joint action of diamino-diphenyl sulphone (DDS) and pyrimethamine in the sporogony cycle of *Plasmodium gallinaceum* : Potentiation of the sporontocidal activity of pyrimethamine by DDS. *Indian J. Malar.*, **17** : 141-148.
- RAMAKRISHNAN, S. P., DAVID, A. AND NAIR, C. P. 1956. Observations on a natural (cryptic) infection of trypanosomes in sparrows (*Passer domesticus* Linnaeus). III. Morphology of the developmental forms in *C. fatigans*, *Indian J. Malar.*, **10** : 313-315.
- RAMAKRISHNAN, S. P., RAY, A. P. MENON, M. K. AND BHATNAGAR, V. N. 1952. A note on the effect of proguanil on the sporogony cycle of *P. gallinaceum* Brumpt, 1935. *Indian J. malar.*, **6** : 465-469.
- RAMASWAMY, A. S. AND RAMA RAO, R. 1954. Biosynthesis of purines in the malarial parasite *P. gallinaceum*. *Proc. 41st. Indian Sci. Congr.*, p. 196.
- RAMASWAMY, A. S., RAMA RAO, R. AND DE NAGENDRANATH, N. 1950, Studies on the anaemia in chicks infected with *P. gallinaceum*. *Proc. Indian. Acad. Sci.*, **32** (B) : 126-132.
- RAO, S. B. V 1957. A discussion on the importance and prevalence of various poultry parasites. *Indian Poult. Gaz.*, **40** : 27-29.
- RAO, S. B. AND RAO, T. B. 1980. Preliminary survey and seasonal dynamics of the bird plasmodia from Andhra Pradesh. *Proc. 1st. Symp. Hundred years of malaria research*. Calcutta, p. 44.
- RAY, A. P., BASU, P. C. AND SINGH, J. 1952. prophylactic trial with lapinone against *P. gallinaceum* in fowls. *Indian J. Malar.*, **6** : 159-162.
- RAY, H. N., DASGUPTA, B. AND SEN GUPTA, P. C. 1956. Mitochondria in *Plasmodium gallinaceum*. *Bull. Calcutta Sch. Trop. Med.*, **4** : 20.
- RAY, H. N., DASGUPTA, B., SEN, H. G. AND DUTTA, B. N. 1955. Cyto-

- chemical observations on the gametocytes of *Haemoproteus columbae*. *Bull. Calcutta Sch. Trop. Med.*, 3 : 170-171.
- RAY, H. N., DAS GUPTA, B., SEN GUPTA, P. C. AND DUTTA, B. N. 1956. Some observations on the ookinete and female gametocyte of *Plasmodium gallinaceum*. *Bull. Calcutta Sch. Trop. Med.*, 4 : 21.
- RAY, H. N., GHOSH, T. N. AND SMITH, R. O. A. 1956. Stimulating effect of homologous blood feed on the sporogonous cycle of *Plasmodium gallinaceum* in *Aedes aegypti*. *Bull. Calcutta Sch. Trop. Med.*, 4 : 159.
- RAY, H. N., AND HAJRA, B. 1960. Observations on the immersion refractometry of *Haemoproteus columbae* in relation to aqueous and alcoholic fixatives. *Bull. Calcutta Sch. Trop. Med.*, 8 : 55-56.
- RAY, H. N., AND MALHOTRA, M. N. 1960. Further observations on the mode of development of gametocytes of *Haemoproteus columbae* Celli & Sanfelice, in the blood of the domestic pigeon. *Bull. Calcutta Sch. Trop. Med.*, 8 : 57.
- RAY, A. P., MISRA, B. G. CHANDRASEKHAR, G. R. AND SINGH, J. 1953. Screening of antimalarials against *P. gallinaceum* in chicks. Part III. Synergistic action of pyrimethamine and quinine. *Indian J. Malar.*, 7 : 311-317.
- RAY, A. P. AND SHARMA, G. K. 1956. Acquired resistance to chloroquine diphosphate in *P. gallinaceum* in chicks. *Nature (Lond.)*, 178 : 1291-1292.
- RAY, A. P., SHARMA, G. K., AND MISRA, B. G. 1956. Screening of antimalarials against *P. gallinaceum* in chicks. Part VI. Evidence of two-fold acquired resistance to chloroquine diphosphate in a strain of *P. gallinaceum* in chicks. *Indian J. Malar.*, 10 : 299-304.
- ROSS, R. 1898a. Preliminary report on the infection of birds with *Proteosoma* by the bites of mosquitoes. Government Press, Calcutta, Oct., 11, 1898. 4 pp.
- ROSS, R. 1898b. Report on the cultivation of *Proteosoma*, Labbe, in grey mosquitoes. *Indian med. Gaz.*, 33 : 401-408, 448-451.
- ROSS R. 1899a. Infection of birds with *Proteosoma* by the bite of mosquitoes. *Indian med. Gaz.*, 34 : 1-3.
- ROSS, R. 1923. Memiors ; with a full account of the great malaria problem and its solution. London, John Murray. 547 pp.
- SCOTT, H. H. 1928. Report on the deaths occurring in the Society's gardens during the year 1927. *Proc. zool. Soc. Lond.*, pp. 81-119.
- SHORTT, H. E. 1922. Review of the position of the genus *Haemocystidium* (Castellani and Willey, 1904) with a description of two new species. *Indian J. med. Res.*, 9 : 814-826.
- SHORTT, H. E. AND MALAMOS, B. 1947. A series of exhibits showing the pre-erythrocytic forms of *Plasmodium gallinaceum* in the brain of the

- chick at 24 hour intervals following infection by the bites of *Aedes aegypti*. *Trans. R. Soc. Trop. Med. Hyg.* **40** : 357.
- SHORTT, H. E. AND MENON, K. P. 1940. Experimental production of monkey and avian malaria by an unusual route of infection. *J. Malar. Inst. India*, **3** : 195-198.
- SHORTT, H. E., MENON, K. P. AND IYER, P. V S. 1940. The form of *Plasmodium gallinaceum* present in the incubation period of infection. *Indian J. med. Res.*, **28** : 273-276.
- SHORTT, H. E., PANDIT, S. R., MENON, K. P. AND SWAMINATH, C. S. 1938. The absence of effective immunity after cure of protozoal infections. *Indian J. med. Res.*, **25** : 763-777.
- SHORTT, H. E., PANDIT, S. R., MENON, AND SWAMINATH, C. S. 1939. The absence of effective immunity after cure of protozoal infections. *Proc. 25th Indian Sci. Congr.*, p. 236.
- SINGH, D. AND RAGHAVAN, N. G. S. 1958. Diethylcarbamazine against microfilariae in birds. *Bull. Nat. Soc. Ind. Mal. Mosq. Dis.*, **6** : 38.
- SINGH, J., BASU, P. C. AND RAY, A. P. 1952. Screening of antimalarials against *P. gallinaceum* in chicks. Part 1. Preliminary studies. *Indian J. Malar.*, **6** : 145-158.
- SINGH, J. AND BHATTACHARJI, M. 1944. Rapidstaining of malarial parasites by a water soluble stain. *Indian med. Gaz.*, **79** : 102-104.
- SINGH, J., CHANDRASEKHAR, G. R., BAMI, H. L. AND RAY, A. P. 1954. Screening of antimalarials against *P. gallinaceum* in chicks. Part IV *Indian J. Malar.* **8** : 1-8.
- SINGH, J. AND DAVID, A. 1949. Staining and re-staining of oocysts and sporozoites from infected mosquitoes. *Indian J. Malar.*, **3** : 349-352.
- SINGH, J., MISRA, B. G., SEN GUPTA, G. P., RAY, A. P. AND NARAYANDAS, M. G. 1953. Effect of pyrimethamine in the sporogony cycle of *P. gallinaceum* Brumpt, 1935 *Indian J. Malar.*, **7** : 325-328.
- SINGH, J. AND MOHAN, B. N. 1955. Susceptibility of *Culex (Culex) bitaeniorhynchus* Giles, 1901, to *Plasmodium relictum* but not to *Plasmodium gallinaceum* and *Plasmodium falciparum*. *Indian J. Malar.*, **9** : 71-74.
- SINGH, J., NAIR, C. P. AND BASU, P. C. 1950. Activity of bromo analogue of paludrine (bromoguanide) against avian and simian malarias *Indian J. Malar.*, **4** : 455-465.
- SINGH, J., NAIR, C. P., DAVID, A. AND KRISHNAN, K. S. 1954. Natural immunity of domestic pigeons (*Columba livia* Gmelin) to experimental infections with *P. gallinaceum*. *Indian. J. Malar.*, **8** : 117-126.
- SINGH, J., NARAYANDAS, M. G. AND RAY, A. P. 1953. Assay of anti-malarials against the sporogony cycle of *P. gallinaceum*. Part 1. *Indian J. Malar.*, **7** : 33-39.

- SINGH, J., RAMAKRISHNA, S. P. AND DAVID, A. 1950. Trypanosomes and plasmodial sporozoites in the salivary glands of a laboratory bred *C. fatigans* Weid., (sic) 1828. *Indian J. Malar.*, 4 : 189-192.
- SINGH, J., RAMAKRISHNA, S. P., KRISHNASWAMI, A. K., PRAKASH, S., MAMMEM, M. L. AND RAY, A. P. 1952. Drug resistance of preerythrocytic forms of *Plasmodium gallinaceum* Brumpt, 1935. *Indian J. Malar.*, 6 : 457-463.
- SINGH, J., RAY, A. P. AND CHANDRASEKHAR, G. R. 1953. Screening of antimalarials against *P. gallinaceum* in chicks. Part II. *Indian J. Malar.*, 7 : 117-119.
- TANDON, N., SEN GUPTA, P. C., MUKHERJEE, A. M. AND BHATTACHARYA, N. C. 1970. Pathological changes in the internal organs of *Coturnix coromendalica* in *Plasmodium garnhami* infection. *Bull. Calcutta Sch. Trop. Med.*, 18 : 108, 110.
- WHITE, E. M. AND BENNETT, G. F. 1978. Avian Haemoproteidae. 9. Description of *Haemoproteus stellaris* n. sp. and a review of the haemoproteids of the swallow family Hirundinidae. *Can. J. Zool.* 56 : 2110-2116.
- WHITE, E. M. AND BENNETT, G. F. 1979. Avian Haemoproteidae. 12. The haemoproteids of the grouse family Tetraonidae. *Can. J. Zool.*, 57 : 1465-1472.
- WHITE, E. M., BENNETT, G. F. AND WILLIAMS, N. A. 1979. Avian Haemoproteidae. 11. The haemoproteids of the hummingbird family Trochilidae. *Can. J. Zool.*, 57 : 908-913.
- WILLIAMS, N. A. AND BENNETT, G. F. 1980. Avian Haemoproteidae. 13. The haemoproteids of the ducks and geese (Anatidae). *Can. J. Zool.*, 58 : 88-93.

## ADDENDUM

Postscript : The following papers came to the author's attention after the manuscript went to press.

- BANERJEE, K. K., SABIR, M. AND DASGUPTA, C. K. 1974. Incidence of *Leucocytozoon sabrazesi* Mathis and Leger, 1910 in West Bengal. *Indian J. Anim. Hlth.*, **13** (2) : 185.
- DASGUPTA, B. 1959. The Feulgen reaction in the different stages of the life cycle of certain Sporozoa. *Q. J. microsc. Sci.*, **100** : 241-255.
- 1960a. Lipids in different stages of the life cycles of malaria parasites and some other Sporozoa. *Parasitology*, **50** : 509-514.
- 1960b. Polysaccharides in the different stages of the life cycle of certain Sporozoa. *Parasitology*, **50** : 509-514.
- 1960c. Alkaline phosphatase reaction in the different stages of the life cycles of certain Sporozoa. *Vest. Csl. Zemed. Mus.*, **25** : 16-21.
- 1961. The basophilia in the different stages of the life cycles of certain Sporozoa. *Acta Soc. Zool. Bohemoslov.* **25** : 203-214.
- 1964. Some uses of acridine orange in the study of parasitology. *Proc. zool. Soc. Calcutta*, **17** : 101-109.
- 1968. A possible virus disease of malaria parasite. *Trans. R. Soc. Trop. Med. Hyg.*, **62** : 730.
- DASGUPTA, B., RAY, H. N., DUTTA, B. N., AND SENGUPTA, P. C. 1955. Cytochemical study of *Plasmodium gallinaeum* in *Aedes aegypti*, a preliminary note. *Bull. Calcutta Sch. Trop. Med.*, **3** : 28.
- LAWRENCE, J. J. AND BEARUP, A. J. 1961. A new host record for *Plasmodium relictum* : the silver gull (*Larus novaehollandiae*). *Indians. J. Malar.*, **15** : 11-19.
- PAL, N. AND DASGUPTA, B. 1980 (1982). Malarial parasites in some Indian birds. *Proc. zool. Soc. Calcutta*, **33** : 87-109.