

**RECORDS
OF THE
ZOOLOGICAL SURVEY OF INDIA**

MISCELLANEOUS PUBLICATION

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CHECK-LIST OF INDIAN NEMATODES

(ANIMAL PARASITES)

BY

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FOREWORD

The study of animal parasitic nematodes was initially left to foreign based helminthologists like Cobbold (1864–1886), Railliet (1885–1919), Parona (1894–1907) and others but subsequently this study was taken over by foreign helminthologists working in India and still later by Indian helminthologists. A vast knowledge on the nematode parasites of animals has accumulated during the last one hundred years. Baylis (1936, 1939) in the two volumes on Nematoda in the Fauna of British India series gave a very succinct account of nematodes (mostly animal parasitic) from India. His work has now become outdated and needs a thorough review in view of the additional species described from this part of the world and also due to changes in the systematic position of a great number of species. The young authors of the present checklist are to be congratulated for having completed the preliminary work to a revised Fauna of India (as the series is now called) if and when it becomes possible for some helminthologist(s) to pick up the thread.

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INTRODUCTION

The nematodes are one of the most successful group of animals. They show great adaptive radiation; their representatives live in fresh or marine water, in soil and on plants as much as on animals. In the early days of Rudolphi (1801–1819), Dujardin (1842–1845) and Diesing (1839–1861) study of these worms was primarily for the sake of knowledge, only a few genera like *Ascaris*, *Strongylus* etc. were then considered to be of medical and veterinary interest. It was left to Leuckart (1848–1887), Cobbold (1864–1886); Blanchard (1848–1904) and others to prove the medical and veterinary importance of the nematodes. The present changed viewpoint, "Knowledge for the sake of its potential practical application to human and animal welfare" has increased the number of workers and hence the literature. Known genera and species have multiplied many-fold.

In India the study of nematology started only in the nineteenth century, on a very confined scale, by the medical and veterinary man. During the first stage, specimens collected from India, Burma and Sri Lanka were passed on to the experts like Cobbold (1864–1886), Railliet (1885–1919), Parona (1894–1907) and Linstow (1872–1914), and thus many species from domesticated and wild animals were described by workers outside the country.

In India study of nematodes was taken up by Europeans like Gaiger (1910–1915), Lane (1913–1921), Stewart (1914), Sheather (1919), Boulenger (1914–1928), Ware (1924), Korke (1924–1933), Chandler (1925–1929), Maplestone (1926–1940), Baylis (1916–1936), and Daubney (1923–1933), mostly from Indian Medical and Veterinary services. Baylis (1936 and 1939) compiled the work done so far in two volumes on Nematoda in the fauna of British India series.

In the third decade of the present century Indian workers also took up the study of the group. Workers like Thapar (1924–), Karve (1927–1951), Thwaite (1927), Mirza (1929–1960), Basir (1937–1953), Pandit (1929), Iyer (1929), Agrawal (1930), Bhalerão (1931–1944), Chatterji (1933–1936), Singh, K. P. (1934), Patwardhan (1935), Pande (1936–), Chakravarty (1936–), Moorthy (1937–1942), Ali (1957–), Sarwar (1944–) and more recently Khera, Narayan Rao, Majumdar, Singh Kr. S., Rasheed, Gupta, Pande, B.P. and others have extended our knowledge to a great extent.

On the free living, soil and plant nematodes, some work was done by Carter (1855–1859), Stewart (1914) and Butler (1913–1919). However, recently this work has been taken up by workers like Siddiqi, Jairajpuri, Timm, Khera, Prasad, Misra, Kannan, Seshadri etc.

Though the literature on Indian nematology has become enormous, no one has attempted to envisage the whole subject in the form of a checklist except Gaiger (1910–1915) who confined his checklist to the parasites of domesticated animals of India and Mudaliar (1947) for specimens in the Madras Museum. Singh (1962) compiled a checklist of Trematodes, Nematodes and Acanthocephala. Baylis' (1936 and 1939) Fauna of India, of course, is monumental work on Indian nematodes but much has been added to our knowledge since its publication. A fresh summarization of the subject, therefore, seems very necessary. The present work is therefore an attempt in this direction.

The object of this work is to collect the published information about the nematodes of India and the adjacent countries, and to present it in a series of articles. The present paper, which forms the first instalment of the series,

consists of a checklist of nematodes of Indian animals together with such informations as localities, hosts and location from which they have been reported. Under "Bibliography," in addition to the original references of valid species some important references have also been listed. Opportunity has also been taken to indicate the species and the primary types of the species represented in the National Zoological Collections preserved in the Zoological Survey of India.

While working on this project, certain difficulties were encountered. It seems essential to discuss these so that some solution may be found in future by the experts.

Distribution:—Early workers, being mainly medical and veterinary men, attached little importance to the geographical distribution of the parasites and even in recent days publication of such data is not properly appreciated. However, it has been proved that the geographical distribution of parasites is influenced by the same general principles which affect the distribution of free-living animals. It, however, becomes a little more complicated by the requirements of suitable hosts in sufficient numbers, as well as the need for favourable environmental conditions. For various reasons, a host may or may not harbour the same parasite in different parts of its range. These reasons may be due to existing ecological conditions or they may be partly based on conditions of the ancient past. Sindermann (1957) and Mantor (1967) have shown that a detailed and complete understanding of the present distribution of certain parasites may reveal information of very vital nature, such as of the immediate and distant past of both hosts and parasites. All these facts indicate the importance of distributional studies.

Again, whatever distributional data are available these, too, are in most cases expressed ambiguously *eg.*, *Gongylonema pulchrum* Molin, 1857, is reported from Punjab and Uttar Pradesh but no particular place is mentioned. In certain cases only India is mentioned. Summing up, we find Hall's dictum, that "we do not have sufficient, accurate information covering the occurrence, distribution and relative importance of parasites in any given locality" holds fairly good even to day.

The migration and introduction or transportation of hosts is a problem in itself. There are cases when Indian animals were transported outside the country and the parasites were recorded from them at their new homes and *vice versa*. However, all such cases as and when available have been included in this checklist.

Host Names:—As regards scientific names of the hosts, the condition is very grave. Only the common names or group names are given in a large number of instances *eg.*, drongo, cattle, monkey, equines, etc. When specific names are given they have become outdated and require fresh checking up. In larger forms, *eg.*, birds and mammals, subspecies are also easily recognisable, which can throw light on parasites' geographical ranges. But as regards host identification, subspecies are rarely mentioned. If the subspecies was known, at least a probable range of the parasite would have been estimated. Current scientific names are given for them which do not evolve much complications, at the same time original names are also retained.

Synonyms:—The question of synonymy is a very difficult one and requires an extensive analytical work, exclusively devoted to this purpose. However, within the limited scope of the present work it is not possible to give an extensive synonymy, hence the most widely accepted synonyms are listed. The recent works in the field, as far as available, are taken into account. In some

cases independent views have also been incorporated; in all such cases explanations are given at appropriate places.

Arrangement:—The parasites have been divided into six broad groups according to the hosts *viz.*, Invertebrates, Fishes, Amphibians, Reptiles, Birds and Mammals. Again, under each group the parasites are arranged systematically, and the system of classification followed is after Yamaguti (1961). As regards host, they are arranged in alphabetical order. Current scientific names of hosts are given, followed by the names in parentheses given by the original authors to avoid any confusion. Similarly, localities within Indian limits are given first followed by others. Location of the parasite in the body of the host is indicated, wherever available. The species represented in the National Zoological Collections are marked (N) and primary types, with (T). Numbers in parentheses indicate the corresponding references.

In the present work 912 species of nematode parasites of various Indian animals have been listed. It also provides informations about synonyms, hosts, location in the host's body and their geographical distribution. In addition a comprehensive list of references is also given.

Two new names:—*Oesophagostomum khoranai* pro *Oesophagostomoides traguli* Maplestone, 1932 and *Ostertagia (Grosspsiculagia) malviyai* pro *Ostertagia skrjabini* Singh and Pandey, 1963 have been proposed. Ten new combinations have also been proposed.

The authors are greatly indebted to Dr. S. Khera, Joint-Director-in-Charge, Zoological Survey of India, Calcutta, for providing facilities for completion of this work. They are also grateful to him for kindly going through the manuscript and his valuable suggestions.

NEMATODES OF FISHES

Order ICHTHYOSTRONGYLIDEA Yamaguti, 1961.

Family CYLICOSTRONGYLIDAE Yamaguti, 1961.

1. **Cylicostrongylus thapari** Sood, 1966.

Host—*Mastacembelus armatus*; Location—intestine; Locality—India—Gomati River, Lucknow, U.P. (467)

Order OXYURIDEA Weinland, 1858.

Family ATRACTIDAE Travassos, 1919.

Subfamily CROSSOCEPHALINAE Yorke and Maplestone, 1926.

- (T)2. **Monhysterides piscicola** Baylis and Daubney, 1922.

Host—*Tor putitora* (= *Barbus tor*); Location—alimentary canal; Locality—India—, Bangladesh—Torsa River, Falakata. (62)

Family KATHLANIIDAE Yorke and Maplestone, 1926.

Subfamily KATHLANIINAE Lane, 1914.

3. **Kathlania chiloscyllyi** Thwaite, 1927.

Host—*Chiloscyllium indicum*; Location—alimentary canal; Locality—Sri Lanka, Pearl Banks. (508)

Subfamily SPIRONOURINAE Yamaguti, 1961.

- (N)4. **Spiironoura barbi** (Baylis and Daubney, 1922) Yorke and Maplestone, 1926.

Syn. (T) *Falcaustra barbi* Baylis and Daubney, 1922.

Host—*Tor putitora* (= *Barbus tor*), *Barbus* sp.; Location—intestine; Locality—India—Madras; Bangladesh—Torsa River, Falakata. (62)

5. **S. kalasiensis** Karve and Naik, 1951.

Host—*Scaphiodon nashii*; Location—intestine; Locality—India. (215)

6. **S. kaverii** Karve and Naik, 1951.

Host—*Puntius carnaticus* (= *Barbus carnaticus*); Location—intestine; Locality—India—Kaveri River. (215)

7. **S. khadrai** Karve, 1941.

Host—*Puntius dobsoni* (= *Barbus dobsoni*); Location—intestine; Locality—India. (212)

8. **S. leptcephala** (Baylis and Daubney, 1922) Yorke and Maplestone, 1926.

Syn. (T) *Falcaustra leptcephala* Baylis and Daubney, 1922. *Spiironoura leptcephalum* Yorke and Maplestone, 1926.

Host—*Tor putitora* (= *Barbus tor*); Location—intestine; Locality—India; Bangladesh—Torsa river, Falakata. (62)

- (T)9. **S. nilgiriensis** Soota and Chaturvedi 1970.
Host—*Puntius carnaticus*; Location—intestine; Locality—India—
Moyar River, Teppakan, Nilgiri, Madras. (478)
- Order ASCARIDIDEA Yamaguti, 1961.
Family ASCARIDIDAE Blanchard, 1849.
Subfamily ASCARIDIINAE Travassos, 1919.
10. **Ascaridia ganpatii** Sood, 1955.
Host—*Mastacembelus armatus*; Location—intestine; Locality—
India—Gomati river, Lucknow, U.P. (467)
- Family QUIMPERIIDAE Baylis, 1930.
11. **Buckleyinema buckleyi** Ali and Singh, 1954.
Host—*Mystus cavasius*; Locality—India. (32)
12. **Gendria brevispiculum** Karve, 1941.
Host—*Mystus* sp. (= *Macrones* sp.); Locality—India. (212)
13. **Metaquimperia bagarii** Karve, 1941.
Host—*Bagarius garrelli*; Locality—India. (212)
14. **M. callichroi** Karve, 1941. ✓
Host—*Ompok bimaculatus* (= *Callichrous bimaculatus*); Locality—
India. (212)
15. **M. ophiocephali** Gupta and Sood, 1969.
Host—*Ophiocephalus striatus*; Location—intestine; Locality—India
—Lucknow, U.P. (183a)
16. **M. wallagonia** Sood, 1968.
Host—*Wallago attu* (= *Wallagonia attu*); Location—stomach;
Locality—India—Lucknow, U.P. (469)
17. **Neometaquimperia buckleyi** Agrawal, 1965.
Host—*Mystus tengara* (= *Macrones tengara*); Location—small
intestine; Locality—India—Lucknow, U.P. (7)
18. **N. vittatusi** Agrawal, 1965.
Host—*Mystus vittatus*; Location—intestine; Locality—India—
Lucknow, U.P. (7)
19. **Paragendria baylisi** Khera, 1955.
Host—*Mytus seenghala*; Location—intestine; Locality—India—
Lucknow, U.P. (224)
20. **P. macrones** (Stewart, 1914) Baylis, 1939.
Syn. *Subulura macrones* (Stewart, 1914) Barreto, 1917.
Host—*Mystus aor* (= *Macrones aor*), *M. seenghala*; Location—
intestine; Locality—India—Lucknow, U.P. (490)
21. **Paraquimperia anguillae** Karve, 1941.
Host—*Anguilla bengalensis*; Locality—India. (212)

Family HETEROCHELLIDAE Railliet and Henry, 1915.

Subfamily FILOCAPSULARIINAE Yamaguti, 1961.

22. **Contracaecum balistis** (Linstow, 1905).
Syn. *Ascaris balistis* Linstow, 1905.
Host—*Abalistes stellaris* (= *Balistes stellaris*), *Sufflamen capistratus* (= *Balistes mitis*); Locality—Sri Lanka. (268)
- (N)23. **C. incurvum** (Rudolphi (1819) Baylis and Daubney, 1922).
Syn. *Ascaris incurva* Rudolphi, 1819.
Host—*Hippoglossus platessoides*, *Scomberomorus maculatus*, *Seriola lalandi*, *S. zonata*, *Xiphias gladius*; Location—stomach; Locality—India—Calcutta, W.B. (sea), Atlantic, Mediterranean, Pacific. (401)
- (N)24. **C. plagiosomorum** (Linstow, 1905).
Host—*Cetorhinus* (*Selache*) *maximus*, *Clupea* sp., *Mystus* sp. (= *Macrones*), *Raja radiata*, *Pangasius pangasius*; Location—gills; Locality—India, Mettur Dam, Tamil Nadu, Porbandar, Gujarat; Sri Lanka. (268)
25. **C. trichiuri** Thwaite, 1927.
Host—*Trichiurus savala*; Locality—Sri Lanka. (508)
- *26. **Lappetascaris lutjani** Rasheed, 1965.
Host—*Hilsa ilisha*, *Lutjanus* sp.; Location—intestine; Locality—Pakistan—Karachi. (389)
27. **Paranisakis pastinacae** (Rudolphi, 1819) Baylis, 1936.
Syn. *Ascaris pastinacae* Rudolphi, 1819. *Porrocaecum pastinacae* (Rudolphi, 1819) Dollfus and Desportes, 1945. *Ascaris quadrata* Linstow, 1905, not 1904. *Paranisakis taeniurae* Thwaite, 1927.
Host—*Dasyatis marmorata* (= *Trygon marmorata*), *D. pastimacus* (= *Trygon pastimaca*), *Pteromylaeus bovinus*, *Taeniura melanospilus*, *Taeniura* sp.
Location—intestine; Locality—Sri Lanka; Atlantic. (401)
28. **Raphidascaroides diodonis** (Thwaite, 1927) Olsen, 1952.
Syn. *Raphidascaris diodonis* Thwaite, 1927, *Ryjikovascaris diodonis* (Thwaite, 1927) Mosgovoy, 1951.
Host—*Diodon hystrix*; Locality—India—Nagapatam, Tamil Nadu; Sri Lanka. (508)
- (N)29. **Terranova galeocerdonis** (Thwaite, 1927) Johnston and Mawson, 1945.
Syn. *Porrocaecum galeocerdonis* Thwaite, 1927.
Host—*Galeocерdo cuvier* (= *Galeocерdo tegrinus*), *Orectolobus* sp., *Sphyrna* sp., *Stegostoma* sp.; Location—mesentry; Locality—India—Gondia, M. P.; Lucknow, U. P.; Salebhata, Patna, Bihar; Sri Lanka —Pearl Banks. (508)

* Rasheed (1965) erected new subfam. Lappetascarinae for her n.g. under the family Anisakidae Railliet and Henry, 1912; Yamaguti (1961) considers, Anisakinae as synonym of Filocapsulariinae. Hence, we prefer to keep this n.g. of Rasheed under Filocapsulariinae Yamaguti 1961 and Lappetascarinae as a synonym of the same.

- (N)30. **T. pristis** (Baylis and Daubney, 1922) Johnston and Mawson, 1945.

Syn. *Porrocaecum pristis* Baylis and Daubney, 1922.

Host—*Pristis microdon* (= *Pristis perrotteti*), *Wallago attu*. Locality—India—Gondia, M.P., Uluberia, Hooghly river, W.B. (62)

Order SPIRURIDEA Diesing, 1861.

Family CAMALLANIDAE Railliet and Henry, 1915.

- †31. **Camallanus anabantis** Pearse, 1933.

Host—*Anabas testudineus*, *Clarias batrachus*, *Channa punctatus* (= *Ophiocephalus punctatus*), *Puntius filamentosus*, *Rasbora daniconius*; Location—intestine; Locality—India; Sri Lanka; Thailand (= Siam). (344a)

32. **C. atridentus** Khera, 1956.

Host—*Channa punctatus* (= *Ophiocephalus punctatus*); Location—intestine; Locality—India—Saharanpur, U.P. (226)

33. **C. equispiculus** Sood, 1968.

Host—*Heteropneustes fossilis*; Location—stomach; Locality—India—Lucknow, U.P. (469)

34. **C. lissemysus** Gupta and Singh, 1960.

Host—*Lissemys punctata* (= *Punctata punctata*); Location—intestine; Locality—India—Ferozepur, Punjab. (178)

35. **C. mastacembeli** Agarwal, 1967

Host—*Mastacembelus armatus*; Location—intestine; Locality—India—Lucknow, U.P. (9)

- *36. **C. patnai** Sood, 1968 (emend).

Syn. *Zeylanema mastacembeli* Sahay and Sinha, 1966.

Host—*Mastacembelus armatus*; Location—intestine; Locality—India—Patna, Bihar. (411)

37. **C. salmonae** Chakravorty, 1942.

Host—*Salmo* sp.; Location—intestine; Locality—India—Kashmir. (96)

38. **C. straitusi** Gupta and Sood, 1969.

Host—*Ophiocephalus striatus*; Location—stomach; Locality—India—Lucknow, U.P. (183a)

- †39. **C. sweeti** Moorthy, 1937.

Host—*Channa gachua* (= *Ophiocephalus gachua*), *Gambusia* sp., *Lepidocephalichthys thermalis*, *Puntius* sp. (= *Barbus* sp.); Locality—India—Chitaldrug, Mysore. (322)

† Yeh, 1960, placed these species under a new genus *Zeylanema*.

* Sood, 1968, proposed new name for *Zeylanema mastacembeli* Sahay and Sinha, 1966.

40. **C. thaparus** Sahay and Narayan, 1968.
Host—*Channa striatus* (= *Ophiocephalus striatus*); Location—intestine; Locality—India—Patna, Bihar. (406)
41. **C. unispiculus** Khera, 1956.
Host—*Mastacembelus armatus*; Location—intestine; Locality—India—Lucknow, U.P. (226)
- (T)42. **Camallanides hemidentata** Majumdar, 1965.
Host—*Channa striatus* (= *Ophiocephalus striatus*); Location—intestine; Locality—India—Calcutta, W.B. (Fish market). (285)
43. **Indocamallanus heteropneusti** (Chakravarty, Majumdar and Sain, 1961) Chakravarty *et al.*, 1963.
Syn. *Neocamallanus heteropneusti* Chakravarty *et al* 1961.
Host—*Heteropneustes fossilis*; Location—stomach; Locality—India—Calcutta, W.B. (105)
- (T, N)44. **Neocamallanus bengalensis** Soota and Chaturvedi, 1971.
Host—*Channa gachua* (= *Ophiocephalus gachua*); Location—intestine; Locality—India—Calcutta, W.B. (480)
45. **N. singhi** Ali, 1957.
Host—*Channa punctatus* (= *Ophiocephalus punctatus*); Location—intestine; Locality—India—Hyderabad, A.P. (26)
46. **Paracamallanus ophiocephali** Karve, 1941.
Host—*Channa gachua* (= *Ophiocephalus gachua*); Locality—India. (212)
47. **Procamallanus aspiculus** Khera, 1955.
Host—*Bagarius bagarius*, *Channa striatus*; Location—intestine; Locality—India—Barasat, near Calcutta, W.B.; Lucknow, U.P. (223)
48. **P. attui** Pande, Bhatia and Rai, 1963.
Host—*Wallago attu*; Location—body cavity, stomach; swim bladder; Locality—India—Mathura, U.P. (339)
49. **P. bagarii** Karve and Naik, 1951.
Host—*Bagarius bagarius*, *Ompok bimaculatus* (= *Callichrous bimaculatus*); Locality—India—Nagpur, M.P., Poona, Maharashtra. (215)
- *50. **P. buckleyi** Agrawal, 1964.
Host—*Heteropneustes fossilis*; Locality—India. (3)
51. **P. clarius** Ali, 1957.
Host—*Clarius batrachus*; Location—stomach; Locality—India—Hyderabad, A.P. (26)

* Agrawal, 1964 has placed her sp. under a new subgenus *Procamallanus*.

52. **P. daccai** Gupta, 1959.
Host—Catfish (not identified); Location—intestine; Locality—India—Lucknow, U.P.; Bangladesh—Dacca. (180)
53. **P. devendri** Sinha and Sahay, 1966.
Host—*Heteropneustes fossilis*; Location—stomach; Locality—India—Patna—Bihar. (458)
54. **P. fasciatusi** Sood, 1967.
Host—*Trichogaster fasciatus*; Location—intestine; Locality—India—Lucknow, U.P. (468)
55. **P. globocanchus** Ali, 1960.
Host—*Rita kuturnee* (= *Rita hastata*); Location—gills; Locality—India—Hyderabad, A.P. (27)
56. **P. gomtii** Sood, 1967.
Host—*Eutropiichthys vacha*; Location—intestine; Locality—Gomti, Lucknow, U.P. (468)
57. **P. gubernaculus** Khera, 1955.
Host—*Mystus cavasius*; Location—intestine; Locality—India—Lucknow, U.P. (223)
58. **P. heteropneustus** Ali, 1957.
Host—*Heteropneustes fossilis*; Location—stomach; Locality—India—Hyderabad, A.P. (26)
59. **P. hyderabadensis** Ali, 1957.
Host—*Mystus seenghala*; Location—stomach; Locality—India—Hyderabad, A.P. (26)
60. **P. mathurai** Pande, Bhatia and Rai, 1963.
Host—*Heteropneustes fossilis*; Location—stomach; Locality—India—Mathura, U.P. (339)
61. **P. mehrai** Agrawal, 1930.
Host—*Wallago attu*; Location—intestine; Locality—India—Lucknow, U.P.; Patna, Bihar. (2)
62. **P. mulleri** Agrawal, 1966.
Host—*Heteropneustes fossilis*; Locality—India. (8)
63. **P. ophiocephalus** Ali, 1960.
Host—*Channa punctatus* (= *Ophiocephalus punctatus*); Location—gills; Locality—India—Hyderabad, A.P. (27)
64. **P. planoratus** Kulkarni, 1935.
Host—*Clarius batrachus*, *Channa* sp. (= *Ophiocephalus*); Locality—India; Ceylon. (230)
65. **P. singhi** Ali, 1957.
Host—*Ompok bimaculatus* (= *Callichrous bimaculatus*); Location—stomach; Locality—India—Hyderabad, A.P., Lucknow, U.P., Patiala, Punjab. (26)

66. **P. spiculogubernaculus** Agrawal, 1958.
Host—*Heteropneustes fossilis*; Location—alimentary canal;
Locality—India—Allahabad, U.P. (Fish market). (2a)
67. **P. vittatusi** Sood, 1967.
Host—*Mystus vittatus*; Location—intestine; Locality—India—
Lucknow, U.P. (468)
68. **P. viviparus** Ali, 1957.
Host—*Mystus microphthalmus*; Location—stomach; Locality—
India—Hyderabad, A.P. (26)
- *69. **Spirocamallanus chauhani** Sahay, 1966.
Host—*Mystus cavasius*; Location—stomach; Locality—India—
Patna, Bihar. (405)
70. **S. vachai** Sinha and Sahay, 1965.
Host—*Eutropiichthys vacha*; Location—stomach; Locality—India
—Patna, Bihar. (457)
71. **Zeylanema fernandoi** Yeh, 1960.
Host—*Channa punctatus* (= *Ophiocephalus punctatus*); Location—
intestine; Locality—Sri Lanka. (539)
72. **Z. kulasiri** Yeh, 1960.
Host—*Anabas testudineus*, *Channa punctatus* (= *Ophiocephalus
punctatus*); Location—intestine; Locality—Sri Lanka. (539)
73. **Z. pearsei** Yeh, 1960.
Host—*Anabas testudineus*, *Rasbora daniconius*; Location—intestine;
Locality—India. (539)
74. **Neozeylanema bahli** Sahay and Sinha, 1966.
Host—*Anabas testudineus*; Location—intestine; Locality—India.
(410)

Family CUCULLANIDAE Cobbold, 1864.

Subfamily CUCULLANINAE Yorke and Maplestone, 1926.

75. **Cucullanus antipodeus** Baylis, 1932.
Host—*Mystus seenghala*, *Rhombosolea* sp.; Location—intestine;
Locality—India—Lucknow, U.P.; Newzealnd. (56)
76. **C. bulbosus** (Lane, 1916) Barreto, 1918.
Syn. *Bulbodacnitis bulbosa* Lane, 1916. *Dacnitis bulbosa* (Lane, 1916)
Tornquist, 1931.
Host—*Caranx melampygus*; Locality—Sri Lanka—Cheval Paar,
Gulf of Mannar. (237)

* Synonym of *Procamallanus gubernaculus* Khera, 1955 — Sood, 1968.

77. **C. callichroi** (Stewart, 1914) Barreto, 1922.
Syn. *Dacnitis callichroi* Stewart, 1914. *D. callicroi* (Stewart, 1914) Lane, 1916.
Host—*Ompok bimaculatus* (= *Callichrous bimaculatus*); Location—intestine; Locality—India—Lucknow, U.P. (490)
78. **C. pseudeutropi** Agrawal, 1967.
Host—*Clupisoma garua* (= *Pseudeutropius garua*); Location—intestine; Locality—India—Lucknow, U.P. (9)
79. **C. pangasius** Soota and Chaturvedi, 1971.
Host—*Pangasius pangasius*; Location—intestine; Locality—India—Mettur Dam, Madras. (480, 480a)
80. **Indocucullanus arbianse** Ali and Kalyankar, 1966.
Host—*Tachysurus maculatus*; Location—intestine; Locality—India—Bombay, Maharashtra. (31)
81. **I. jaiswali** Ali, 1957.
Host—*Puntius sarana* (= *Barbus sarana*); Location—intestine; Locality—India—Hyderabad, A.P. (26)
*Subfamily AMPHISAKINAE Chakravarty and Majumdar, 1959.
82. **Amphisakis bangalensis** Chakravarty and Majumdar, 1959.
Host—*Eutropiichthys vacha*; Location—intestine; Locality—India—Calcutta, W.B. (100)
Subfamily DACNITODINAE Yorke and Maplestone, 1926.
83. **Dichelyne wallagoni** Chakravarty and Majumdar, 1961.
Host—*Wallago attu* (Purchased); Location—intestine; Locality—India—Calcutta, W.B. (102)
84. **Paracucullanellus indicus** Agrawal, 1965.
Host—*Rita rita*; Location—intestine; Locality—India—Lucknow, U.P. (4)
Family THELAZIIDAE Skrjabin, 1915.
85. **Hepatinema karachiensis** Rasheed, 1964.
Host—*Scomberoides tala* (= *Chroinemus tala*); Location—liver; Locality—Pakistan—Karachi. (386)
86. **Heptochona stromatei** Rasheed, 1965.
Host—*Apolectus niger* (= *Stromateus niger*); Location—body cavity; Locality—Pakistan—Karachi. (388)
Family GNATHOSTOMATIDAE Lane, 1923.
Subfamily ECHINOCEPHALINAE Yamaguti, 1961.
87. **Echinocephalus multidentatus** Baylis and Lane, 1920.
Host—*Urogymnus asperrimus*; Locality—Sri Lanka (66)

* Validity of subfamily remains doubtful—authors.

88. **E. southwelli** Baylis and Lane, 1920.
Host—*Urogymnus asperrimus*; Locality—Sri Lanka (66)
89. **E. spinosissimus** (Linstow, 1905) Baylis and Lane, 1920.
Syn. *Echinocephalus uncinatus* Molin, 1858 (in part). *Cheiracanthus spinosissimus* Linstow, 1905.
Host—*Heterodontus philippi*, *Myliobatis equila*, *Trygon margarita*, *T.m. gigas*, *Trygon* sp., *Urolophus testaceus*; Locality—India—Chilka lake, Orissa; Hooghly, W.B.; Sri Lanka—Adriatic Gulf of Mannar; Australia; African Atlantic. (268)
90. **E. uncinatus** Molin, 1858.
Syn. *Cheiracanthus uncinatus* Linstow in Shipley and Hornell, 1904. *C. (Echinocephalus) uncinatus* Linstow, 1905. *Echinocephalus gracilis* Stossich in Shipley and Hornell, 1906. *E. aetobati* MacCallum, 1921.
Host—*Abalistes stellaris* (= *Balistes stellaris*), *Arbacia punctulata*, *Myliohatis nieuhofti*, *Pagrosomus* sp., *Pseudolabrus* sp., *Platycephalus* sp., *Sillaginodes* sp., *Suffalamen capistratus* (= *Balistes mitis*), *Trygon brucha*, *T. pastinaca*. Locality—Sri Lanka; , Australia; Woods Hole, U.S.A. (315)
- Family PHYSALOPTERIDAE Leiper, 1908.
Subfamily PHYSALOPTERINAE Stossich, 1898.
91. **Heliconema ahiri** Karve, 1941.
Host—*Anguilla bengalensis*; Locality—India. (212)
- (N)92. **Proleptus obtusus** Dujardin, 1845.
Syn. *Coronilla scillicola* Beneden, 1871. *Spiropterina scillicola* Linstow, 1901. *Proleptus scillicola* Lloyd, 1920.
Host—*Aetobatis narinari*, *Raja radians*, *Scyllium canicula*, *S. catulus*, *Squalus fornandinus* (= *Acanthias vulgaris*); Location—stomach, intestine; Locality—Atlantic; Sri Lanka (149)
93. **Paraleptus inglisi** Gupta and Sood, 1969.
Host—*Mastacembelus armatus*; Location—stomach, intestine; Locality—India—Lucknow, U.P. (183a)
94. **Pseudoproleptus alatae** (Majumdar, 1965) Johnson and Khera, 1966.
Syn. (T) *Notopteroides alatae* Majumdar, 1965.
Host—*Mastacembelus armatus*; Location—intestine; Locality—India—Calcutta, W.B. (286)
95. **P. notopteri** (Chakravarty and Majumdar, 1962) Johnson and Khera, 1966.
Syn. *Notopteroides notopteri* Chakravarty and Majumdar, 1962.
Host—*Notopterus notopterus*; Locality—India—Calcutta, W.B. (103)
96. **P. satendri** Sahay, 1966.
Host—*Notopterus notopterus*; Location—stomach; Locality—India—Ranchi Lake, Bihar. (404)

97. **P. vestibulus** Khera, 1955.

Host—*Mastacembelus armatus*; Location—intestine; Locality—India—Lucknow, U.P. (225)

Family SPIRURIDAE Oerley, 1885.

Subfamily ASCAROPHIDINAE Yamaguti, 1961.

98. **Parascarophis bharati** Agrawal, 1965.

Host—*Mastacembelus armatus*; Location—stomach; Locality—India—Assam. (4)

Subfamily BULBOCEPHALINAE Rasheed, 1966.

99. **Bulbocephalus inglisi** Rasheed, 1966.

Host—*Eleutheronema tetradactylum* (= *Polynemus tetradactylus*); Location—intestine; Locality—Pakistan—Karachi. (391)

Subfamily HABRONEMATINAE Chitwood and Wehr, 1932.

100. **Cyrnea (Procyrnea) chabaudi** Rasheed, 1965.

Host—*Parastromateus* sp.; Location—stomach; Locality—Pakistan—Karachi. (387)

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- *101. **Cestocephalus serratus** Rasheed, 1966.

Host—*Eleutheronema tetradactylum* (= *Polynemus tetradactylus*); Location—intestine; Locality—Pakistan—Karachi. (391)

Family RHABDOCHONIDAE Skrjabin, 1946.

Subfamily RHABDOCHONINAE Travassos and Pereira, 1928.

102. **Rhabdochona barbi** Karve, 1941.

Host—*Barbus kolus*; Location—intestine; Locality—India—Maharashtra. (212)

103. **R. bosei** Sahay, 1966.

Host—*Eutropiichthys vacha*; Location—intestine and stomach; Locality—India—Arrah, Gaya and Patna, Bihar. (403)

104. **R. dasi** Sahay and Prasad, 1965.

Host—*Ompok bimaculatus* (= *Callichrous pabda*); Location—intestine; Locality—India—Patna, Bihar. (409)

105. **R. garuai** Agrawal, 1965.

Host—*Clupisoma garua* (= *Pseudeutropius garua*); Location—intestine; Locality—India—Lucknow, U.P. (7)

*Rasheed, 1966 has not assigned any family and subfamily for this new genus but points out close relation to family spiruridae,

106. **R. ghaggari** Gupta and Sood, 1969.
Host—*Tor tor*; Location—intestine; Locality—India—Chāndigarh, Punjab. (183a)
107. **R. glyptothoracis** Karve and Naik, 1951.
Host—*Glyptothorax lonah*; Location—intestine; Locality—India—Poona, Maharashtra. (215)
- (T)108. **R. hospeti** Thapar, 1950.
Host—*Tor putitora* (= *Barbus tor*); Locality—India—Hospet, Mysore; Madras. (507)
109. **R. kashmirensis** Thapar, 1950.
Host—*Schizothoracichthys niger* (= *Schizothorax niger*); Locality—India—Kashmir. (507)
110. **R. mazeedi** Prasad and Sahay, 1965.
Host—*Eutropiichthys vacha*; Location—intestine; Locality—India—Patna, Bihar. (347)
111. **R. sarana** Karve and Naik, 1951.
Host—*Puntius sarana* (= *Barbus sarana*); Locality—India—Poona, Maharashtra. (215)
112. **R. singhi** Ali, 1957.
Host—*Glossogobius giurus*; Location—intestine; Locality—India—Hyderabad, A.P. (26)
113. **R. smythi** Agrawal, 1965.
Host—*Mystus vittatus*; Location—intestine; Locality—India—Lucknow, U.P. (7)

Subfamily SPINITECTINAE Skrjabin, 1946.

- *114. **Spinitectus armatus** Ali, 1957.
Host—*Mystus tengara*; Location—stomach; Locality—India—Hyderabad, A.P. (26)
- *115. **S. bengalensis** Chakravarty, Sain and Majumdar, 1961.
Host—*Notopterus notopterus*; Location—stomach; Locality—India—Calcutta, W.B. (106)
- *116. **S. corti** Moorthy, 1938.
Host—*Channa gachua* (= *Ophiocephalus gachua*); Location—stomach and intestine; Locality—India—Hyderabad, A.P.; Mysore. (323)
117. **S. indicus** Verma and Agrawala, 1932.
Host—*Clupisoma garua* (= *Pseudotropius garua*), *Eutropiichthys vacha*; Location—intestine; Locality—India—Allahabad, U.P. (519)

* Synonyms of *Spinitectus mastacembeli* Karve and Naik, 1951 - Sood, 1968. *Indian J. Helm.*, Lucknow, 20 (2): 83-110,

- *118. **S. komiyai** Sahay and Prasad, 1965.
Host—*E. vacha*; Location—intestine; Locality—India—Patna, Bihar. (408)
119. **S. longipapillatus** Ali, 1957.
Host—*Rita kuturnee* (= *R. hastata*); Location—stomach; Locality—India—Hyderabad, A.P. (26)
- †120. **S. major** Khera, 1956.
Host—*Mastacembelus armatus*; Location—intestine; Locality—India—Lucknow, U.P. (226)
121. **S. mastacembeli** Karve and Naik, 1951.
Host—*Mastacembelus armatus*, *Notopterus notopterus*; Location—intestine; Locality—Nagpur and Poona, Maharashtra. (215)
122. **S. minor** (Stewart, 1914) Baylis, 1932.
Syn. *Spiroptera denticulata* (Rudolphi) var. *minor* Stewart, 1914.
Host—*Wallago attu*; Location—stomach; Locality—India—Hyderabad, A.P.; Lucknow, U.P. (490)
123. **S. neilli** Karve and Naik, 1951.
Host—*Puntius neilli* (= *Barbus neilli*); Locality—India. (215)
124. **S. notopteri** Karve and Naik, 1951.
Host—*Notopterus notopterus*; Locality—India. (215)
125. **S. pseudentropii** Agrawal, 1965.
Host—*Clupisoma garua* (= *Pseudeutropius garua*), *Wallago attu*; Location—intestine; Locality—India—Lucknow, U.P. (7)
- †126. **S. singhi** Ali, 1957.
Host—*Mastacembelus armatus*; Location—stomach; Locality—India—Hyderabad, A.P. (26)
- †127. **S. thapari** Ali, 1957.
Host—*Notopterus notopterus*; Location—stomach; Locality—India—Hyderabad, A.P. (26)

Order PHILOMETRIDEA Yamaguti, 1961.

Family PHILOMETRIDAE Baylis and Daubney, 1926.

128. **Buckleyella buckleyi** Rasheed, 1963.
Host—*Scomberoides tala* (= *Chorinemus tala*); Location—mesentery; Locality—Pakistan—Karachi. (385)

* Syn. of *Spinitectus pseudentropii* Agrawal, 1965—Sood, 1968 (*loc. cit.*).

† Syn. of *Spinitectus mastacembeli* Karve and Naik, 1951—Sood, 1968, *Ind. J. Helm.*, Lucknow, 20(2): 83–110,

- *129. **Philometra hyderabadensis** Rasheed, 1963.
Location—*Wallago attu*; Locality—mesentery; Locality—India—Hyderabad, A.P. (385)
130. **P. lateolabracis** Yamaguti, 1935.
Host—*Epinephelus akara*, *Hemisphamphus georgii*, *Lateolabrax japonicus*, *Otolithus ruber*; Location—ovary; Locality—India—Malabar, Arabian Sea, Indian Ocean; Pakistan—Karachi, Arabian Sea, Indian Ocean; Japan. (535)
131. **P. polynemii** Rasheed, 1963.
Host—*Eleutheronema tetradactylum* (= *Polynemus tetradactylus*) Location—body cavity; Locality—India. (385)
132. **P. rajani** Mukherjee, 1963.
Host—*E. tetradactylum*; Location—ovary; Locality—India. (326)
133. **Philometroides denticulatus** Rasheed, 1965.
Host—*Otolithus ruber*, *Pristipoma hasta*; Location—swim bladder, body cavity; Locality—Pakistan—Karachi. (390)
134. **Thwaitea balistii** Rasheed, 1963.
Syn. *Philometra* sp. Thwaite, 1927.
Host—*Balistes* sp.; Location—eye; Locality—Sri Lanka. (385)

NEMATODES OF AMPHIBIANS

Order PHILOMETRIDEA Yamaguti, 1961.

Family PHILOMETRIDAE Baylis and Daubney, 1926.

135. **Philometra cylindracea** (Ward and Magath, 1917) Yorke and Maplestone, 1926.
Host—*Bufo melanostictus* (also in fishes in N. America); Locality—India—Assam. (525)

Order RHABDIASIDEA Railliet, 1916.

Family RHABDIASIDAE Railliet, 1915.

136. **Rhabdias escheri** Baer, 1930.
Host—*Uraeotyphlus oxyurus*; Location—body cavity; Locality—India—Palni Hills, Tamil Nadu. (35)
137. **R. rane** Walton, 1929.
Syn. *Rhabdias entomelas* (Leidy, 1851), of Travassos, 1930 e.p.
Host—*Acris grayllus*, *Bufo fowleri*, *B. terrestris*, *Hyla squirella*, *Lampropeltis* sp., *Pseudascris brimleyi*, *Rana catesbiana*, *R. clamitans*, *R. halecina*, *R. palustris*, *R. pipiens*, *R. sphenoccephala*, *R. sylvatica*, *Scaphiopus helbrookii*, *Thamnophis* sp.; Location—lungs; Locality—Bangladesh; Canada, U.S.A. (523)

* Rasheed, 1963, has splitted the genus into three subgenera,

Family STRONGYLOIDIDAE Chitwood and McIntosh, 1934.

- 138.
- Strongyloides bufonis**
- Rao and Singh, 1954.

Host—*Bufo melanostictus*; Locality—India. (383)

Order STRONGYLIDEA Diesing, 1851.

Family TRICHOSTRONGYLIDAE Leiper, 1912.

Subfamily OSWALDOCRUZIINAE Skrjabin and Schikhobalova, 1952.

- (N)139.
- Oswaldocruzia filiformis**
- (Goeze, 1782) Travassos, 1917.

Syn. *Ascaris filiformis* Goeze, 1782. *A. tenuissima* Schrank, 1788. *A. bufonis* Gmelin, 1790, e.p. not Schrank, 1788. *A. intestinalis* Gmelin, 1790. *A. setiformis* Goeze, in Zeder, 1800. *Cucullanus ranae* Gmelin, 1790. *Strongylus auricularis* Zeder, 1800, e.p. *S. dispar* Dujardin, 1845. *Oswaldocruzia insulae* Morishita, 1926.Host—*Anguis* sp., *Bombinator*, *Bufo formosanus*, *B. melanostictus*, *B. vulgaris*, *Hyla* sp., *Lissotriton* sp., *Molge* sp., *Pelobates* sp., *Rana rugosa*, *Salamandra* sp., [also in *Lacerta*]. Location—intestine; Locality—India—Nankouri, Great Nicobar Islands; Cosmopolitan. (172)

- 140.
- Oswaldocruzia indica**
- Lal, 1944.

Host—*Bufo melanostictus*, *Rana cyanophlyctis*; Locality—India—Lucknow, U.P. (233)

- 141.
- O. melanosticti**
- Gupta, 1960.

Host—*R. tigrina*; Location—small intestine; Locality—Bangladesh (182)

Order OXYURIDEA Weinland, 1858.

Family OXYURIDAE Cobbold, 1864.

Subfamily OXYURINAE Hall, 1916.

- 142.
- Neoprotozoophaga bufonis**
- Biswas and Chakravarty, 1963.

Host—*Bufo melanostictus*; Location—rectum; Locality—India—Barasat, near Calcutta, W.B. (80)

- 143.
- Propharyngodon ranae**
- Biswas and Chakravarty, 1963.

Host—*Rana tigrina*; Location—rectum; Locality—India—Dum Dum, near Calcutta, W.B. (80)

Subfamily COSMOCERCINAE Railliet, 1916.

- 144.
- Aplectana agubernaculum**
- Gupta, 1960.

Host—*Rana tigrina*; Location—small intestine; Locality—Bangladesh. (181)

- 145.
- Aplectana asiatica**
- Gupta, 1960.

Host—*Rana tigrina*, *Bufo melanostictus*; Location—small intestine; Locality—Bangladesh. (181)

146. **Cosmocerca kashmirensis** Fotedar, 1959.
Host—*Bufo viridis*; Location—rectum; Locality—India—Srinagar, Kashmir. (156)
147. **Cosmocercoides bufonis** Karve, 1944.
Host—*Bufo himalayanum*; Locality—India—Mukteswar, U.P. (213)
148. **C. multipapillata** Khera, 1958.
Host—*B. melanostictus*; Location—rectum; Locality—India—Nainital, U.P. (227)

Subfamily VELARIOCEPHALINAE Singh, 1958.

149. **Velariocephalus trilokii** Singh, 1958.
Host—*Rana cyanophlyctis*; Location—rectum; Locality—India—Kakinada, A.P. (455)

Subfamily OXYMATIINAE Railliet, 1916.

150. **Oxysomatium anurae** Biswas and Chakravarty, 1963.
Host—*Bufo melanostictus*; Location—rectum; Locality—India—Barasat, near Calcutta, W.B. (80)
151. **O. macintoshii** (Stewart, 1914) Karve, 1927.
Syn. *Oxysoma macintoshii* Stewart, 1914. **Oxysomatium macintoshii* var. *ranae* Sahay and Nath, 1966.
Host—*B. mauritanicus*, *B. melanostictus*, *B. stomaticus*, *B. viridis*, *Nectophrynoides vivipara*; Location—rectum; Locality—India—Lucknow, U.P.; Patna, Bihar; Burma—Rangoon; S. Sahara, Tanganyika. (490)
152. **O. srinagarensis** Fotedar, 1966.
Host—*Bufo viridis*; Location—rectum; Locality—India—Srinagar Kashmir. (157)
153. **O. stomatici** Biswas and Chakravarty, 1963.
Host—*Bufo stomaticus*; Location—rectum; Locality—India—Calcutta, W.B. (80)

Family HETERAKIDAE Railliet and Henry, 1914.

Subfamily SPINICAUDINAE Travassos, 1920.

154. **Africana bufonis** Biswas and Chakravarty, 1963.
Host—*Bufo melanostictus*; Location—intestine and rectum; Locality—India—Calcutta, Kalyani, Nadia, W.B. (80)

*According to the Code of Zoological Nomenclature, creation of varieties is neither advisable nor acceptable—authors,

155. **A. varani** Maplestone, 1931.

Host—*Rana hexadactyla* (and also in *Varanus monitor* see Reptiles);
Location—intestine and rectum; Locality—India—Dum Dum,
near Calcutta, Calcutta Zoo, W.B. (292)

Subfamily HETERAKINAE Railliet and Henry, 1912.

156. **Heterakis bufonis** Biswas and Chakravarty, 1963.

Host—*Bufo melanostictus*; Location—rectum; Locality—India—
Barasat, near Calcutta, W.B. (80)

- †(T)157. **Meteterakis andamanensis** Soota and Chaturvedi, 1970.

Host—*Bufo* sp.; Location—rectum; Locality—India—Mayabun-
der, Middle Andaman. (475)

158. **M. govindi** Karve, 1930.

Syn. *Spinicauda bufonis* Yamaguti, 1935; *Heterakis govindi* (Karve, 1930)
Baylis, 1936.

Host—*Bufo melanostictus*; Location—rectum; Locality—Burma—
Rangoon; Dacca, Bangladesh; China. (209)

Family KATHLANIIDAE Yorke and Maplestone, 1926.

Subfamily SPIRONOURINAE Yamaguti, 1961.

- (N)159. **Spiironoura brevispiculata** Baylis, 1935.

Host—*Rana hexadactyla*; Location—rectum; Locality—India—
Falta, 24-Parganas; Salt Lake, Calcutta, W.B.; Sri Lanka—
Colombo. (58)

- *160. **S. falcata** (Linstow, 1906) Baylis, 1936.

Syn. *Oxysoma fulcatum* Linstow, 1906; *Falcaustra fulcata* Lane, 1915; *F.*
kachugae Baylis and Daubney, 1922; *Spiironoura fulcatum* Yorke and Map-
lestone, 1926; *S. kachugae* Yorke and Maplestone, 1926.

Host—*Rana hexadactyla*, (also in Reptiles, see Reptiles) Locality
—India—? Calcutta, W.B.; Lucknow, U. P.; Sri Lanka—
Colombo. (270)

Order ASCARIDIDEA Yamaguti, 1961.

Family QUIMPERIIDAE Baylis, 1930.

161. **Gendria ranarum** Karve, 1944.

Host—*Rana tigrina*; Locality—India—Poona, Maharashtra. (213)

Family HETEROCHEILLIDAE Railliet and Henry, 1915.

Subfamily FILOCAPSULARIINAE Yamaguti, 1961.

162. **Amplicaecum cacopi** Chatterji, 1936.

Host—*Cacopis systoma*, *Rana tigrina*, Location—intestine; Locality
—Burma. (115)

† Inglis (1958) erected subfamily Meteterakinae.

* Chakravarty (1944) considers the species *brevispiculata* as a synonym of *falcata* hence he recorded it as *falcata* from *Rana hexadactyla* from Calcutta. But we do not agree with this Synonymy.

163. **A. ranae** Gupta, 1959.

Host—*R. cancrivora*, *R. tigrina*; Location—small intestine; Locality—Dacca, Bangladesh. (179)

Order SPIRURIDEA Diesing, 1861.

Family CAMALLANIDAE Railliet and Henry, 1915.

164. **Camallanus baylisi** Karve, 1930.

Host—*Rana tigrina*; Locality—India, Burma, Ceylon. (209)

165. **C. cyanophlyctis** Sahay 1966. emend.

Host—*R. cyanophlyctis*; Location—intestine; Locality—India—Patna, Bihar. (402)

166. **C. nodulosus** Gupta, 1959.

Host—*R. cyanophlyctis*; Location—small intestine; Locality—Dacca, Bangladesh. (180)

167. **C. ranae** Khera, 1956.

Host—*R. cyanophlyctis*; Location—intestine; Locality—India—Lucknow, U.P. (226)

168. **C. thapari** Gupta, 1959.

Host—*R. tigrina*; Location—small intestine; Locality—Dacca, Bangladesh. (180)

- (N)169. **Camallanides prashadi** Baylis and Daubney, 1922.

Host—*R. tigrina* (Also in Reptiles see Reptiles); Location—small intestine; Locality—India—Calcutta Zoo, W.B.; Nagpur, Maharashtra; Sri Lanka. (62)

Family PHYSALOPTERIDAE Leiper, 1908.

Subfamily PHYSALOPTERINAE Stossich, 1898.

- (T)170. **Abbreviata indica** Soota, *et al.*, 1969.

Host—*Bufo* sp.; Locality—India—Great Nicobar Island, Bay of Bengal. (486)

NEMATODES OF REPTILES

Order RHABDIASIDEA Railliet, 1916.

Family STRONGYLOIDIDAE Chitwood and McIntosh, 1934.

171. **Strongyloides mirzai** Singh, 1954.

Host—*Ptyas mucosus* (= *Zamenis mucosus*); Locality—India. (452)

Order TRICHURIDEA Yamaguti, 1961.

Family TRICHURIDAE Railliet, 1915.

172. **Capillaria longispicula** (Sonsino, 188).

Host—*Python molurus*; Locality—India. (465)

Order STRONGYLIDEA Diesing, 1851.

Family DIAPHANOCEPHALIDAE Travassos, 1920.

173. **Kalicephalus brachycephalus** Maplestone, 1931.
Host—*Ptyas mucosus* (= *Zamenis mucosus*); Location—intestine;
Locality—India—Calcutta Zoo, W.B. (292)
- (T)174. **K. elongatus** Maplestone, 1931.
Host—*Naja naja kaouthia* (= *N. tripudians*); Location—intestine;
Locality—India—Calcutta Zoo, W.B. (292)
175. **K. ersiliae** (Stossich, 1896) Yorke and Maplestone, 1926.
Syn. *Strongylus ersiliae* Stossich, 1896; *Sclerostomum ersiliae* Stossich, 1899;
Diaphanocephalus ersiliae Railliet and Henry, 1909.
Host—*Python molurus*; Locality—India; East Indies. (494)
- (N)176. **K. fimbriatus** (Ortlepp, 1923) Baylis, 1936.
Syn. *Kalicephalus willeyi* Linstow, 1908, not 1904; *Diaphanocephalus willeyi*
of Baylis and Daubney, 1922, and Daubney, 1923; *Occipitodonotus fimbriatus*
Ortlepp, 1923.
Host—*Bungarus fasciatus*, *Coluber* sp., *Vipera russellii* and *Vipera* sp.;
Location—duodenum and stomach; Locality—India—Assam;
Calcutta Zoo, W.B.; Dibrugarh, Assam; Java; South Africa. (331)
- (N)177. **K. indicus** Ortlepp, 1923.
Syn. *Kalicephalus bengalensis* Maplestone, 1929; *K. parvus* Maplestone, 1932;
not Ortlepp, 1923; *K. maplestonei* Chatterji, 1935.
Host—*Dinodon* sp., *Dryophis* sp., *D. mycterizans*, *Elaphe* sp., *Naja hannah*,
N. naja kaouthia (= *Naja tripudians*), *Natrix piscator* (= *Tropidonotus piscator*),
Natrix sp., *Ptyas mucosus* (= *Zamenis mucosus*), *Varanus monitor* (= *Varanus bengalensis*),
Zaocys sp.; Location—stomach; Locality—India—Calcutta Zoo, W.B.; China; London;
South Africa. (331)
- (N)178. **Kalicephalus longior** Maplestone, 1931.
Syn. (T) *Kalicephalus gongylophis* Maplestone, 1931; *K. radicus* Bhalerao,
1931.
Host—*Bungarus fasciatus*, *Elaphe flavolineata*, *Eryx conicus* (= *Gongylophis conicus*),
E. johnii, *Naja hannah*, *N. naja kaouthia* (= *Naja tripudians*), *Trimeresurus jerdoni*,
T. mucrosquamatus; Location—intestine, rectum; Locality—India—Aligarh, U.P.,
Calcutta Zoo, W.B., Mukteswar, U.P.; China; Malaya. (292)
- *179. **K. minutus** (Baylis and Daubney, 1922) Ortlepp, 1923.
Syn. (T) *Diaphanocephalus minutus* Baylis and Daubney, 1922; *Kalicephalus naiae*
Maplestone, 1931.
Host—*Bungarus fasciatus*, *Naja melanolenca*, *N. naja kaouthia* (= *Naja tripudians*);
Location—intestine; Locality—India—Calcutta Zoo, W.B.; Africa. (62)

* Yeh (1956) proposed *Kalicephaloides* for this species.

180. **K. schadi** Ogden, 1966.
Host—*Varanus monitor*; Locality—Host died in London Zoo, whose geographical distribution is in India and Sri Lanka. (329)
- (N)181. **K. willeyi** Linstow, 1904.
Syn. *Diaphanoccephalus willeyi* Railliet and Henry, 1909, not Baylis and Daubney, 1922, not Daubney, 1923.
Host—*Bungarus fasciatus*, *Elaphe helena* (= *Coluber helena*), *Typhlops braminus*, *Vipera russellii*; Location—intestine, oesophagus and stomach; Locality—India—Calcutta Zoo, W.B.; Sri Lanka—Colombo, Horana and Weligatta. (267)
- Order OXYURIDEA Railliet, 1906.
Family ATRACTIDAE Travassos, 1919.
Subfamily ATRACTINAE Railliet, 1917.
- *182. **Atractis granulosa** (Railliet and Henry, 1912) Thapar, 1925.
Syn. *A. dactyluris* (Rud., 1819).
Host—*Testudo elongata*, *Testudo* sp.; Location—intestine; Locality—India—Bengal. (? Bara dighi Jalpaiguri, W.B.). (365)
- (N)183. **A. opeatura** Leidy, 1891.
Syn. *Atractis* (*Ascaris*) *opeatura* Leidy, 1891; *A. subulata* Leidy, in Stiles and Hassall, 1894; *A. cruciata* Linstow, 1902.
Host—*Cyclura*, *Iguana*, *Baeolopha*; Location—intestine; Locality—India—Calcutta Zoo, W.B.; New Providence Isl. (246)
184. **A. ortleppi** Thapar, 1925:
Host—*Podocnemis unifilis*; Locality—? India. (505)*
- Family OXYURIDAE Cobbold, 1864.
Subfamily OXYURINAE Hall, 1916.
185. **Pharyngodon frenatusi** Gupta, 1959.
Host—*Hemidactylus frenatus*; Location—large intestine; Locality—Dacca, Bangladesh. (178a)
186. **P. hindlei** Thapar, 1925.
Host—*Tiligua scineoides*; Location—intestine; Locality—? India; Zoological Society, London. (505)
187. **P. kuntzi** Gupta, 1959.
Host—*Gekko gekko*; Location—large intestine; Locality—Dacca, Bangladesh. (178a)
188. **Thelandros alatus** Wedl, 1862.
Syn. *Oxyuris uromasticola* Galeb, 1889.
Host—*Acontiar* sp., *Agema* sp., *Anniella* sp., *Uromastix hardwicki*, *U. spinipes*, *Trachysaurus*, etc.; Location—caecum; Locality—

* Gallego Berenguer (1949) considers this species a synonym of *Atractis farciolata* Gendre 1909.

- India—Bikaner, Rajasthan; Algeria; Egypt; Zoological Society, London. (528)
189. **T. almoriensis** Karve, 1949.
Host—*Agama tuberculata*; Locality—India—Almora, U.P. (214)
190. **T. aspiculus** Khera, 1961.
Host—*Calotes versicolor*; Location—rectum; Locality—India—Gorakhpur, U.P. (228)
191. **T. basiri** Johnson, 1966.
Host—*Calotes versicolor*; Locality—India. (204a)
192. **T. baylisi** Chatterji, 1935.
Host—*Uromastix hardwicki*; Locality—India. (114)
193. **T. calotis** Johnson, 1966.
Host—*Calotes versicolor*; Locality—India—Jodhpur, Rajasthan. (204)
- (T)194. **T. kassauli** Chatterji, 1935.
Host—*Uromastix hardwicki*; Locality—India; Burma—Rangoon. (114)
- (N)195. **T. maplestonei** (Chatterji, 1933) Baylis, 1936.
Syn. *Oxyuris acanthura* Linstow, 1904, not Molin, 1859; *Parapharyngodon maplestoni* Chatterji, 1933. (N) *Thelandros hemidactylus* Patwardhan, 1935.
Host—*Hemidactylus flaviviridis*, *Uromastix hardwicki*; Location—intestine and rectum; Locality—India—Bagmari, Calcutta, W.B.; Bangalore, Mysore; Burdwan, W.B.; Nagpur and Poona, Maharashtra; Burma; Sri Lanka—Colombo. (113)
- *196. **T. micruris** Rauther, 1918.
Host—*Uromastix hardwicki*; Locality—India? (392)
197. **T. taylori** Chatterji, 1935.
Host—*Uromastix hardwicki*; Locality—(Locality unknown.) (114)
198. **Neoprotozoophaga natrixi** Biswas and Chakravarty, 1963.
Host—*Natrix stolata*; Location—rectum; Locality—India—Dum Dum, near Calcutta, W.B. (80)

Subfamily COSMOCERCINAE Railliet, 1916.

199. **Cosmocercoides rickae** Ogden, 1966.
Host—*Creatophora tennenti*; Locality—Ceylon—Gammaduwa. (329)
200. **Neopharyngodon gekko** Chakravarty and Bhaduri, 1948.
Host—*Gekko gekko*; Locality—India—Calcutta, W.B. (99)

* Indian record of the species is doubtful. Baylis (1936) considered Thapar's specimen of *alatus* as conspecific to *micruris*. Johnson (1967), however, considers the specimens as belonging to *alatus*.

Subfamily SYPHACIINAE Railliet, 1916.

- (N)201. **Aleauris rifkii** Akhtar, 1947.
Host—*Agama* sp.; Locality—Afghanistan—Kabul. (14)
202. **Pseudalaeuris inflatocervix** (Akhtar, 1937) Walton, 1942.
Syn. *Tachygonetria inflatocervix* Akhtar, 1937; *Mehdiella inflatocervix* (Akhtar 1937) Skrjabin *et al.*, 1951.
Host—*Testudo ibera*; Locality—Afghanistan—Kabul. (10)
- *203. **Tachygonetria expansa** Rees, 1935.
Host—*Testudo horsfieldi*; Locality—India. (394)
204. **T. indica** Agrawal, 1966.
Host—*Testudo*; Locality—India—Lucknow, U.P. (8a)
205. **T. torticollis** Rees, 1935.
Host—*Testudo horsfieldi*; Locality—India; Tadzhikistan, U.S.S.R. (394)

Family HETERAKIDAE Railliet and Henry, 1914.

Subfamily HETERAKINAE Railliet and Henry, 1912.

- †206. **Meteterakis baylisi** Inglis, 1958.
Host—*Ceratophora stoddarti*, *C. tennenti*; Locality—Sri Lanka—Gammaduwa and Hagkala. (195)
207. **M. cophotis** (Baylis, 1935) Inglis, 1958.
Syn. *Spinicauda cophotis* Baylis, 1935.
Host—*Cophotis ceylonica*, *Lyriocephalus scutatus*; Locality—Sri Lanka—Gammaduwa. (58)
208. **M. louisi** Inglis, 1958.
Host—Tree lizard; Location—stomach; Locality—India. (195)
209. **M. mabuyae** (Chakravarty, 1944) Inglis, 1958.
Syn. (T) *Africana mabuyae* Chakravarty, 1944.
Host—*Mabuya carinata*; Location—intestine; Locality—India—Calcutta, W.B. (98)

Subfamily STRONGYLURINAE Freitas, 1956.

210. **Strongyluris bengalensis** Chakravarty, 1936.
Host—*Calotes versicolor*; Locality—India. (93)
- (T, N)211. **S. calotis** Baylis and Daubney, 1923.
Syn. *Strongyluris brevicaudata* of Hsu and Hoeppli, 1931.
Host—*Calotes jubatus*, *C. nigrilabris*, *C. versicolor*, *Japaraura splendida*;
Location—rectum and intestine; Locality—India—Burdwan and

* Transferred to *Pseudalaeuris* by Walton, 1942.

† Inglis (1958) erected subfamily Meteterakinae.

Calcutta, W.B.; Sonaphurian (Tikarpara) Dhenkanal Dist., Orissa; Sri Lanka—Pattipola. (63)

- (T)212. **S. chamaeleonis** Baylis and Daubney, 1922.

Host—*Chamaeleon chamaeleon* (= *Chamaeleon vulgaris*); Locality—India—Calcutta Zoo, W.B. (62)

213. **S. karawirensis** Karve, 1938.

Host—*Calotes versicolor*; Locality—India—Kolhapur, Maharashtra (211)

Subfamily SPINICAUDINAE Travassos, 1920.

214. **Spinicauda eryxi** Agrawal, 1966.

Host—*Eryx* sp.; Locality—India—Lucknow, U.P. (8a)

215. **Africana varani** Maplestone, 1931.

Host—*Varanus monitor* (= *Varanus bengalensis*); Location—rectum; Locality—India—Calcutta Zoo, W.B. (292)

216. **Cheloniheterakis feae** (Parona, 1889) Yamaguti, 1961.

Syn. *Heterakis feae* Parona, 1889.

Host—*Testudo* sp.; Location—intestine; Locality—Burma—Jado Village, Mt. Carin, Asiwi Cheha Dist. (342)

Family KATHLANIIDAE Yorke and Maplestone, 1926.

Subfamily KATHLANIINAE Lane, 1914.

217. **Kathlania leptura** (Rudolphi, 1819) Travassos, 1918.

Syn. *Ascaris leptura* Rudolphi, 1819; *Oxysoma lepturum* Schneider, 1866; (T), *Kathlania kathlena* Lane, 1914; *Pseudoheterakis leptura* Travassos, 1917.

Host—*Caretta* sp. (= *Thalassochelys*), *Chelonia mydas* (= *Testudo mydas*); Location—intestine; Locality—Sri Lanka; Europe. (401)

218. **Tonaudia tonaudia** (Lane, 1914) Travassos, 1919.

Syn. (T) *Kathlania tonaudia* Lane, 1914.

Host—*Chelonia mydas*; Location—intestine; Locality—Sri Lanka. (235)

Subfamily CISSOPHYLLINAE Yamaguti, 1961.

- *219. **Cissophyllus layerani** Railliet and Henry, 1912.

Host—*Testudo emys*; Location—intestine; Locality—India—? Assam; Burma. (365)

* Locality not given by Railliet and Henry, but this species of tortoise occurs in Assam and Burma.

Subfamily SPIRONOURINAE Yamaguti, 1961.

(N)220. **Spironoura falcata** (Linstow, 1906).

Syn. *Oxysoma falcatum* Linstow, 1906; *Falcaustra falcata* Lane, 1915; *F. kachugae*, of Baylis and Daubney, 1922; *Spironoura falcatum*, of Yorke and Maplestone, 1926; *S. kachugae* Yorke and Maplestone, 1926.

Host—*Geoemyda* (= *Nicoria*), *Trijuga trijuga*, *Kachuga kachuga* (= *Kachuga lineata*). Also in *Rana hexadactyla* (see Amphibians); Location—intestine; Locality—India—Calcutta, W.B.; Lucknow, U.P.; Sri Lanka—Colombo. (270)

221. **Spironoura kachugae** (Stewart, 1914).

Syn. *Atractis kachugae* Stewart, 1914; *Monhystrides kachugae* (Stewart, 1914) Baylis, 1936.

Host—*Kachuga kachuga* (= *Kachuga lineata*); Location—intestine; Locality—India—Lucknow, U.P. (490)

222. **S. onama** Karve, 1927.

Host—*Morenia ocellata*, *Testudo emys*; Location—rectum; Locality—Burma—Rangoon. (207)

(T,N)223. **S. rangoonica** Chatterji, 1935.

Host—*Morenia ocellata*; Locality—Burma—Rangoon. (116)

224. **S. stewarti** (Baylis and Daubney, 1922).

Syn. *Falcaustra stewarti* Baylis and Daubney, 1922; *Spironoura araxiana* Yorke and Maplestone, 1926.

Host—*Hardella thurgi*; Locality—India—Siripur, Saran Dist., Bihar, Ferozepur, Punjab. (62)

225. **S. testudinis** (Baylis and Daubney, 1922).

Syn. *Falcaustra testudinis* Baylis and Daubney, 1922.

Host—*Testudo elongata*; Locality—India—Tura, Garo Hills, Assam. (62)

Subfamily ZANCLOPHORINAE Yamaguti, 1961.

(T,N)226. **Zanclophorus annandalei** Baylis and Daubney, 1922.

Host—*Testudo travancorica*; Location—stomach; Locality—India—Western Ghat, Cochin, Kerala. (62)

(T)227. **Z. kempfi** Baylis and Daubney, 1922.

Host—*T. elongata*; Location—intestine; Locality—India—Baradighi, Jalpaiguri, N. Bengal; Tura, Garo Hills, Assam. (62)

Order ASCARIDIDEA Yamaguti, 1961.

Family ASCARIDIDAE Blanchard, 1849.

Subfamily ASCARIDINAE Lane, 1923.

228. **Ophidascaris ajgaris** Khera, 1956.

Host—*Python molurus*; Location—mouth and body cavity; Locality—India—Lucknow, U.P. (226)

(N)229. **O. filaria** (Dujardin, 1845) Baylis, 1921.

Syn. *Ascaris filaria* Dujardin, 1845; *A. rubicunda* Schneider, 1866; *A. infundibulicola* Linstow, 1903.

Host—*Bitis* sp., *Boaedon* sp., *Aspidites*, *Dasypeitis*, *Naja* sp., *Python molurus*, *Python* sp., *Varanus* sp., *Astrophis* sp.; Locality—India—Calcutta Zoo, Haridedpur, Tollygunj, Calcutta, W.B.; Pondicherry, Trivandrum, Kerala; Africa; Australia; China; Malaya; Nepal. (149)

(N)230. **O. gestri** (Parona, 1889) Baylis, 1921.

Syn. *Ascaris gestri* Parona, 1889;

Host—*Natrix piscator* (= *Tropidonotus piscator*); Location—stomach; Locality—India—Botanical Garden, Shibpur, Howrah, W.B.; Dibrugarh, Assam; Burma—Northern Tenasserim. (341)

231. **O. naiae** (Gedoelst, 1916).

Syn. *Ascaris naiae* Gedoelst, 1916.

Host—*Bungarus bungarus*, *B. fasciatus*, *Bungarus* sp., *Naja naja kaouthia* (= *Naja tripudians*); Locality—India—Calcutta Zoo, W.B.; Dibrugarh, Assam; Suraghat; Africa—Belgian Congo; Sri Lanka. (166)

(T, N)232. **O. piscatori** Soota and Chaturvedi, 1970.

Host—*Natrix piscator*; Location—stomach; Locality—India—Birati, 24-Parganas, W.B. (476)

(N)233. **Polydelphis anoura** Dujardin, 1845.

Syn. *Ascaris pythons* Retzius, 1830 (part), of Railliet and Henry, 1910; *A. anoura* Creplin, 1848; *A. attenuata* Molin, 1858, of Linstow, 1899; *A. attenuata* Molin, 1858, of Stossich, 1896; *A. (Polydelphis) attenuata* Gedoelst, 1916.

Host—*Python molurus*, *P. reticulatus*, *P. sehae*, *Bitis* sp., *Caronella* sp.; *Coluber* sp.; *Drymobius* sp.; *Heterodon* sp.; *Ptyas* sp.; Location—stomach; Locality—India—Kichha, Naini Tal, U.P.; Nepal Tarai; Africa; America; Australia; China. (149)

234. **P. attenuata** (Molin, 1858) Gedoelst, 1916.

Syn. *Ascaris attenuata* Molin, 1858; *A. rubicunda* Schneider, 1866.

Host—*Python molurus*, *P. reticulatus*, *P. sehae*, *Bitis* sp., *Coluber* sp., *Vipera* sp.; Locality—India—Madras; Sri Lanka; Africa; China; Europe; Malaya; Padua. (315)

235. **P. brachycheilos** (Linstow, 1906) Baylis, 1936.

Syn. *Ascaris brachycheilos* Linstow, 1906.

Host—*Natrix piscator* (= *Tropidonotus asperimus*); Location—intestine; Locality—Sri Lanka—Colombo. (270)

236. **P. oculata** (Linstow, 1899) Railliet and Henry, 1910.

Syn. *Ascaris oculata* Linstow, 1899.

Host—*Python molurus*, *P. reticulatus*, *P. sehae*; Locality—India—Digboi, Lakhimpur, Assam; Africa; Malaya; Philippine. (262)

237. **P. rotundicaudata** (Linstow, 1904) Baylis, 1936.

Syn. *Ascaris rotundicaudata* Linstow, 1904.

Host—*Calotes calotes* (= *Calotes ophioniachus*); Location—intestine and stomach; Locality—Sri Lanka—Colombo. (267)

238. **P. sewelli** Baylis and Daubney, 1922.

Host—*Bungarus fasciatus*, *Natrix piscator* (= *Tropidonotus piscator*), *N. stolata* (= *Tropidonotus stolatus*), *Coelopeltis monspessulana*; Locality—India—Dibrugarh and Lakhimpur, Assam, Deolali area Nasik, Maharashtra; Sri Lanka; Israel. (62)

Subfamily ASCARIDIINAE Travassos, 1919.

239. **Ascaridia frenetusi** Gupta and Jehan, 1969.

Host—*Hemidactylus frenetus*; Location—intestine; Locality—India—Lucknow, U.P. (182a)

Family HETEROCHEILLIDAE Railliet and Henry, 1915.

Subfamily HETEROCHEILLINAE Railliet and Henry, 1912.

- (T, N)240. **Typhlophoras lamellaris** Linstow, 1906.

Host—*Gavialis gangeticus*; Location—stomach; Locality—India—Calcutta Zoo, W.B. (272)

Subfamily FILOCAPSULARIINAE Yamaguti, 1961.

241. **Amplicaecum iguanae** Wahid, 1961.

Host—*Iguana* sp.; Location—intestine; Locality—India. (522)

242. **A. monitor** Khera, 1956.

Host—*Varanus monitor*; Location—stomach; Locality—India—Lucknow, U.P. (226)

- (T, N)243. **A. varani** Baylis and Daubney, 1922.

Host—*V. salvator*, *V. rubicollis*; Location—intestine, stomach; Locality—India—Allahabad, U.P.; Africa; North Borneo. (62)

- *244. **Dujardinascaris dujardini** (Travassos, 1920) Baylis, 1947.

Syn. *Dujardinia helicina* (Molin, 1850) Gedoelst, 1916, of Baylis, 1923; *D. baylisi* Travassos, 1933.

Host—*Crocodilus porosus*; *C. cataphractus*; *C. niloticus*; Locality—India—Port Canning, Calcutta, W.B.; Africa. (512)

245. **D. woodlandi** (Baylis, 1923) Baylis, 1947.

Syn. *Dujardinia woodlandi* Baylis, 1923.

Host—*Gavialis gangeticus*; Location—stomach; Locality—India. (52)

* *Dujardinia helicina*, recorded by Baylis (1923, 1936) was synonymized with *Dujardinascaris dujardini* by Yamaguti (1961).

- (N)246. **Multicaecum agile** (Wedl, 1861) Baylis, 1923.
Host—*Crocodilus cataphractus*, *C. niloticus*, *Crocodilus* sp.; Location—stomach; Locality—India—Calcutta Zoo, W.B.; Africa. (528)
247. **Polycaecum gangeticum** Maplestone, 1930.
Host—*Gavialis gangeticus*; Location—intestine; Locality—India—Calcutta Zoo, W.B. (291)
248. **Teranova quadrata** (Linstow, 1904) Mosgovoy, 1951.
Syn. *Ascaris quadrata* Linstow, 1904.
Host—*Crocodilus porosus*; Location—stomach; Locality—Sri Lanka—Bolgoda. (267)

Subfamily GOEZIINAE Yamaguti, 1961.

249. **Goezia gavialidis** Maplestone, 1930.
Host—*Gavialis gangeticus*; Location—stomach; Locality—India—Calcutta, W.B. (291)

Order SPIRURIDEA Diesing, 1861.

Family SPIRURIDAE Oerley, 1885.

Subfamily SPIROXYINAE Baylis and Lane, 1920.

- (T)250. **Spiroxys annulata** Baylis and Daubney, 1922.
Syn. *Spiroxys torquata* Karve, 1928.
Host—*Chitra indica*, *Lissemys punctata granosa* (= *Emydagranosa intermedia*), *Trionyx cartilagineus*; Location—stomach; Locality—India—Ludhiana, Punjab; Nagpur, Maharashtra. (62)
251. **S. gangetica** Baylis and Lane, 1920.
Host—*Trionyx gangeticus*; Locality—India—Ganges delta. (66)
252. **S. gubernae** Chakravarty and Majumdar, 1959.
Host—*Chitra indica*; Locality—India. (101)

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253. **Spiroptera triangulum** Linstow, 1904.
Host—*Calotes ophiomachus*; Location—body cavity; Locality—Sri Lanka—Colombo. (267)

Family PHYSALOPTERIDAE Leiper, 1908.

- (N)254. **Abbreviata achari** (Mirza, 1935).
Syn. *Physaloptera achari* Mirza, 1935.
Host—*Calotes versicolor*; Location—stomach; Locality—India—Hyderabad, A.P.; Tikarpara, Orissa. (307)

- (T)255. **A. kolayatensis** Soota and Chaturvedi, 1969.
Host—*Varanus monitor*; Location—intestine; Locality—India—Kolayat, Bikaner, Rajasthan. (474)
256. **A. paradoxa** (Linstow, 1908) Schulz, 1927.
Syn. *Physaloptera paradoxa* Linstow, 1908; *Leptosoma varani* Monnig, 1924.
Host—*Varanus albigularis*, *Varanus* sp.; Location—stomach; Locality—India—Hyderabad, A.P.; S. Africa. (275)
- (N)257. **A. varani** (Parona, 1889) Schulz, 1927.
Syn. *Physaloptera varani* Parona, 1889; *P. quadrovira* Leiper, 1908.
Host—*Varanus indicus*, *V. monitor* (= *V. bengalensis*), *Chamelion vulgaris*, *Cerastes cornutus*, *Sceloporus undulatus*, *Varanus griseus*, *Zaocys dhumnadis*; Location—stomach; Locality—India—Barkuda, Chilka Lake, Orissa; North East India; Burma; Sri Lanka; Bou—Sadda; China; N. America. (342)
258. **Thubunaea asymmetrica** Baylis, 1930.
Host—*Mabuya maculilabris*; Location—stomach; Locality—India? Africa—Uganda. (55)
- (T)259. **T. baylisi** Akhtar, 1939.
Host—*Agma* sp.; Location—stomach; Locality—Afghanistan. (12)
- *260. **T. dactyluris** Karve, 1933.
Host—*Calotes versicolor*, *Hemidactylus flaviviridis*; Location—stomach and intestine; Locality—India—Nagpur and Poona, Maharashtra. (211)
261. **T. mirzai** Narayan, 1941.
Host—*Lycodon aulicus*; Locality—India. (328)
262. **T. quadridentata** Khera, 1951.
Host—*Hemidactylus flaviviridis*; Location—stomach, duodenum; Locality—India—Lucknow, U.P. (220)
Family GNATHOSTOMATIDAE Lane, 1923.
Subfamily TANQUINAE Yamaguti, 1961.
- (N)263. **Tanqua anomala** (Linstow, 1904) Baylis, 1916.
Syn. *Heterakis anomala* Linstow, 1904.
Host—*Natrix piscator*, Mud snake, *Hamalopsis buccata*, green snake; Locality—India—Calcutta Zoo, W.B.; Manbhum, Bihar; Sri Lanka; Thailand. (267)
- (N)264. **T. tiara** (Linstow, 1879) Blanchard, 1904.
Syn. *Ascaris tiara* Linstow, 1879; *Ctenocephalus tiara* Linstow, 1904; *Tetradens tiara* Linstow, 1904.
Host—*Varanus monitor* (= *Varanus bengalensis*), *V. flavescens*, *V. nebulones*, *V. niloticus*, *V. salvator*; Locality—India—Calcutta Zoo,

* It seems a synonym of *T. asymetrica* as pointed out by Baylis (1939). These two species do not show any remarkable difference.

W.B.; Lucknow, U.P.; Sri Lanka—Colombo; Africa; Asia; Australia; Natal. (256)

Family CAMALLANIDAE Railliet and Henry, 1915.

- (T)265. **Camallanus kachugae** Baylis and Daubney, 1922.
Host—*Kachuga smithi*; Locality—India—Ferozepur, Punjab. (62)
266. **Camallanides piscatori** Khera, 1956.
Host—*Natrix piscator*; Location—intestine; Locality—India—Lucknow, U.P. (226)
- (N)267. **C. prashadi** Baylis and Daubney, 1922.
Host—*Bungarus fasciatus*, *Naja hannah*, *Ptyas mucosus* (also in amphibia, *Rana tigrina*); Locality—India—Calcutta Zoo, W.B.; Nagpur, Maharashtra; Sri Lanka. (62)
268. **C. ptyas** Khera, 1956.
Host—*Ptyas mucosus*; Location—intestine; Locality—India—Lucknow, U.P. (226)

Family CUCULLANIDAE Cobbold, 1864.

269. **Cucullanus hardellus** Khera, 1956.
Host—*Hardella thurgi*; Location—intestine; Locality—India—Gomati River, Lucknow, U.P. (226)
270. **C. serratus** (Lane, 1916) Barreto, 1918.
Syn. *Serradacnitis serratus* Lane, 1916.
Host—*Trionyx gangeticus*; Location—gut; Locality—India. (237)
271. **Dichelyne trionyx** Chakravarty and Majumdar, 1961.
Host—*Trionyx gangeticus*; Location—intestine; Locality—India—Calcutta, W.B. (Purchased). (102)

Order FILARIDEA Yamaguti, 1961.

Family FILARIIDAE Claus, 1885.

Subfamily DICHEILONEMATINAE Wehr, 1935.

272. **Hastospiculum indicum** Yamaguti, 1961.
Syn. *Hastospiculum varani* (Mirza and Basir, 1939), not Skrjabin, 1923; *Setarospiculum varani* Mirza and Basir, 1939.
Host—*Varanus indicus*; Locality—India ? (311)
- (N)273. **H. macrophallos** (Parona, 1889) Baylis, 1930.
Syn. *Filaria macrophallos* Parona, 1889; *Hastospiculum spinigerum* Chandler, 1929.
Host—*Varanus monitor*, *V. salvator*, *V. flavescens*, *V. spinigerum*, *V. nebulosus*, *V. niloticus*; Locality—India—Calcutta Zoo, W.B.; Car Nicobar, Burma, Annam; Equatorial Africa. (341)

274. **H. varani** Skrjabin, 1923.

Host—*V. indicus*, *V. griseus*; Locality—India; Russian Türkistan. (461)

Subfamily APROCTINAE Yorke and Maplestone, 1926.

275. **Saurositus indicus** Deshmukh and Ali, 1965.

Host—*Calotes versicolor*; Location—body cavity; Locality—India—Aurangabad, Maharashtra. (135)

Family DIPETALONEMATIDAE Wehr, 1935.

Subfamily SPLENDIDOFILARIINAE Chabaud and Choquet, 1953.

276. **Conspiculum flavescens** (Castellani and Willey, 1904) Baylis, 1939.

Syn. *C. quindiceus* Pandit, Pandit and Iyer, 1929.

Host—*Calotes versicolor*; Locality—India—Madras; Sri Lanka—Colombo. (91)

Order PHILOMETRIDEA Yamaguti, 1961.

Family DRACUNCULIDAE, Leiper, 1912.

277. **Dracunculus medinensis** (Linnaeus, 1758) Gallandat, 1773.

Syn. *Gordius medinensis* Linnaeus, 1758; *Vena medinensis* Gallandat, 1773; *Dracunculus graecorum* Gruner, 1777; *Filaria medinensis* Gmelin, 1790; *Furia vena medinensis* Modeer, 1795; *Filaria tropica* Rudolphi, 1809; *Vermis medinensis* Diesing, 1851; *Filaria aethiopica* Valenciennes, 1856; *Dracunculus aethiopicus* Diesing, 1861; *Filaria guineensis* Dunlison, 1893; *Vermiculus capillaris* Dunlison, 1895; *Microfilaria medinensis* Neumanna and Mayer, 1914; *Fuellebornius medinensis* Faust, 1929.

Host—*Varanus* sp., Snake, also in Man, domestic and wild mammals. See Mammals; Locality—India—Andaman Island; Allahabad, U.P.; Burma; French Indochina. (253)

Subfamily MICROPLEURINAE Baylis and Daubney, 1922.

278. **Micropleura indica** Khera, 1951.

Host—*Trionyx gangeticus*; Location—body cavity; Locality—India—Lucknow, U.P. (218)

279. **M. trionyx** Agrawal, 1966.

Host—Reptile? (*Trionyx* sp.); Location—body cavity; Locality—India—Lucknow, U.P. (8a)

- (T)280. **M. vivipara** Linstow, 1906.

Host—*Gavialis gangeticus*; Locality—India—Calcutta Zoo, W.B. (272)

SPECIES SEDIS INCERTAE

281. **Filaria haje** Wedl, 1862.
Host—*Naja haje*, *N. naja kaouthia* (= *Naja tripudians*), *Bungarus fasciatus*, *Uraeus haje*; Locality—India, Calcutta Zoo, W.B.; Egypt. (528)
282. **F. tuberosa** Linstow, 1906.
Host—*Mahua carinata*; Locality—Sri Lanka—Colombo. (270)
283. **F. emmae** Stossich, 1897.
Host—*Galotes emma*; Locality—Burma. (495)

NEMATODES OF BIRDS

Order TRICHURIDEA Yamaguti, 1961.

Family TRICHURIDAE Railliet, 1915.

Subfamily CAPILLARINAE Railliet, 1915.

284. **Capillaria annulata** (Molin, 1858) Cram, 1926.
Syn. *Capillaria semitzres* Zeder, 1803 ep.; *Trichosomum strumosum* Reibisch, 1893; *Trichosoma delicatissimum* Gedocst, 1903; *Capillaria alata* Graham, Thorp and Hectorne, 1929.
Host—*Chrysolophus*, *Colinus*, *Gallus*, *Lyrurus*, *Meleagris*, *Numida*, *Perdix*, *Phasianus*, *Syrnaticus*, *Tetrastes* [= *Bonasa* (? = *Bonasia*)]; Locality—India?; America; Asia; Europe. (315)
285. **C. carbonis** (Rudolphi, 1819) Travassos, 1915.
Syn. *Trichosoma carbonis* Rudolphi, 1819.
Host—*Phalacrocorax carbo*; Locality—India? ; Asia; Europe. (401)
286. **C. columbae** (Rudolphi, 1819) Travassos, 1915.
Syn. *Trichosoma columbae* Dujardin, 1845; *Trichosomum* (*Calodium*) *tenuissimum* Diesing, 1851; *T. tenuissimum* Eberth, 1863; *T. tenuissimum* Linstow, 1874, not Leidy, 1891; *T. columbae* Neveu Lemaire, 1912; *Capillaria dujardini* Travassos, 1914.
Host—*Columba livia domestica*; *Gallus gallapavo*; *Phasianus colchicus*; Location—small intestine; Locality—India—Calcutta Zoo, W.B., Cosmopolitan. (401)
287. **C. contorta** (Creplin, 1839) Travassos, 1915.
Syn. *Trichosoma contortum* Creplin, 1839; *Capillaria vanelli* Yamaguti, 1935.
Host—*Accipiter*, *Aegialitis*, *Anas* (= *Dafila*), *Buteo*, *Charadrius*, *Coloeus*, *Corvus*, *Erithacus*, *Gallus*, *Larus*, *Meleagris*, *Nettion*, *Nyroca*, *Phasianus*, *Plotus* (= *Alle*), *Pavoncella*, *Recurvirostra*, *Ruticilla*, *Somateria*, *Sterna*, *Sturnus*, *Tadorna*, *Trypanocorax*, *Vanellus*; Locality—India; Asia; Europe; N. and S. America. (132)
288. **C. copsychi** Gupta, 1960.
Host—*Copsychus saularis*; Location—small intestine; Locality—Bangladesh—Dacca. (182A)

Order STRONGYLIDEA Diesing, 1851.

Family STRONGYLIDAE Baird, 1853.

Subfamily STRONGYLINAE Railliet, 1893.

289. **Deletrocaphalus dimidiatus** Diesing, 1851.

Syn. *Strongylus dimidiatus* Schneider, 1866; *Quastrongylus rheae* Maplestone, 1932.

Host—*Rhea americana*; Location—intestine; Locality—India—Calcutta Zoo, W.B.; Brazil; Uruguay. (141)

Family SYNGAMIDAE Leiper, 1912.

290. **Syngamus trachea** (Montagu, 1811) Chapin, 1925.

Syn. *Fasciola trachea* Montagu, 1811; *Syngamus trachealis* Siebold, 1836; *Strongylus trachealis* Nathusius, 1837; *S. pictus* Creplin, 1849; *S. meleagris gallopavonis* Diesing, 1851; *Sclerostoma syngamus* Diesing, 1851; *S. tracheale* Diesing, 1851; *Syngamus mucronatus* Schlothauber, 1860; *S. pugionatus* Schlothauber, 1860; *S. sclerostomum* Molin, 1861; *S. primitivus* Molin, 1861; *S. furcatus* Theob., 1896; *Strongylus primitivus* (Molin, 1861) Hutyra and Mareck, 1910.

Host—*Acanthis canabina*, *Alecteris graeca*, *Apus apus* (= *Cypselus apus*), *Bonasa umbellus*, *Columba livia*, *Corvus corona* (= *C. cornix*); *C. brachynchos*; *C. frugileus*, *C. monedula*, *Delichon urbica*, *Falco tinnunculus*, *Gallus gallus domesticus*, *Garrulus glandar*, *Lagopus scotica*, *Lyrurus tetrax*, *Meleagris gallopavo*, *Pastor roseus*, *Pavo cristatus*, *Perdix perdix* (= *P. cinerea*), *Phasianus colchicus*, *P. gallus*, *P. reckesi*, *Picus canus*, *Pyrocorax graculus* (= *P. alpinus*), *Sturnella magna*, *Tetraogallus caucasicus*; *Tetraogallus* sp.; Locality—India; Cosmopolitan. (321)

Family TRICHOSTRONGYLIDAE Leiper, 1912.

Subfamily ORINTHOSTRONGYLINAE Travassos, 1937.

(N)291. **Ornithostrongylus nicobaricus** Maplestone, 1940.

Host—*Coloenas nicobarica*; Locality—India—Calcutta Zoo, W.B. (298)

292. **O. quadriradiatus** (Stevenson, 1904) Travassos, 1914.

Syn. *Strongylus quadriradiatus* Stevenson, 1904.

Host—*Chalcophaps indica indica*, *Columba livia domestica*, *Colinus virginianus*, *Streptopelia turtor turtor*; Location—kidney; Locality—India—Bombay Zoo, Maharashtra; Sri Lanka; Australia, Formosa, Hawaii, Cuba; S. Africa; South America; Russia. (489)

293. **O. travassosi** Maplestone, 1932.

Host—*Chalcophaps indica indica*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (293)

Subfamily AMIDOSTOMINAE Travassos, 1919.

294. **Amidostomum skrjabini** Boulenger, 1926.

Syn. *Amidostomum fuligulae* Maplestone, 1930.

Host—*Anser albifrons* (= *Anas albifrons*), *A. platyrhynchos*, *Fuligula cristata*, *Fuligula* sp., *Nyroca ferina*, *Marecca*, *Oedemia*, *Pseudotodorna*.

cristata, *Querquedula*, etc.; Locality—India—Calcutta Zoo, W.B.; Africa; Asia; Europe; Formosa; N. & S. America. (87)

- (N)295. **Epomidostomum uncinatum** (Lundhal, 1848) Seurat, 1918.

Syn. *Strongylus uncinatum* Lundhal, 1848; *Epomidostomum anatinum* Skrjabin, 1916.

Host—Anseriformis, *Anas acuta* (= *Dafila acuta*), *A. querquedula* (= *Q. querquedula*), *Nyroca rufa* (= *Fuligula nyroca*), *Sarkidiornis melanotos*, *Tadorna ferruginea* (= *Casarca ferruginea*), ducks and wild ducks; Locality—India. (280)

- (T)296. **Pseudamidostomum boulengeri** Maplestone, 1930.

Host—*Bubulcus ibis coromandus*, ducks, *Nettapus coromandelianus*; Location—gizzard; Locality—India—Calcutta, W.B. (291)

Order DIOCTOPHYMIDEA Yamaguti, 1961.

Family DIOCTOPHYMIDAE Railliet, 1915.

Subfamily HYSTRICHINAE Skrjabin and Schikhobolova, 1954.

- (N)297. **Eustrongylides mergorum** (Rudolphi, 1809) Cram, 1927.

Syn. *Strongylus mergorum* Rudolphi, 1809.

Host—*Alca*, *Anas*, *Ardea*, *Charadrius*, *Ciconia*, *Clangula*, *Colymbus*, *Egretta*, *Harelda*, *Merganser*, *Mergellus*, *Mergus albellus*, *M. serrator*, *Numenius*, *Nycticorax*, *Phalacrocorax*, *Podiceps*, *Somateria*, *Uria*. Location—gizzard; Locality—India?; Afghanistan—Kabul; Europe; Japan. (400)

Order OXYURIDEA Weinland, 1858.

Family OXYURIDAE Cobbold, 1864.

Subfamily OXYURINAE Hall, 1916.

- (N)298. **Avilandros avis** (Maplestone, 1940).

Host—*Actitis hypoleucos* (= *Tringa hypoleucos*); Locality—India—Calcutta Zoo, W.B. (298)

Subfamily COSMOCERCINAE Railliet, 1916.

- (T)299. **Syphaciella indica** Maplestone, 1931.

Host—*Pterocles excustus*; Location—caecum, intestine; Locality—India—Calcutta Zoo, W.B., Hyderabad, A.P.; Afghanistan. (292)

Family HETERAKIDAE Railliet and Henry, 1914.

Subfamily HETERAKINAE Railliet and Henry, 1913.

- (T)300. **Heterakis beramporia** Lane, 1914.

Syn. *Heterakis putaustralis* Maplestone, 1932.

Host—*Gallus* sp. (domestic fowl); *G. sonneratii*, *Gennaesus nycthemerus*; Location—intestine; Locality—India—Berhampore and Calcutta Zoo, W.B.; China; Malaya; Philippines. (235)

(T)301. **H. bosia** Lane, 1914.

Host—*Tragopan satyra*; Locality—India—Calcutta Zoo, W.B. (235)

(N)302. **H. gallinarum** (Schränk, 1788).

Syn. *Ascaris gallinarum* Schränk, 1788; *Heterakis gallinae* (Gmelin, 1790) Freeborn, 1923; *H. longicaudata* Linstow, 1879; *H. parisi* Blanc, 1913.

Host—*Acryllium*, *Alectoris*, *Anas*, *Anser*, *Cacabis*, *Calopteroles*, *Cairina*, *Cerionis*, *Chrysolophus*, *Chlamydotis*, *Coturnix*, *Colinus*, *Corvus*, *Cupidonia*, *Francolinus gularis*, *Gallus*, *G. domesticus*, *Galloperdix*, *Gennaeus*, *Graphophasianus*, *Grossiptodon*, *Lagopus*, *Lophura*, *Lyrurus*, *Meleagris*, *Otis*, *Pavo*, *Phasianus*, *Pedioectes*, *Perdix*, *Pternistes*, *Strix*, *Tetrao*, *Tetrastes* (= *Bonasa*), *Thaumalea*, *Tragopan satyra*, *Tragopan*, *Tympanchus*; Location—caecum and intestine; Locality—India—Bareilly, Mukteswar, Kumaun, U.P., Calcutta Zoo, W.B.; Cosmopolitan, (427)

303. **H. hamulus** Linstow, 1906.

Host—*Pavo cristatus*, *P. spicifer*; Location—caeca; Locality—Burma, Malaya region; Europe. (271)

304. **H. indica** Maplestone, 1932.

Host—*Gallus* sp. (Fowls); Locality—India—Calcutta, W.B. (294)

305. **H. isolenche** Linstow, 1906.

Syn. (N) *Heterakis putaurtolis* Lane, 1914; *H. neoplastica* Wassink, 1917; (T) *H. hastata* Chandler, 1926; (T) *H. variabilis* Chandler, 1926; (T) *H. lanei* Chandler, 1926.

Host—*Anas*, *Crossoptilon*, *Euplocamus*, *Gennaeus*, *Ithaginis*, *Lophura*, *Lopharus impeyanus*, *Perdix*, *Polyplectrum bicalcaratum*, *Tragopan satyra*; Locality—India—Berhampore and Calcutta Zoo, W.B.; Australia; China; N. and S. America; Russia; Singapore. (271)

(T, N)306. **H. lahulensis** Soota and Chaturvedi, 1969.

Host—*Tetraogallus himalayensis*; Location—intestine; Locality—India—Dondhi Taj, Lahul valley, H.P. (473)

(N)307. **H. papillosa** (Bloch, 1782) Railliet, 1885.

Syn. *Ascaris papillosa* Bloch, 1782 (part); *Fusaria papillosa* Zeder, 1803 (part); *Heterakis monticelliana* Stossich, 1892; *H. caudata* Linstow, 1906; *H. stylosa* Linstow, 1907.

Host—*Arboricola torqueola*; *Cerionis cereopsis novaehollandiae*, *Euplocamus nycthemerus*, *Otis tarda*, *Phasianus*, *Tetrax tetrax*; Location—caecum and large intestine; Locality—India—Calcutta, W.B.; Mukteswar, Kumaun, 7500 ft. U.P.; Asia; Europe. (83)

(T)308. **H. parva** Maplestone, 1931.

Host—*Gennaeus nycthemerus*; Locality—India—Calcutta Zoo, W.B. (292)

309. **H. pusilla** Linstow, 1906.

Host—*Gallus gallus*, *G. lofayethi*; Locality—India—Tamil Nadu; Sri Lanka. (270)

310. **H. tragopan** Lal, 1942.

Host—*Tragopan satyra*; Locality—India—Lucknow, U.P. (232)

311. **H. versicularis** (Froelich, 1791) Dujardin, 1845.

Syn. *Ascaris papillosa* Bloch, 1782 (part); *A. vesicularis* Froelich, 1791.

Host—*Anas*, *Chenopsis*, *Colinus*, *Coturnix*, *Cupidonia*, *Euplocomus*, *Gallus*, *Grossiptodon*, *Lagopus*, *Meleagris*, *Numida*, *Ortyx*, *Pavo*, *Perdix*, *Phasianus colchicus*, *Polyplectron*; Locality—India—?; Nepal; Africa; Europe; N. America. (160)

(T)312. **H. vulvolabiata** Chandler, 1926.

Host—*Arboricola torquata*; Location—caeca and large intestine; Locality—India—Calcutta Zoo, W.B. (110)

Family ASPIDODERIDAE Freitas, 1956.

Subfamily SPINASPIDODERINAE Freitas, 1956.

313. **Spinaspidodera spinosa** (Maplestone, 1932).

Syn. *Pseudaspidodera spinosa* Maplestone, 1932.

Host—*Argusianus argus*; Location—intestine; Locality—India—Calcutta Zoo, W.B. (294)

(T, N)314. **Pseudaspidodera pavonis** Baylis and Daubney, 1922.

Syn. *Heterakis pavonis* Maplestone, 1931.

Host—*Argusianus argus*, *Gennaesus nycthemerus*, *Pavo cristatus*, *P. muticus*; Location—large intestine; Locality—India—Calcutta Zoo, W.B. (62)

(T)315. **Pseudaspidoderina voluptuosa** (Chandler, 1926) Freitas, 1956.

Syn. *Pseudaspidodera voluptuosa* Chandler, 1926; *P. voluptuosa minor* Chandler, 1926; *Heterakis longespiculum* Maplestone, 1931.

Host—*Argusianus argus*, *Rollulus rouloul*; Location—large intestine and caeca; Locality—Calcutta Zoo, W.B. (110)

(T)316. **Pseudaspidoderoides jnanendrae** (Chakravarty, 1938) Freitas, 1956.

Syn. *Pseudaspidodera jnanendrae* Chakravarty, 1938.

Host—*Pavo cristatus*; Locality—India—Calcutta, W.B. (95)

Family SUBULURIDAE Yorke and Maplestone, 1926.

Subfamily SUBULURINAE Travassos, 1914.

*317. **Subulura differens** (Sonsino, 1890) Railliet and Henry, 1912.

Syn. *Heterakis differens* Sonsino, 1890.

Host—*Alectoris graeca*, *Centropus*, *Francolinus bicalcaratus*, *Gallus domesticus*, *Meleagris*, *Numida*, *Phasianus*, *Perdix perdix canescens*; Locality—India; Cosmopolitan. (466)

*Ortlepp, 1937, considers *Subulura differens* (Sonsino, 1890) as a synonym of *S. suctoria* (Molin, 1860).

- (T)318. **S. galloperdicis** Baylis and Daubney, 1922.
Host—*Galloperdix spadicea*, *Lophortyx gambeli*; Location—intestine;
Locality—India—Calcutta Zoo, W.B.; Arizona. (62)
- (N)319. **S. kabulanus** Akhtar, 1937.
Host—*Tetraogallus* sp.; Locality—Afghanistan—Kabul; India.
(10)
320. **S. minetti** Bhalerao, 1941.
Host—*Gallus* sp. (=Fowl); Locality—India. (76)
- (N)321. **S. multipapillata** (Chandler, 1926) Baylis, 1936.
Syn. *Allodapa multipapillata* Chandler, 1926.
Host—*Rollulus rouloul*; Location—large intestine and cacca;
Locality—India—Calcutta Zoo, W.B. (110)
322. **S. olympioi** Barreto, 1919.
Host—*Crypturus parvirostris*, *Noctura maculosa*, *Rhynchotus rufescens*,
Pavo cristatus; Locality—India—Calcutta Zoo, W.B.; Brazil. (40)
- (T)323. **S. turnicis** Maplestone, 1931.
Host—*Turnix dussumieri*, *Turnix* sp.; Location—intestine; Locality—
India—Calcutta Zoo, W.B.; Afghanistan—Kabul. (292)

Family KATHLANIDAE Yorke and Maplestone, 1926.
Subfamily SPIRONOURINAE Yamaguti, 1961.

324. **Spiironoura cameroni** Gupta and Jehan, 1970.
Host—*Coturnix coturnix*; Location—intestine; Locality—India—
Lucknow, U.P. (182a)

Order ASCARIDIDEA Yamaguti, 1961.
Family ASCARIDIDAE Blanchard, 1849.
Subfamily ASCARIDIINAE Travassos, 1919.

- (T)325. **Ascaridia alata** Soota and Chaturvedi, 1970.
Host—*Pavo cristatus*; Location—intestine & coelom; Locality—
India—Nishangarh, Behraich, U.P. (476)
- (T)326. **A. andamanensis** Soota and Chaturvedi, 1970.
Host—*Halaetus leucogaster*; Location—intestine; Locality—India
Wrightmyo, South Andaman. (476)
- (T)327. **Ascaridia bulatta** Soota and Chaturvedi, 1969.
Host—*Tetraogallus himalayensis*; Location—intestine; Locality—
India—Dondhi Taj, Lahul Valley, H.P. (473)

(N)328. **A. columbae** (Gmelin, 1790) Travaços, 1913.

Syn. *Ascaris columbae* Gmelin, 1790; *A. maculosa* Rudolphi, 1802; *Heterakis maculosa* (Rudolphi, 1802); *Fusaria maculosa* Zeder, 1803; *Ascaris* (*Ascaridia*) *maculosa* Dujardin, 1845; *Heterakis maculosa* Schneider, 1866; *H. columbae* Railliet, 1885; *Ascaridia maculosa* Railliet and Henry, 1912.

Host—*Columba* sp., *Crocopus phoenicopterus*, *Domicella*, *Leucasarica*, *Palomas*, *Pavo*, *Phaps*, *Pholgoenas luzanica*, *Polyteles*, *Streptopelia*, *Talpocata*; Location—large intestine; Locality—India—Calcutta Zoo, W.B.; Burma; Africa; America; Argentina; Australia; Brazil; Europe; Formosa; Indochina; Japan; Mexico. (171)

(N)329. **A. compar** (Schränk, 1790) Travaços, 1913.

Syn. *Ascaris compar* Schränk, 1790; *A. logopodis* Frolich, 1802; *Fusaria compar* Zeder, 1803; *Ascaris* (*Ascaridia*) *compar* Dujardin, 1845; *Heterakis compar* Stossich, 1887.

Host—*Alectoris graeca chukar*, *Cacabis*, *Chucar*, *Coturoix*, *Gallus*, *Lyrurus*, *Ortyx*, *Perdix*, *Tetrao*, *Tetrestes*; Locality—India—Calcutta Zoo, W.B.; Burma; America; Europe; Philippine. (427)

(N)330. **A. cristata** (Linstow, 1901) Railliet and Henry, 1914.

Syn. *Heterakis cristata* Linstow, 1901.

Host—*Antigone antigone*, *Balcarica pavonia*, *B. regulatorum*; Locality—India—Calcutta Zoo, W.B., Madras; Africa. (263)

(N)331. **A. galli** (Schränk, 1788) Freeborn, 1923.

Syn. *Ascaris galli* Schränk, 1788; *A. gallopavonis* Gmelin, 1790; *Fusaria inflexa* Zeder, 1800; *F. reflexa* Zeder, 1800; *F. strumosa* Zeder, 1800; *Ascaris perspicillum* Rudolphi, 1803; *A. inflexa* Rudolphi, 1809; *A. gibbosa* Rudolphi, 1809; *A. (Ascaridia) inflexa* Dujardin, 1845; *A. (Ascaridia) perspicillum* Dujardin, 1845; *Heterakis lineata* Schneider, 1866; *H. perspicillum* Railliet and Henry, 1912; *Ascaridia lineata* Railliet & Henry, 1912; (*T*) *Ascaridia hamia* Lane, 1914; *A. granulosa* Railliet & Henry, 1912.

Host—*Anas acuta*, *Cacabis carrina*, *Colinus*, Duck, *Gallus domesticus*, Goose, Guineafowl, Junglefowl, *Ithaginis*, *Lyrurus*, *Meleagris*, *Melopelia*, *Numida*, *Pavo cristatus*, *Perdix*, *Phasianus*, *Pedioecetes*, Pigeon, *Spilopelia*, *Tetrao*, *Tetrastes bonasia rupestris*, *Turdus viscivorus*. Location—caecum and intestine; Locality—India—Balaghat, M.P.; Bareilly, U.P.; Berhampore, W.B.; cosmopolitan. (427)

(T) 332. **A. nicobarensis** Soota et al., 1969.

Host—*Psittacula*; Locality—India—Great Nicobar, Bay of Bengal. (486)

333. **A. razia** Akhtar, 1937.

Host—*Columba livia*; Locality—India; Afghanistan. (10)

(N)334. **A. stroma** (Linstow, 1899) Railliet and Henry, 1914.

Syn. *Heterakis stroma* Linstow, 1899.

Host—*Antigone antigone*, *Grus communis*, *G. paradisea*; Locality—India—Calcutta Zoo, W.B.; Berlin Museum; South Africa. (262)

(N)335. **A. trilabium** (Linstow, 1904) Railliet and Henry, 1914.

Syn. *Heterakis trilabium* Linstow, 1904.

Host—*Centropus sinensis parrotti* (=crowpheasant); Locality—India—Barakar, W.B.; Sri Lanka—Harona; China—Canton. (267)

Family HETEROCHEILLIDAE Railliet and Henry, 1915.

Subfamily FILOCAPSULARIINAE Yamaguti, 1961.

336. **Amplicaecum capellae** Majumdar, 1964.
Host—*Gallinago gallinago* (= *Capella gallinago*); Location—stomach;
Locality—India—Calcutta, W.B. (283)
337. **A. ixobrychusi** Majumdar and Chakravorty, 1963.
Host—*Ixobrychus cinamomeus*; Location—stomach; Locality—India—Dum Dum, Calcutta, W.B. (284)
338. **A. phalacrocoraxi** Chakravorty and Majumdar, 1959.
Host—*Phalacrocorax* sp.; Location—stomach; Locality—India—Calcutta, W.B. (100)
339. **Belanisakis ibidis** Mapleton, 1932.
Host—*Ibis melanocephalus*; Location—intestine; Locality—India—Calcutta Zoo, W.B. (293)
340. **Contracaecum accipitrinis** Inglis, 1954.
Host—*Torgos calvus* (= *Sarcogyps calvus*); Location—intestine;
Locality—India. (194)
- (T)341. **C. engonium** Baylis and Daubney, 1922.
Host—*Ciconia nigra*; Locality—India. (62)
- (N)342. **C. haliaeti** Baylis and Daubney, 1923.
Syn. *Ascaris aquillae* Smith, Fox and White, 1908; not *A. equilae* Gmelin 1790; ? *A. ceylanica* Linstow, 1901; *A. fissicollis* Linstow, 1906; ? *A. ceylonica* Linstow, 1907; ? *A. zeylanica* Linstow, 1907.
Host—*Haliaetus leucocephalus*, *H. leucogaster*, *Haliastur indus*, *Ichthyophaga ichthyaetus*; Location—intestine and stomach; Locality—India—Balaghat, M.P.; Barakuda, Lake Chilka, Orissa; Calcutta, W.B.; Sri Lanka—Nedunkeni. (63)
- (N)343. **C. microcephalum** (Rudolphi, 1809) Baylis, 1920.
Syn. *Ascaris microcephala* Rudolphi, 1809; ? *A. coronata* Linstow, 1906;
Kathleena arcuata Gedoelst, 1916; *Contracaecum quadricuspe* Walton, 1923.
Host—*Anas*, *Anhinga*, *Ardeola comata*, *A. grayii*, *Botaurus*, *Butorides*, *Ciconia*, *Egretta*, *Herodias*, *Nycticorax*, *Nyctiardea*, *Phalacrocorax*, *Pelecanus*. Location—stomach; Locality—India—Samal Island, Lake Chilka, Orissa. Sri Lanka—Tissamaharama; Africa; Europe; North America. (400)
344. **C. milvi** Yamaguti, 1935.
Host—*Butastur teesa*, *Milvus migrans govinda*, *M. milvus lineatus*, *M. m. formosanus*; Location—oesophagus and stomach; Locality—India—Formosa; Japan. (536)
- (N)345. **C. rosarium** (Connal, 1912) Baylis, 1920.
Syn. *Ascaris rosarius* Connal, 1912.
Host—*Nycticorax griseus*; *N. nycticorax*; *Nycticorax* sp.; Locality—India—W.B.; West Africa. (130)

- (N)346. **C. spiculigerum** (Rudolphi, 1809) Railliet and Henry, 1912.
Syn. *Ascaris spiculigera* Rudolphi, 1809; *A. variegata* Rudolphi, 1809.
Host—*Alca*, *Botaurus*, *Colymbus*, *Cygnus*, *Gavia*, *Larus*, *Mergus merganser*, *Mergus* sp., *Notophox*, *Nycticorax*, *Phalacrocorax* sp., *P. fuscicollis*, *Pelecanus*, *Podiceps*, *Rhodestehia*, *Stercorarius*.
Location—proventriculus; Locality—India—Calcutta, W.B. Kanpur, U.P.; Potenghan, Imphal; Samal Island, Lake Chilka, Orissa; cosmopolitan. (400)
- (N)347. **C. tricuspis** (Geddoelst, 1916) Baylis, 1920.
Syn. *Kathleena tricuspis* Geddoelst, 1916.
Host—*Anhinga*, *Ardea*, *Plotus melanogaster*, *Plotus* sp.; Location—gizzard and intestine; Locality—India—Calcutta, W.B.; Damodar Valley, Bihar; Australia; Belgian Congo. (166)
348. **Duplicaecum ibisi** Majumdar and Chakravorty, 1963.
Host—*Bubulcus ibis coromandus*; Location—stomach; Locality—India—Dum Dum, Calcutta, W.B. (284)
- (N)349. **Porrocaecum angusticolle** (Molin, 1860) Baylis and Daubney, 1922.
Syn. *Ascaris angusticollis* Molin, 1860; **Porrocaecum halliasturi* Gupta, 1960.
Host—*Accipiter*, *Archibuteo*, *Aquila*, *Buteo*, *Cheela*, *Circus*, *Falco*, *Gyps*, *Haliastur indus*, *Helotarsus*, Fish hawk, *Milvus migrans govinda*, *Milvus* sp.; *Pandon*, *Tinnuculus*, *Pernis*, *Spilornis*, Shrike, Vulture, Location—duodenum and intestine; Locality—India—Barakar, Calcutta, W.B.; Bombay, Poona, Maharashtra; Hosiarpur, Punjab; Lahul Valley, H.P.; Rajasthan; Bihar; Bangla Desh—Dacca; Africa; Europe; Japan; N. America. (318)
350. **P. ardeae** (Frolich, 1802) Baylis, 1936.
Syn. *Ascaris ardea* Frolich, 1802; *A. serpentulus* Rudolphi, 1809.
Host—*Anthropoides virgo*, *Ardea*, *Grus*, *Phoenicopterus*, *Sterna*; Locality—India—Calcutta, W.B.; America; Europe. (161)
- (N)351. **P. crassum** (Deslongchamps, 1824) Railliet and Henry, 1912.
Syn. *Ascaris crassa* Deslongchamps, 1824.
Host—Guinea fowl, Wild and domestic ducks; Locality—India—Bombay, Maharashtra; Europe. (137)
- (N)352. **P. depressum** (Zeder, 1800) Baylis, 1920.
Syn. *Fusaria depressa* Zeder, 1800; *Ascaris depressa* Rudolphi, 1809;
Host—*Accipiter*, *Aegyptius monachus*, *Aquila*, *Asio* (= *Asiso*) *Bubo*, *Circaltus*, *Falco alpicilla*, *Falco*, *Gypaetus*, *Gyps*, *Milvus*, *Pernis*, *Scolopax*, *Strix*, Vulture and also in Mammals *Sorex araneus*, *Talpa europaea*; Locality—India—Calcutta Zoo, W.B.; Australia; Brazil; Canada; Europe; Mexico; U.S.A. (549)

* Soota and Chaturvedi (1971).

- (N)353. **P. reticulatum** (Linstow, 1899) Baylis and Daubney 1922.

Syn. *Ascaris reticulata* Linstow, 1899; ? *A. ardea* Smith, Fox and White, 1908, not Frolich, 1802.

Host—*Ardea cocoi*, *A. manillensis*, *A. purpurea*, *Nycticorax nycticorax*, *Egretta* sp., also in fishes—(Baykhovskaya—Palvlonskaya, etc., 1922 in U.S.S.R.); Location—small intestine; Locality—India—Calcutta Zoo, W.B.; Africa; Austrakhan, China; Japan; Queensland; Puerto—Alegreo. (262)

Order SPIRURIDEA Diesing, 1861.

Family SPIRURIDAE Oerley, 1885.

Subfamily SPIRURINAE Railliet, 1915.

354. **Excisa buckleyi** Ali, 1961.

Host—*Ciconia episcopus* (= *Dissoura episcopus*); Location—gizzard and proventriculus; Locality—India—Hyderabad, A.P. (30)

355. **Habronema asymmetricum** Maplestone, 1932.

Host—*Circus macrorus*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (293)

356. **H. casuarii** Maplestone, 1932.

Host—*Casuarius bicarunculatus*; Locality—India—Calcutta Zoo, W.B. (293)

357. **H. coraci** (Mirza and Basir, 1938).

Syn. * *Cyrnea coraci* Mirza and Basir, 1938.

Host—*Coracias bengalensis indica*; Location—gizzard; Locality—India—Hyderabad, A.P. (310)

358. **H. diesingi** Maplestone, 1932.

Host—*Acryllium vulturinum*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (293)

359. **H. dipterum** (Papowa, 1927) Li, 1934.

Syn. *Cicarius dipterum* Papowa, 1927.

Host—*Upupa epops*; Location—small intestine; Locality—India—Hyderabad, A.P.; N. China; Russia; Turkistan. (346)

- (T)360. **H. euplocami** Maplestone, 1930.

Host—*Asio otus otus*, *Euplocamus leucomelanus*, *Polyplectrum bicalcaratum*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (291)

- (T)361. **H. imbricatum** Maplestone, 1930.

Host—*Asio otus otus*, *Scops pinnatus*; Locality—India—Calcutta Zoo, W.B.; N. China. (291)

* Baylis, 1939, considers *Cyrnea coraci* as a synonym of *H. indicum* Maplestone, 1929.

362. **H. incertum** (Smith, 1908).
Syn. *Spiroptera incerta* Smith, 1908.
Host—Cuculiformes, Columbiformes, Galliformes, Gruiformes, Parakeets, Passeriformes, Piciformes, Psittaciformes, Reiformes; Location—gizzard; Locality—India; Philadelphia Zoo. (464)
- (T)363. **H. indicum** Maplestone, 1929.
Host—*Coracias bengalensis indica*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (289)
364. **H. magnilabiatum** Maplestone, 1932.
Syn. *Sicarius magnilabiata* Vaz, 1936.
Host—*Gyps bengalensis* (= *Pseudogyps bengalensis*), *Poliopterus plumbeus*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (293)
365. **H. thapari** Sanwal, 1951.
Host—*Coracias bengalensis indica*; Location—gizzard; Locality—India—Lucknow, U.P. (416)
366. **H. (Aviabronema) ameerae** Ali, 1961.
Host—*Falco tinnunculus interstinctus* (= *Cerchneis tinnunculus interstinctus*); Location—proventriculus; Locality—India—Hyderabad, A.P. (30)
367. **H. (A.) chabaudi** Ali, 1961.
Host—*Falco jugger*; Location—proventriculus; Locality—India—Hyderabad, A.P. (30)
368. **H. (A.) daleri** Ali, 1961.
Host—*Crocopus phoenicopterus chlorogaster*; Location—gizzard; Locality—India—Hyderabad, A.P. (30)
369. **H. (A.) hrishii** Agrawal, 1965.
Host—*Milvus migrans*; Location—intestine; Locality—India—Lucknow, U.P. (6)
370. **H. (A.) hyderabadensis** Ali, 1961.
Host—*Gracula religiosa intermedia* (= *G. intermedia*); Location—gizzard; Locality—India—Hyderabad, A.P. (30)
371. **H. (A.) magnipapillatum** Ali, 1961.
Host—*Butastur teesa*; Location—proventriculus; Locality—India—Hyderabad, A.P. (30)
372. **H. (A.) mansonii** Seurat, 1914.
Host—*Buteo* sp.; *Circus macrorus*, *Dryohatus major angeicus*, *Falco* sp., *Flaco* (= *Cerchneis*), *Gypaetus barbatus*, *Milvus korschum*; Location—proventriculus; Locality—India—Hyderabad, A.P.; Aborney, S. Kirgiziia; Canada; England; Mexico; N. China. (433)

373. **H. (A.) monoptera** Gendre, 1922.
Host—*Aquila vindhiana*, Nocturnal predatory birds; Location—proventriculus and stomach wall; Locality—India—Hyderabad, A.P.; Lahe. (168)
374. **H. (A.) singhi** Ali, 1961.
Host—*Milvus migrans govinda*; Location—proventriculus; Locality—India—Hyderabad, A.P. (30)
375. **H. (A.) suraiyae** Ali, 1961.
Host—*Falco chicquera*; Location—proventriculus; Locality—India—Hyderabad, A.P. (30)
376. **H. (A.) waheedae** Ali, 1961.
Host—*Haliastur indus*; Location—proventriculus; Locality—India—Hyderabad, A.P. (30)
377. **Hadjelia truncata** (Creplin, 1825).
Syn. *Spiroptera upupae* Rudolphi, 1819 (nom. nud.); *S. truncata* Creplin, 1825; *Hadjelia inermis* (Gedoelst, 1919) Chabaud and Compana, 1950.
Host—*Coracias* sp., *Cranorhinus corrugatus*, *Halcyon smyrensis*, *Halcyon* sp., *Irrisor* sp., *Oriolus*, *Lophocircol* sp., *Upupa epops*; Location—gizzard; Locality—India—Hyderabad, A.P.; Europe; Malacca. (131)
378. **Cyrnea bulbosa** (Linstow, 1906).
Syn. *Habronema bulbosum* Linstow, 1906.
Host—*Pavo cristatus*, *P. muticus*, *P. spicifer*; Location—gizzard; Locality—India—Calcutta Zoo, W.B.; Burma—Koenigsberg. (270)
379. **C. singhi** Ali, 1961.
Host—*Centropus sinensis*; Location—gizzard and proventriculus; Locality—India—Hyderabad, A.P. (30)

APPENDIX TO SPIRURINAE

- *380. **Quasithelazia tenuis** Maplestone, 1932.
Host—*Halcyon smyrensis* (= *Cercyle smyrensis*); Location—gizzard; Locality—India—Calcutta Zoo, W.B.; Hyderabad, A.P. (293)

Subfamily GONGYLONEMATINAE Nicoll, 1927.

381. **Gongylonema ingluvicola** Ransom, 1904.
Syn. *Gongylonema sumani* Bhalerao, 1933.
Host—Chickens, pheasants and turkeys; Locality—India—Lucknow, U.P.; Cosmopolitan. (373)

* Singh, 1949, assigned *Quasithelazia tenuis* to *Schistorophus* Railliet, 1916.

Subfamily SPIROXINAE Baylis and Lane, 1920.

382. **Harteria rotundata** (Linstow, 1883) Seurat, 1914.

Syn. *Filaria rotundata* Linstow, 1883.

Host—*Chlamydotis undulata* (=Houbara), *Choriotis arabs*, *Oedicnemus*, *Otis*, *Plocepasser*, *Tetrax tetrax*; Locality—India; Africa; Asia. (257)

Family THELAZIIDAE Skrjabin, 1915.

Subfamily DESMIDOCERCINAE Cram, 1927.

- *383. **Desmidocercella leiperi** Singh, 1948.

Host—*Ardeola grayii*, Location—air sacs; Locality—India—Hyderabad, A.P. (450a)

384. **D. singhi** Ali, 1957.

Host—*Desmiegretta asha*; Location—air sacs; Locality—India—Hyderabad, A.P. (26)

Subfamily OXYSPIRURINAE Yamaguti, 1961.

385. **Oxyspirura acuticauda** Jairajpuri and Siddiqi, 1967.

Host—*Acridotheres ginginianus*; Locality—India—Laharpur, Sitapur, U.P. (200)

386. **O. basiri** Siddiqi and Jairajpuri, 1964.

Host—*Clamator jacobinus*; Locality—India—Aligarh, U.P. (439)

387. **O. buccosulcata** Singh, 1948.

Host—*Sturnus pagodarum* (= *Temenchus pagodarum*); Location—nictitating membrane; Locality—India—Hyderabad, A.P. (450a)

388. **O. dicruricola** Jairajpuri and Siddiqi, 1967.

Host—*Dicrurus adsimilis*; Locality—India—Aligarh, U.P. (200)

389. **O. dicruri** Jairajpuri and Siddiqi, 1967.

Host—*D. adsimilis*; Locality—India—Aligarh, U.P. (200)

390. **O. grandipapillata** Jairajpuri and Siddiqi, 1967.

Host—*D. adsimilis*; Locality—India—Aligarh, U.P. (200)

391. **O. gubernaculata** Rasheed, 1960.

Host—*Motacilla cinerea caspisa*; Location—orbital cavity; Locality—India—Hyderabad, A.P. (384)

392. **O. hyderabadensis** Rasheed, 1960.

Host—*Dicrurus macrocercus*; Location—orbital cavity; Locality—India—Hyderabad, A.P. (384)

* Chabaud, 1957, considers *D. leiperi* as synonym of *D. numidica*.

393. **O. indica** Singh, 1948.
Host—*Copsychus malabarica* (= *Kittacincla malabarica*); Location—orbital cavity; Locality—India—Hyderabad, A.P. (450a)
394. **O. laharpurensis** Jairajpuri and Siddiqi, 1967.
Host—*Acridotheres tristis*; Location—orbital cavity; Locality—India—Laharpur, Sitapur Dist., U.P. (200)
395. **O. malabarica** Jairajpuri and Siddiqi, 1967.
Host—*Sturnus malabarica*; Location—orbital cavity; Locality—India—Aligarh, U.P. (200)
396. **O. meropsicola** Jairajpuri and Siddiqi, 1967.
Host—*Merops orientalis*; Location—orbital cavity; Locality—India—Aligarh, U.P. (200)
397. **O. mirzai** Jairajpuri and Siddiqi, 1967.
Host—*Turdodis striatus*; Location—orbital cavity; Locality—India—Aligarh, U.P. (200)
398. **O. otocompsa** Rasheed, 1960.
Host—*Otocompsa jocosa fusicaudata*; Location—orbital cavity; Locality—India—Hyderabad, A.P. (384)
399. **O. orientalis** Jairajpuri and Siddiqi, 1967.
Host—*Dicrurus adsimilis*; Location—orbital cavity; Locality—India—Aligarh, U.P. (200)
400. **O. rustica** Jairajpuri and Siddiqi, 1967.
Host—*Dicrurus adsimilis*; Locality—India—Aligarh, U.P. (200)
401. **O. singhi** Rasheed, 1960.
Host—*Anthus richardi rufulus*; Location—orbital cavity; Locality—India—Hyderabad, A.P. (384)
402. **O. solitaria** Jairajpuri and Siddiqi, 1967.
Host—*Merops orientalis*; Locality—India—Aligarh, U.P. (200)
403. **O. sturnia** Jairajpuri and Siddiqi, 1967.
Host—*Acridotheres ginginianus*, *Francolinus pondicerianus*, *Sturnus contra*, *Taccouca leschenaultii*; Location—orbital cavity; Locality—India—Aligarh and Laharpur, Sitapur dist., U.P. (200)
404. **O. (Cramispirura) popowi** Skrjabin, 1929.
Host—*Ammospiza maritima*, *Bonasa*, *Copsychus saularis*, *Enneoctoneus collurio*, *Icterus pustulatus*, *Lanius minor*, *Luscinia*, *Motacilla cyanus*, *Motacilla* sp., *Oriolus* sp., *Otomela phoenicuroides*, *Phasianus colchicus torquatus*, *Pedioectes* sp., *Setopagis parvulla*, *Sturnella*, *Tympanuchus*, *Turdus*; Locality—India; Brazil; Mexico; Russia; U.S.A. (537)

405. **O. (Oxyspirura) alii** Sultana, 1964.
Host—*Tephrodornis p. pondiceriana*; Location—orbital cavity;
Locality—India—Hyderabad, A.P. (501)
406. **O. (O.) alauda** Ali, 1960.
Host—*Alauda g. gulgula*; Location—orbital cavity; Locality—
India—Hyderabad, A.P. (28)
407. **O. (O.) asiatica** Ali, 1960.
Host—*Accipiter nisus*; Location—orbital cavity; Locality—India
—Hyderabad, A.P. (28)
408. **O. (O.) brouxi** Ali, 1960.
Host—*Turdus merula nigropilcus*; Location—orbital cavity; Locality
—India—Hyderabad, A.P. (28)
409. **O. (O.) buckleyi** Ali, 1960.
Host—*Motacilla alba*; Location—orbital cavity; Locality—India
—Hyderabad, A.P. (28)
410. **O. (O.) cisticola** Sultana, 1964.
Host—*Cisticola juncidis cusitans*; Location—orbital cavity; Locality
—India—Hyderabad, A.P. (501)
411. **O. (O.) chrysoma** Ali, 1960.
Host—*Chrysoma sinensis*; Location—orbital cavity; Locality—
India—Hyderabad, A.P. (28)
412. **O. (O.) dukhunensis** Sultana, 1964.
Host—*Leipicus maharattensis blanfordi*; Location—orbital cavity;
Locality—India—Hyderabad, A.P. (501)
413. **O. (O.) egretta** Sultana, 1964.
Host—*Egretta g. garzetta*; Location—orbital cavity; Locality—
India—Hyderabad, A.P. (501)
414. **O. (O.) eremopterixa** Sultana, 1964.
Host—*Eremopterix g. grised*; Location—orbital cavity; Locality—
Hyderabad, A.P. (501)
415. **O. (O.) fulica** Sultana, 1964.
Host—*Fulica atra*; Location—orbital cavity; Locality—India—
Hyderabad, A.P. (501)
416. **O. (O.) lalagea** Ali, 1960.
Host—*Lalage sykesii*; Location—orbital cavity; Locality—India
—Hyderabad, A.P. (28)
417. **O. (O.) leiperi** Sultana, 1964.
Host—*Turdoides terricolor*; Location—India—Hyderabad, A.P.,
(501)

418. **O. (O.) lobipluvia** Ali, 1960.
Host—*Vanellus malabaricus* (= *Lobipluvia malabaricus*); Location—orbital cavity; Locality—India—Hyderabad, A.P. (28)
419. **O. (O.) prinia** Ali, 1960.
Host—*Prinia socialis stewarti*; Location—orbital cavity; Locality—India—Hyderabad, A.P. (28)
420. **O. (O.) suraiyae** Sultana, 1964.
Host—*Pomatorhinus h. horsfieldi*; Locality—India. (501)
421. **O. (O.) yehi** Ali, 1960.
Host—*Upupa epops orientalis*; Location—muscles of eye wall; Locality—India—Hyderabad, A.P. (28)
422. **O. (Yorkespirura) mansonii** (Cobbald, 1879) Ransom, 1904.
Syn. *Spiroptera mansonii* Cobbald, 1879; *S. emmerezii* Emmerez and Megnin, 1901.
Host—*Gallus gallus*, *G. domesticus*, *Meleagris gallopavo*, *Pavo cristatus*; Locality—India; Amoy; Islands of Atlantic and Pacific Oceans; Formosa; Japan; U.S.A. (126)

Family PHYSALOPTERIDAE Leiper, 1908.

Subfamily PHYSALOPTERINAE Stossich, 1908.

- (N)423. **Physaloptera alata** Rudolphi, 1819.
Syn. *Physaloptera megalostoma* Creplin, 1829; *Spiroptera physaloptera* Dujardin, 1845; *Physaloptera alata chevreuxi* Seurat, 1914; *P. alata noveli* Seurat, 1915,
Host—*Accipiter nisus*, *C. macrourus*, *Circus cineraceus*, Falconiformes, *Milvus milvus*; Location—Oesophagus, gizzard and stomach; Locality—India—Hyderabad, A.P.; Africa; Australia; Brazil; China; Europe; Japan; N. America. (401)
424. **P. buckleyi** Ali, 1961.
Host—*Circaetus gallicus*; Location—Oesophagus and gizzard; Locality—India—Hyderabad, A.P. (28a)
425. **P. indiana** Ali, 1961.
Host—*Butastur teesa*; Location—gizzard; Locality—India—Hyderabad, A.P. (28a)
426. **P. microcauda** Ali, 1961.
Host—*Gyps bengalensis* (= *Pseudogyps bengalensis*); Location—gizzard; Locality—India—Hyderabad, A.P. (28a)
427. **P. sultanae** Ali, 1961.
Host—*Haliaetus leucorhynchus*; Location—gizzard; Locality—India—Hyderabad, A.P. (28a)

Family ACUARIIDAE Seurat, 1913.

428. **Acuaria alii** Rasheed, 1960.
Host—*Acridotheres ginginianus*; Location—gizzard; Locality—India—Hyderabad, A.P. (384)
- (N)429. **A. anthuris** (Rudolphi, 1819) Railliet, Henry and Sisoff, 1912.
Syn. *Spiroptera anthuris* Rudolphi, 1819; *Dispharagus anthuris* Dujardin, 1845; *Filaria anthuris* Schneider, 1866; *Acuaria nebraskensis* Williams, 1929.
Host—*Cissa erythrorhyncha occipitalis* (= *Urocissa erythrorhyncha*), *Dendrocitta*, *Graculus eremita*, *Pica*, *Pyrrhocorax*, *Corvus* sp. (Carrion crow); Location—gizzard; Locality—India—Calcutta Zoo, W.B.; Afghanistan—Kabul; Canada; Europe; Japan; U.S.A. (401)
430. **A. brevispicula** Maplestone, 1932.
Host—*Acridotheres ginginianus*, *Copsychus saularis*; Location—gizzard
Locality—India—Calcutta Zoo, W.B.; Pakistan. (293)
- (T)431. **A. conica** Maplestone, 1931.
Host—*Copsychus saularis*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (292)
432. **A. crami** Rasheed, 1960.
Host—*Saxicola caprata*; Location—gizzard; Locality—India—Hyderabad, A.P. (384)
433. **A. dicrura** Rasheed, 1960.
Host—*Dicrurus caerulescens caerulescens*; Location—gizzard; Locality—India—Hyderabad, A.P. (384)
434. **A. hyderabadensis** (Singh, 1948)
Syn. *Cheilospirura hyderabadensis* Singh, 1948.
Host—*Accipiter nisus*; Location—oesophagus; Locality—India—Hyderabad, A.P. (450)
435. **A. indica** Maplestone, 1932.
Host—*Accipiter badius* (= *Astur badius*); Location—gizzard; Locality—India—Calcutta Zoo, W.B.; Hyderabad, A.P. (293)
436. **A. kungi** Singh, 1948.
Host—*Saxicoloides fulicata*; Location—gizzard; Locality—India—Hyderabad, A.P. (450)
- (T)437. **A. lata** Maplestone, 1931.
Host—*Rollulus rouloul*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (292)
438. **A. lucknowensis** Gupta and Jehan, 1969.
Host—*Cissa chinensis*; Location—body wall; Locality—India—Lucknow, U.P. (182a)

439. **A. macrolaina** (Linstow, 1906) Railliet, Henry and Sisoff, 1912.
Syn. *Dispharagus macrolaenus* Linstow, 1906.
Host—*Anhinga melanogaster*; Locality—Sri Lanka. (270)
440. **A. scutata** Maplestone, 1931.
Host—*Dendrocitta rufa*; Location—gizzard; Locality—India—Calcutta Zoo, W.B. (292)
441. **A. singhi** Rasheed, 1960.
Host—*Temenchus pagodarum*; Location—gizzard; Locality—India—Hyderabad, A.P. (384)
442. **A. upupa** Rasheed, 1960.
Host—*Upupa epops orientalis*; Location—gizzard; Locality—India—Hyderabad, A.P. (384)
443. **Aviculariella alcyona** Wehr, 1931.
Syn. (T) *Acuaria (Rusguniella) brevis* Maplestone, 1931.
Host—*Ceryle alcyon*; *Halcyon smyrnensis*; Location—gizzard; Locality—India—Calcutta Zoo, W.B.; Canada; U.S.A. (529)
444. **Chevreuxia leiperi** Singh and Ali, 1961.
Host—*Dissoura episcopus episcopus*; Location—gizzard; Locality—India—Hyderabad, A.P. (456)
445. **Dispharynx alata** Akhtar, 1955.
Host—*Toccus birostris*; Locality—Pakistan—Lahore. (17)
446. **D. indicus** Rasheed, 1960.
Host—*Tyto alba stertens*; Location—proventriculus; Locality—India—Hyderabad, A.P. (384)
447. **D. ketupae** Sanwal, 1952.
Host—*Bubo zeylonensis*; Location—Oesophagus; Locality—India—Hardoi, U.P. (417)
448. **D. nasuta** (Rudolphi, 1819) Railliet, Henry and Sisoff, 1912.
Syn. *Spiroptera nasuta* Rudolphi, 1819; *Dispharagus nasutus* Dujardin, 1845; *D. spiralis* Molin, 1858; *Filaria nasuta* Schneider, 1866; *Dispharagus nasutus* Piana, 1897; *D. spiralis columbae* Bridre, 1910; *Acuaria (Dispharynx) spiralis* Railliet, Henry and Sisoff, 1912; *Cheilospirura nasuta* Ransom, 1916; *Dispharynx spiralis* Skrjabin, 1916; *D. nasuta* (Stiles and Hassall, 1920) Gram, 1927.
Host—*Accipiter*, *Alectoris*, *Armadillidium*, *Astur*, *Bonasa*, *Cacabis*, *Ciconia*, *Colinus*, *Columba*, *Coracias*, *Corvus*, *Fringilla domestica*, *Gallus gallus*, *Gallus* sp., *Megalaima asiatica*, *Medeagris*, *Metopidius indicus*, *Numida*, *Passer*, *Phasianus*, *Perdix*, *Planesticus*, *Procellio laevis*, *Quiscalus*, *Sturnus contra contra*, *Turdus*; Location—proventriculus and stomach; Locality—India—Bihar; Calcutta Zoo, W.B.; Sri Lanka—Pegombo; Dacca, Bangla Desh; Cosmopolitan. (401)

- *449. **D. pavonis** Sanwal, 1951.
Host—*Pavo cristatus*; Location—proventriculus; Locality—India—Lucknow, U.P. (416a)
450. **D. skrjabini** Rasheed, 1960.
Host—*Haliastur leucoryphus*; Location—stomach; Locality—India—Hyderabad, A.P. (384)
451. **D. sturnopastori** Chakravorty and Majumdar, 1962.
Host—*Sturnopaster contra*; Locality—India. (103)
- (T)452. **Echinuria hargilae** Baylis and Daubney, 1923.
Syn. *Acuaria (Echinuria) leptoptili* Baylis and Daubney, 1922; not Geddoelst, 1916; *Echinuria hargilao* Cram, 1927.
Host—*Leptoptilus dubius*; Locality—India—Calcutta, W.B. (64)
- (N)453. **E. uncinata** (Rudolphi, 1819) Seurat, 1916.
Syn. *Spiroptera uncinata* Rudolphi, 1819; *Echinuria jugadornata* Soloviev, 1912.
Host—*Anas boschas domestica*, *A. platyrhynchos platyrhynchos*, *A. penelopl*, *A. querquedula*, *A. rubripes*, *A. crecca*, *Anser cinereus*, *Chaulelasmus strepera*, *Cygnus alor*, *Nethion curolinense*, *Sometasia mollissima*, *S. spectabilis*, *Tadorna tadorna*; Locality—India—Calcutta Zoo, W.B.; Afghanistan; Africa; America; E. Siberia; Europe; Japan; Russia. (401)
454. **Rusguniella alii** Rasheed, 1960.
Host—*Ceryle radis leucomelanura*; Location—gizzard; Locality—India—Hyderabad, A.P. (384)
455. **Skrjabinocara buckleyi** Ali, 1957.
Host—*Phalacrocorax niger*; Location—gizzard; Locality—India—Hyderabad, A.P. (26)
456. **Skrjabinoclava horrida** (Rudolphi, 1809).
Syn. *Strongylus horrida* Rudolphi, 1809; *Spiroptera gallinulae* Rudolphi, 1819; *S. aculeata* (Creplin, 1825); *Filaria spinifera* Schneider, 1866.
Host—*Charadrius hiaticula*, *Erolia maritima*, *Halcyon smyrensis*, *Scolopax gallinula*, *Tringa alpina*, *T. glareola*, *T. variabilis*, *Aredeola ibis*; Locality—India; East Siberia; Europe. (400)
457. **Synhimantus invaginatus** (Linstow, 1901) Railliet, Henry and Sisoff, 1912.
Syn. *Dispharagus invaginatus* Linstow, 1901; *D. egrettae* Rudolphi, 1819 of Maccallum, 1921.
Host—*Bubulcus lucidus*; *Egretta alba*, *Leucophoyx thula*; Locality—India—Calcutta Zoo, W.B.; Algeria; Corsica; Europe. (263)

* Gupta, (1960) considers it as a synonym of *Dispharynx nasuta* (Rudolphi, 1819).

- (T)458. **S. laticeps** (Rudolphi, 1819) Railliet, Henry and Sisoff, 1912.

Syn. *Spiroptera fallax* Siebold, 1817; *Spiroptera laticeps* Rudolphi, 1819; *Filaria involuta* Linstow, 1879; *Dispharagus spiralis*, of Linstow; 1883.

Host—*Accipiter*, *Aegiolus*, *Asio*, *Bubo*, *Buteo*, *Cerchneis*, *Circus*, *Falco lagopus*, *Strix*; Locality—India; Algeria; Bulgaria; Cornwall; Europe; Russia; Turkistan; U.S.A. (401)

459. **S. nanus** Maplestone, 1931.

Host—*Brachypterus benghalensis* (= *B. aurantius*); Location—gizzard; Locality—India—Calcutta Zoo, W.B. (292)

Family ANCYRACANTHIDAE Railliet, 1916.

Subfamily SCHISTORPHINAE Travassos, 1918.

460. **Cathematella blanocephala** (Gendre, 1922) Yamaguti, 1961.

Syn. *Torquatella blanocephala* Gendre, 1922.

Host—*Merops malimbicus*, *M. orientalis*; Locality—Bangla Desh—Dacca; Dahomey, Africa. (168)

461. **C. longiovata** (Ali, 1957) Yamaguti, 1961.

Syn. *Torquatella longiovata* Ali, 1957.

Host—*Merops orientalis*; Location—gizzard; Locality—India—Hyderabad, A.P. (26)

462. **C. singhi** (Rasheed, 1960) n. comb.

Syn. *Torquatella singhi* Rasheed, 1960.

Host—*Dicrurus macrocercus*; Location—gizzard; Locality—India—Hyderabad, A.P. (384)

463. **C. torquata** (Gendre, 1922) Yamaguti, 1961.

Syn. *Spiroptera concocephala* Molin, 1860; *Torquatella torquata* Gendre, 1922.

Host—*Centropus monachus*, *C. sinensis*; Location—gizzard; Locality—India—Africa. (167)

464. **Krusadia indica** Sanwal, 1952.

Host—*Caprimulgus indicus*; Location—intestine; Locality—India—Krusadai Island (S. India). (418)

465. **Stellocaronema buckleyi** Sarwar, 1956.

Host—*Vanellus indicus* (= *Lobivanellus indicus*); Location—intestine; Locality—Pakistan—West Punjab. (425)

466. **S. indica** Sharma, 1968.

Host—*Vanellus indicus indicus*; Location—stomach; Locality—India—Bareilly, U.P. (435)

467. **Viguiera dicrurusi** Gupta, 1960.

Host—*Dicrurus macrocercus albiretus*; Location—stomach; Locality—Bangla Desh—Dacca. (181a)

468. **V. euryoptera** (Rudolphi, 1819) Seurat, 1913.
 Syn. *Spiroptera euryoptera* Rudolphi, 1819; *Acuaria lamiorum* Molin, 1860.
 Host—*Dendrocitta vagavanda*, *Dicrurus caerulescens*; *Lanius collurio*,
L. excubitor, *L. minor*, *L. rufus*, *L. vittatus*; Locality—Pakistan—
 Lahore; Africa; Europe. (401)
469. **V. leiperi** Ali, 1954.
 Host—*Terpsiphone paradisi* (= *Tehitred paradisi*); Location—
 gizzard; Locality—India—Hyderabad, A.P. (25)
- Family TROPISURIDAE Yamaguti, 1961.
470. **Tropisurus alii** (Sultana, 1962) n. Comb.
 Syn. *Tetrameres (Gynaecophila) alii* Sultana, 1962.
 Host—*Riparia paludicola brevicaudata*; Location—lumen and cyst
 in proventriculus; Locality—India—Hyderabad, A.P. (500)
471. **T. cordoniferens** (Rasheed, 1960) n. Comb.
 Syn. *Tetrameres (P.) cordoniferens* Rasheed, 1960.
 Host—*Dendrocygna javanica*; Location—proventriculus; Locality
 —Hyderabad, A.P. (384)
472. **T. fissispinus** (Diesing, 1861) Neumann, 1888.
 Syn. *Tetrameres fissispina* Diesing, 1861; *Acanthophorus horridus* Linstow,
 1876; *A. tenuis* Linstow, 1876; *Filaria pulicis* Linstow, 1894.
 Host—*Acuta acuta* (= *Dafila acuta*); *Anas boschar*, *A. querquedula*
 (= *Querquedula querquedula*), *Alectoris*, *Clangula clangula*, *Columba*
livia, *Cygnus melanocoryphus*, *Fulica atra*, *Meleagris gallopavo*, *Merganser*,
Mergus, *Nycticorax*, *Nyrocaferina*, *Oidemia*, *Perdix*, *Podiceps*, *Somateria*
mollissima, Chicken, Turkey; and Ducks; Locality—India; Kabul;
 Africa; America; Canton; Europe; Formosa; Guam, Malaya;
 Philippines; Russia; Siberia; Turkistan. (142)
473. **T. minutes** (Rasheed, 1960) n. Comb.
 Syn. *Tetrameres (Gynaecophila) minutes* Rasheed 1960.
 Host—*Ardeola grayii*; Location—proventriculus; Locality—India
 —Hyderabad, A.P. (384)
474. **T. mohtedai** (Bhalerao and Krishna Rao, 1944) Campana, 1948.
 Syn. *Tropisurus montenai* Bhalerao and Krishna Rao, 1944.
 Host—*Gallus* (=fowl), duck; Locality—India—Hyderabad, A.P.;
 Mathura, U.P. (77)
475. **T. monospicules** (Rasheed, 1960) n. Comb.
 Syn. *Tetrameres (G.) monospicules* Rasheed, 1960.
 Host—*Prophyrio poliocephalus*; Location—proventriculus; Locality
 —India—Hyderabad, A.P. (384)

476. **T. singhi** (Rasheed, 1960) n. Comb.
 Syn. *Tetrameres* (G.) *singhi* Rasheed, 1960.
 Host—*Ciconia ciconia*; Location—proventriculus; Locality—India—Hyderabad, A.P. (384)
477. **T. spinosus** (Maplestone, 1931) Yamaguti, 1961.
 Syn. *Echinuria spinosa* Maplestone, 1931.
 Host—*Aythya ferina* (= *Nyroca ferina*), *Gallus domesticus*, and an unidentified duck; Locality—India—Calcutta Zoo, W.B.; Afghanistan—Kabul. (292)
478. **Geopetitia chabaudi** Rasheed, 1960.
 Host—*Copsychus saularis*, *Turdoides terricolor*; Location—outer wall and proventriculus; Locality—India—Hyderabad, A.P. (384)
479. **Microtetrameres inermis** (Linstow, 1879) Travassos, 1915.
 Syn. *Tropidocerca inermis*, Linstow, 1879.
 Host—*Accipiter nisus* (= *Astur nisus*); *A. palumbarius*, *Brachypterus bengalensis*, *Corvus frugilegus*, *Leiopicus marhathensis blanfordi*, *Motacilla citreola*, *Pica pica*, *Temenuchus pagodarum*; Locality—India—Hyderabad, A.P.; Europe; Russia. (256)
- (T)480. **M. spiralis** (Seurat, 1915) Travassos, 1915.
 Syn. *Tropidocerca spiralis* Seurat, 1915; *Tetrameres* (*Microtetrameres*) *spirali* Travassos, 1915.
 Host—*Bubulcus ibis coromandus* (= *Bubulcus coromandus*); Location—outer wall and proventriculus; Locality—India—Calcutta Zoo, W.B. (433)
481. **M. (Gubernaculus) cephalatus** Sultana, 1962.
 Host—*Turdus merula nigropilens*; Locality—India—Hyderabad, A.P. (500)
482. **M. (G.) egretes** Rasheed, 1960.
 Host—*Egretta garzetta*; Locality—India—Hyderabad, A.P. (384)
483. **M. (G.) mirzai** Rasheed, 1960.
 Host—*Falco tinnunculus*; Locality—India—Hyderabad, A.P. (384)
484. **M. (G.) osmaniae** Rasheed, 1960.
 Host—*Accipiter nisus nisosimilis*; Locality—India—Hyderabad, A.P. (384)
485. **M. (G.) rasheedae** Sultana, 1962.
 Host—*Heirococcyx varius*; Location—proventriculus; Locality—India—Hyderabad, A.P. (500)
486. **M. (Microtetrameres) orioles** Rasheed, 1960.
 Host—*Oriolus oriolus*; Location—proventriculus; Locality—India—Hyderabad, A.P. (384)

487. **M. (M.) singhi** Sultana, 1962.
Host—*Falco jugger*; Location—proventriculus; Locality—India—Hyderabad, A.P. (500)
488. **M. (M.) travassosi** Rasheed, 1960.
Host—*Gracula religiosa*; Location—proventriculus; Locality—India—Hyderabad, A.P. (384)
- Order FILARIIDEA Yamaguti, 1961.
Family FILARIIDAE Claus, 1885.
Subfamily APROCTINAE Yorke and Maplestone, 1926.
489. **Aprocta anthicola** Linstow, 1903.
Host—*Anthus richardi*, *Buteo borealis borealis*; Locality—Sri Lanka; Mexico; N. China. (266)
- (T)490. **Lissonema andamanensis** Soota and Chaturvedi, 1971.
Host—*Centropus andamanensis*; Location—body cavity; Locality—India—Wrightmyo, South Andaman. (479)
491. **Pelecitus clava** (Wedl, 1856).
Syn. *Eulimadana clava* (Wedl, 1856) Founikoff, 1934; *Filaria clava* Wedl, 1856.
Host—*Columba domestica*; Location—blood; Locality—India; Asia; Europe. (527)
492. **P. falconis** (Rudolphi, 1819) Baylis, 1944.
Syn. *Spiroptera falconis* Rudolphi, 1819; *S. serpentulus* Diesing, 1851.
Host—*Falco rufipes*, *Pernis* sp.; Locality—India—Karnataka; Europe. (401)
493. **Pseudaprocta buckleyi** (Singh, 1949) Yeh, 1957.
Syn. *Buckleyfilaria buckleyi* Singh, 1949.
Host—*Copsychus saularis*; Location—body cavity; Locality—India—Hyderabad, A.P. (451)
494. **P. leiperi** (Rasheed, 1960) n. comb.
Syn. *Buckleyfilaria leiperi* Rasheed, 1960.
Host—*Dicrurus macrocercus*; Location—body cavity; Locality—India—Hyderabad, A.P. (384)
495. **P. mirzai** Sultana, 1964.
Host—*Motacilla maderaptensis*; Location—body cavity; Locality—India—Hyderabad, A.P. (502)
496. **P. skrjabini** (Ali, 1957) Yamaguti, 1961.
Syn. *Buckleyfilaria skrjabini* Ali, 1957.
Host—*Oriolus oriolus*; Location—body cavity; Locality—India—Hyderabad, A.P. (26)

497. **Squamofilaria choprai** Chauhan, 1946.

Host—Sea Tern; Location—lung; Locality—India—Addu Atoll, Maldiv Islands. (118)

498. **S. coronata** (Rudolphi, 1809) Schmerling, 1925.

Syn. *Filaria coronata* Rudolphi, 1809.

Host—*Coracias bengalensis*, *C. garrula*; Location—subcutaneous connective tissue; Locality—India—Hyderabad, A.P.; Egypt; Europe. (400)

- (T)499. **S. nepalensis** Soota and Chaturvedi, 1971.

Host—*Coracias bengalensis*, *Sturnus* sp., Location—near heart and furcula; Locality—India—Little Andaman; Nepal—Hitaura. (479)

APPENDIX TO APROCTINAE

500. **Bhalfilaria badamii** Bhalerao and Rao, 1944.

Host—Black Minorca Cock; Locality—India. (77)

Subfamily DICHEILONEMATINAE Wehr, 1935.

501. **Hamatospiculum alii** Rasheed, 1960.

Host—*Falco tinnunculus interstictus* (= *Cerchneis tinnunculus interstictus*), *Haliaetus leucoryphus*; Location—air sacs and body cavity; Locality—India—Hyderabad, A.P. (384)

- (T)502. **Hamatospiculum nepalensis** Soota and Chaturvedi, 1971.

Host—*Dicrurus hottentetus*; Location—neck; Locality—Nepal—Hitaura. (480, 480a)

Subfamily DIPTOTRIAENINAE Skrjabin, 1916.

503. **Diptotriaena bhamoensis** (Parona, 1889) Baylis, 1939.

Syn. *Filaria bhamoensis* Parona, 1889; *Diptotriaena chamoensis* Yorke and Maplestone, 1926.

Host—*Acridotheres albocinctus*; Location—liver, mesentry, testes; Locality—Burma—Bhamo. (342)

- (T)504. **D. chandragiriensis** Soota and Chaturvedi, 1971.

Host—*Monticola rufiventris*; Location—body cavity; Locality—Nepal. (477)

- (T)505. **D. dubia** (Maplestone, 1931) Baylis, 1939.

Syn. *Diptotriaena dubia* Maplestone, 1931.

Host—*Pyrrhocorax pyrrhocorax* (= *Graculus eremita*); Locality—India—Calcutta Zoo, W.B. (292)

- (T)506. **D. graculi** (Maplestone, 1931) Baylis, 1939.
Syn. *Diplotriaeia graculi* Maplestone, 1931.
Host—*Pyrrhocorax pyrrhocorax* (= *Graculus eremita*); Locality—India—Calcutta Zoo, W.B.; Russia. (292)
507. **D. indica** Singh, 1962.
Host—*Garrulus lanceolatus*; Location—abdominal cavity; Locality—India—Mukteswar, Kumaun, U.P. (443)
508. **D. kennedyi** Grewal, 1965.
Host—*Molpastes hurmenicus*; Locality—India—Chandigarh. (177)
509. **D. kumaunensis** Singh, 1962.
Host—*Zoothera mollissima* (= *Oreocinclla mollissima*); Location—abdominal cavity; Locality—India—Mukteswar, Kumaun, U.P. (443)
- (T)510. **D. mirzapurensis** Soota and Chaturvedi, 1967.
Host—*Acridotheres tristis tristis*, *Crypsirina formosana himalayensis*; Location—coelomic cavity; Locality—India—Mirzapur, U.P.; Nepal—Thankot. (472)
511. **D. molopastisi** Majumdar and Chakravorty, 1963.
Host—*Molopaster cafer bengalensis*; Location—body cavity; Locality—India—Calcutta, W.B. (Purchased host). (283a)
512. **D. mukteswarensis** Singh, 1962.
Host—*Myiophoneus caeruleus temminckii*; Location—abdominal cavity; Locality—India—Mukteswar, Kumaun, U.P. (443)
513. **D. nagpurensis** Karve, 1934.
Host—*Acridotheres t. tristis*, *Temenchus pagodarum*, *Turdoides turdoides*; Location—body cavity; Locality—India—Aligarh, U.P., Nagpur, Maharashtra. (210)
514. **D. nepalensis** Soota and Chaturvedi, 1967.
Host—*Myiophoneus caeruleus temmenckii*; Location—coelomic cavity near heart; Locality—Burhanilkanth, Nepal. (472)
515. **D. nocti** Hoeppli and Hsu, 1929.
Host—*Acridotheres crystallus*, *A. ginginianus*, *A. javanicus*, *A. t. tristis*, *Aethiopsar*, *Cristatellus brevipensis*, *Paster roseus*, *Spodiopsar cinereus*, *Sturnopaster capensis*, *Sturnus vulgaris*; Locality—Pakistan; Amoy Isl.; Cairo Zoo; China; Russian Far East; Tonken. (192)
516. **D. obtusa** (Rudolphi, 1802).
Syn. *Filaria obtusa* Rudolphi, 1802.
Host—*Alauda arvensis*, *Delichon urbica*, *Hirundo rustica*, *Hirundo* sp.; *Riparia riparia*; Locality—Africa; America; Asia; Europe; Greifswald; W. Siberia. (397)

517. **D. singhi** Soota, 1970. (emended)
Host—*Saxicola caprota bicolor*; Location—body cavity; Locality—India—Hissar, Haryana. (471)
518. **D. sturnopastori** Majumdar and Chakravorty, 1963.
Host—*Sturnus contra* (= ? *Sturnopaster contra*) (Pied Myna.); Location—body cavity; Locality—India—Calcutta, W.B. (Purchased host). (283a)
- (N)519. **D. tricuspis** (Fedchenko, 1874) Seurat, 1915.
Syn. *Filaria tricuspis* Fedchenko, 1874; *Aprocta tricuspis* Linstow, 1905; *Diplotriaenia acridotheri* Karve, 1934.
Host—*Acridotheres ginginianus*, *A. t. tristis*, *Acrithotheres* sp., *Alauda*?, *Blanosphyra*, *Corvus* sp., *Columba* sp., *Cynocorax*, *Cynopica*, *Cysticola*, *Delichon*, *Falco*, *Garrulus*, *Hirundo*, *Lanius vittatus*, *Lullula*, *Nucifraga*, *Oenanthe oenanthe*, *Parus palustris*, *Pica*, *Sylvia*, *Trochalopteron jerdoni atricapilla*, *Turdus* sp. etc. Locality—India—Aligarh, U.P.; Barasat, W.B.; Hyderabad, A.P.; Africa; Asia; China; Europe; West Siberia; U.S.A., Yugoslavia. (154)
520. **D. tristisi** Majumdar and Chakravorty, 1963.
Host—*Acridotheres t. tristis*; Location—body cavity; Locality—India—Calcutta, W.B. (Purchased host) (283a)
- (T)521. **D. urocissae** (Maplestone, 1931) Baylis, 1939.
Syn. *Diplotriaenia urocissae* Maplestone, 1931.
Host—*Cissa flavirostris* (= *Urocissa flavirostris*); Location—body cavity; Locality—India—Calcutta Zoo, W.B. (292)

Family HAMULOFILARIIDAE Soota and Chaturvedi, 1970.

- (T)522. **Hamulofilaria indica** Chandler, 1924.
Host—*Cissa chinensis*; Locality—India—Calcutta Zoo, W.B. Nepal. (107)

Family DIPETALONEMATIDAE Wehr, 1935.

Subfamily ONCOCERCINAE Leiper, 1911 (nom. emend. Yamaguti, 1961).

523. **Lemdana alii** Sultana, 1961.
Locality—India. (498)
- (T)524. **L. bengalensis** Soota and Chaturvedi, 1971.
Host—*Lanius cristatus*, *L. scach*; Location—body cavity, heart; cranium; Locality—India—Saltlake near Calcutta, W.B., Monghyr, Bihar; Nepal—Thankot. (479)
525. **L. singhi** Sultana, 1961.
Locality—India. (498)

526. **Paroncocerca mirzai** Ali, 1957.
Host—*Centropus sinensis*; Location—heart; Locality—India—Hyderabad, A.P. (26)
- Subfamily SPLENDIDOFILARIINAE Chabaud and Choquet, 1953.
527. **Aproctoides alii** Sultana, 1961.
Locality—India. (497)
528. **A. lissa** Chandler, 1929.
Host—*Copsychus saularis*; Location—orbital cavity; Locality—India—Calcutta Zoo, W.B. (111)
529. **A. papillata** Ali, 1957.
Host—*Francolinus pictus*; Location—lungs; Locality—India—Hyderabad, A.P. (26)
530. **Cardiofilaria nilesi** Dissanaïke and Fernando, 1965.
Host—Chicken (experimental), *M. carssipes* (Natural vector); Location—body cavity; Locality—Sri Lanka—Hakkandara. (143)
531. **Eufilaria asiatica** Singh, 1949.
Host—*Corvus splendens*; Location—subcutaneous connective tissue; Locality—India—Hyderabad, A.P. (451)
532. **E. buckleyi** Rasheed, 1960.
Host—*Caprimulgus asiaticus*; Location—body cavity; Locality—India—Hyderabad, A.P. (384)
533. **E. sergenti** Seurat, 1921.
Host—*Garrulax leucolophus*, *Passer hispaniolensis*, *Serinus serinus*; Locality—India—Himalaya; Algeria. (434)
534. **Lalage sykesii** Sultana, 1961.
Locality—India. (497)
535. **Lerouxinema lerouxi** Singh, 1949.
Host—*Galloperdix spadicea*; Location—blood, heart; Locality—India—Hyderabad, A.P. (451)
536. **Paramicipsella brevispiculum** (Singh, 1949) Chabaud and Choquet, 1953.
Host—*Halcyon smyrnensis*, *Streptopelia decato*; Location—heart; Locality—India—Hyderabad, A.P. (451)
537. **Paraprocta brevicauda** (Chandler, 1924) Maplestone, 1931.
Syn. *Filaria brevicauda* Chandler, 1924.
Host—*Arboscicola atragularis*, *Cissa chinensis*, *Copsychus saularis*, *Coracius indica*, *Dendrocitta rufa*, *Oriolus indicus*, *Polyplectrum bicalcaratum*; Locality—India—Calcutta Zoo, W.B. (107)

538. **Splendidofilaria alii** Sultana, 1962.
Locality—India. (499)
539. **S. bosei** (Chandler, 1924).
Syn. (T) *Filaria bosei* Chandler, 1924; *Chandlerella bosei* Chandler, 1924.
Host—*Corvus* sp., *Dissemurus paradipeus*, *Falco tinnunculus* Pica, *pica*, *Certhis familiaris*; Locality—India; America; Russia. (107)
540. **S. kashmirensis** Amir and Ali, 1960.
Host—*Molpastes leucogenys*; Location—body cavity, heart; Locality—India—Kashmir. (34)
541. **S. sinensis** (Li, 1933).
Host—*Corvus macrorhynchus*, *C. sinensis*; Location—lung, trachea; Locality—India—Hyderabad, A.P.; China—Peiping. (251)
542. **S. singhi** Sultana, 1962.
Locality—India. (499)
- Subfamily FILARIINAE Stiles, 1907.
- *543. **Paraicosiella coturnyx** Majumdar and Chakravorty, 1963.
Host—*Coturnix coturnix*; Location—body cavity; Locality—India Calcutta, W.B. (Purchased host). (283a)

APPENDIX TO FILARIINAE

544. **Ameeria sultanae** Ali, 1961.
Host—*Tocus hirostris*; Locality—India. (29)
545. **Gallifilaria mhowensis** Jain, Alwar, Awadhiya and Pandit, 1965.
Host—*Gallus gallus domesticus*; Location—heart; Locality—India. (201)
546. **Singhifilaria pavonica** Rasheed, 1960.
Host—*Pavo cristatus*; Locality—India—Hyderabad, A.P. (384)

Order PHILOMETRIDEA Yamaguti, 1961.
Family DRACUNCULIDAE Leiper, 1912
Subfamily AVIOSERPENTINAE Chitwood, 1935

547. **Avioserpens multipapillosa** Singh, 1949.
Host—*Ardeola grayii*; Location—underneath skin of neck; Locality—Hyderabad, A.P. (451)

* Majumdar and Chakravorty, 1963, kept this genus in subfamily Setarinae.

SPECIES INCERTAE SEDIS IN BIRDS

548. "**Chandlerella**" **alii** Sultana, 1962.
Locality—India. (499)
549. "**C.**" **buckleyi** Sultana, 1962.
Locality—India. (499)
550. "**C.**" **howkingi** Chatterjee, Sen and Bhattacharya, 1965.
Host—*Corvus macrorhynchus*; Locality—India. (117)

NEMATODES OF MAMMALS

Order RHABDIASIDEA Railliet, 1916.

Family STRONGYLOIDIDAE Chitwood and McIntosh, 1934.

551. **Strongyloides akbari** Mirza and Narayan, 1935.
Host—*Crocidura caerulea*, *Mellivora indica*; Locality—India—Mathura, U.P. (312)
552. **S. bovis** Vryburg, 1907.
Host—Cattle; Locality—India—Delhi; Sumatra. (521)
553. **S. felis** Chandler, 1925.
Syn. (T) *S. sterocoralis* var. *felis* Chandler, 1925.
Host—*Felis* sp. (=Domestic cat); Location—upper part of duodenum; Locality—India—Calcutta, W.B. (109)
554. **S. papillosus** (Wedl, 1856) Ransom, 1911.
Syn. *Trichosoma papillorum* Wedl, 1856; *Rhabdonema longus* Grassi, 1885; *Strongyloides longus* Rovelli, 1888; *Rhabdonema longum* Railliet, 1893; ? *R. suis* Dolley, 1894; ? *Strongyloides suis* Linstow, 1905; ? *S. fulleborni* Linstow, 1905; ? *S. cebus* Darling, 1911; ? *S. ovocinctus* Ransom, 1911; *S. longus bovis* Gaspari, 1912; ? *S. vituli* Brumpt, 1921; ? *S. simiae* Hung and Hoppli, 1923.
Host—*Bos* sp. (=Ox), *Camelus* sp. (=Camel), *Capra* sp. (=Goat), *Damaliscus* sp., *Hylobates*, *Lepus* sp., *Macaca* sp., *Mephitis* sp., *Mustela* sp. (=Luteola), *Myocastor* sp. (=Myopotamus sp.), *Nutria* sp., *Okapia* sp., *Oryctolagus* sp., *Ovis* sp., *Rattus* sp. (=Rat); Location—intestine; Locality—India—Calcutta Zoo, W.B.; Cosmopolitan. (527)
555. **S. stercoralis** (Bavay, 1876) Stiles and Hassall, 1902.
Syn. *Anguillula stercoralis* Bavay, 1876; *Rhabditis stercoralis* Bavay, 1876; *Anguillula intestinalis* Bavay, 1877; *Strongyloides intestinalis* Grassi, 1879; *Leptodera intestinalis* Cobbold, 1879; *L. stercoralis* Cobbold, 1879; *L. (Anguillula) stercoralis* Cobbold, 1879; *Rhabditis intestinalis* Orley, 1880; *Pseudorhabditis stercoralis* Perroncito, 1880; *P. intestinalis* Perroncito, 1881; *Rhabdonema strongyloides* Leukart, 1883; *Rhabditis (Anguillula) intestinalis* Braun, 1883; *Rhabdonema hominis* Lutz, 1887; *R. intestinalis* Blanchard, 1888; *Leptodera strongyloides* Rolleston, 1888; *Strongyloides (Rhabdonema) intestinalis* Calandrucis, 1889; *Rhabditis strongyloides* Blanchard, 1890; *Rhabdonema stercoralis* Manson, 1903; *Anguillula strongyloides* Clandrucio,

1904; *Stercoralis intestinalis* Tanaka, 1910; ? *Strongyloides canis* Brumpt, 1922; *S. stercoralis canis* Chandler, 1925; *S. s. eryxi* Mirza and Narayan, 1935; *S. s. vulpi* Mirza and Narayan, 1935.

Host—Apes, cat, dog, hylobates, man, monkeys and *Vulpes* sp.; Location—duodenum, intestine; Locality—India—W.B.; Madras Orissa; Burma; Sri Lanka; Cosmopolitan. (48)

Order TRICHURIDEA Yamaguti, 1961.

Family TRICHURIDAE Railliet, 1915.

Subfamily TRICHURINAE Ransom, 1911.

556. **Trichuris cyanocephalus** Khera, 1951.

Host—*Papio hamadryas* (= *Cyanocephalus hamadryas*); Location—appendix; Locality—India—Lucknow Zoo, U.P. (220)

557. **T. discolor** (Linstow, 1906) Ransom, 1911.

Syn. *Trichocephalus discolor* Linstow, 1906; *Trichuris discolor* Taylor, 1924.

Host—*Bos indicus*, *Babalus* sp., *Okapia* sp., Zebu; Locality—Sri Lanka—Colombo; Europe; Japan; U.S.A. (270)

558. **T. globulosa** (Linstow, 1901) Ransom, 1911.

Syn. *Trichocephalus globulosus* Linstow, 1901; ? *T. cameli* Rudolphi, 1819; ? *T. echinophyllus* Nitzsch, 1849; ? *T. echinophyllus* Railliet, 1893; ? *T. alcocki* Linstow, 1906; ? *Trichuris alcocki* Ransom, 1911; ? *T. cameli* Ransom, 1911.

Host—*Alces alces*, *Bos indicus*, *B. taurus*, *Camelus dromedarius*, *Capra* sp., *Capra hircus*, *Cervus eldi*, *Cervus* sp., *Gazella* sp., *Hylobates* sp., *Okapia* sp., *Ovis aries*, *Ovis* sp., *Rupicapra rupicapra*, Giraffe; Locality—India—Calcutta, W.B.; Africa; Argentina; Australia; China; Europe. (263)

559. **T. indica** Sarwar, 1946.

Host—*Bos indicus*, *Bubalus bubalis*; Locality—India. (423)

560. **T. muris** (Schränk, 1788) Brugiere, 1791.

Syn. *Trichocephalus muris* Schränk, 1788; *T. nodosus* Rudolphi, 1809.

Host—Mice and Rats; Location—intestine; Locality—India; Africa; Caucasus; Europe; Indo-china; Iraq; N. America; Panama. (427)

561. **T. nigricollis** Soota and Chaturvedi, 1971.

Host—*Lepus nigricollis*; Location—intestine; Locality—India—Nishangarh, Behraich, U.P. (480)

562. **T. ovina** Sarwar, 1945.

Host—*Capra hircus*, *Ovis aries*; Locality—India?. (422)

563. **T. ovis** (Abildgaard, 1795) Smith, 1908.

Syn. *Trichocephalus ovis* Abildgaard, 1795; *T. affinis* Rudolphi, 1802; (N) *Mastigodes affinis* Zeder, 1803.

Host—*Antelope*, *Bison*, *A. alces*, *Bos* sp. (=Cattle), *Camelus* sp., *Capra hircus*, *Capra* sp., *Cervus elaphus*, *Cervus eldi*, *Damaliscus* sp., *Gazella* sp., *Lama* sp., *Cephalophus* sp., *Macaca* sp., *Odocoileus* sp., *Qurebia* sp., *Tragelophus* sp., *Hydropotes* sp., *C. capreolus*, *Nemorhaedus goral*; Locality—India—Bangalore, Mysore; Bombay, Maharashtra; Calcutta, W.B.; Madras; M.P.; Punjab; Africa; Australia; China; Cyprus; Europe; Mangolia; Newzealand; Pakistan; Philippines; Indonesia; North and South America; Siberia; Puerto Rico. (537)

564. **T. parvispiculum** Ortlepp, 1937.

Host—*Capra hircus*, *Ovis aries*; Locality—India; Australia; S. Africa. (334)

565. **T. trichiura** (Linnaeus, 1771) Stiles, 1901.

Syn. *Ascaris trichiura* Linnaeus, 1771; *Trichocephalus hominis* Schrank, 1788; *T. suis* Schrank, 1788; *T. apri* Gmelin, 1790; *Trichuris hominis* Bruguire, 1791; *T. vulgaris* Hooper, 1799; *T. intestinalis* Hooper, 1799; *Trichocephalus hominis* Lamark, 1801; *N.T. dispar* Rudolphi, 1802; *Mastigodes apri* Zeder, 1803; *T. eremitus* Rudolphi, 1809; *T. hominis* Baird, 1853; *Ascaris trichina* Moquintandon, 1860; *Trichocephalus trichiurus* Blanchard, 1895; *T. dispar* Daniels, 1897; *T. trichuris* Simon, 1907; *T. dispar* Kahane, 1907; *Trichuris suis* Smith, 1908; *T. cenata* Geddoelst, 1911; *Trichiurus trichiura* Castellani and Chalmerus, 1913; *Trichocephalus trichiurus* Matta, 1914; *T. trichiurius* Maxwell, 1916; *T. trichiurus* Bhalerao, 1935.

Host—*Cercopithecus pygerythrus*, *Hylobates*, Man, Primates, *Presbytes entellus*, *Sus scrofa cristatus*, *Sus scrofa*, *Sus* sp. (=Swine); Locality—India—Calcutta, W.B.; Dinapur, Bihar; Kenya, S. Africa. (255)

566. **T. vulpis** (Frolich, 1789) Smith, 1908.

Syn. *Trichocephalus vulpes* Frolich, 1789; *T. depressinsculus* Rudolphi, 1809.

Host—*Canis* sp. (=Dog), *Nyctereutes* sp., *Vulpis* sp., (=Fox); Locality—India?; Cosmopolitan. (159)

Subfamily CAPILLARINAE Railliet, 1915.

567. **Capillaria bilobata** Bhalerao, 1933.

Host—*Bos indicus*, *Capra* sp.; Location—abomasum; Locality—India—Mukteswar, U.P. (72)

568. **C. bandicooti** Niphadkar, 1970.

Host—*Bandicota bengalensis*; Location—intestine; Locality—India—Bombay, Maharashtra. (328a)

569. **C. caeruleii** Gupta and Sood, 1970.

Host—*Crocidura caerulea*; Location—intestine; Locality—India—Lucknow, U.P. (184)

570. **C. cameroni** Gupta, Pande and Kela, 1963.

Host—*Felis chaus*; Location—urinary bladder; Locality—India—Mathura, U.P. (186)

571. **C. freitasi** Singh, 1962, sp. inq.
Host—*Rattus norvegicus*; Locality—India—Mukteswar, Kumaun, U.P. (444)
572. **C. hepatica** (Bancroft, 1894) Travassos, 1915.
Syn. *Trichosomus tenuissimum* Leidy, 1891; *Trichocephalus hepaticus* Bancroft, 1894; *Trichosomum hepaticum* Railliet, 1898; *Trichosoma hepaticum* Gallivalerio, 1901; *Capillaria leidy* Travassos, 1915; *Hepaticola hepatica* Hall, 1916; *H. anthropopitheci* Troisier Deschiens, Limousin and Delarme, 1928.
Host—apes, cats, dogs, insectivores, man and rodents; Locality—India; Cosmopolitan. (37)
573. **C. nycticeiuse** Agrawal, 1965.
Host—*Nycticeius kuhli*; Location—intestine; Locality—India—Lucknow, U.P. (5)
574. **C. prashadi** Maplestone and Bhaduri, 1942.
Host—*Rattus norvegicus* (= *Mus decumanus*); Locality—India—Calcutta, W.B. (299)

Family TRICHOSOMOIDIDAE Yorke and Maplestone, 1926.

575. **Trichosomoides crassicauda** (Bellingham, 1840)? Railliet, 1895.
Syn. *Trichosoma crassicauda* Bellingham, 1840.
Host—rats; Locality—India; Cosmopolitan. (67)

Family TRICHINELLIDAE Ward, 1907.

Subfamily TRICHINELLINAE Ransom, 1911.

576. **Trichinella spiralis** (Owen, 1925) Railliet, 1895.
Syn. *Trichina spiralis* Owen, 1825; *Trichine spiralis* Bischoff, 1840; *Trichinia spiralis* Bischoff, 1840; *T. affinis* Diesing, 1851 (part); *T. spiralis hominis* Kralmer, 1853; *T. circumflexa* Dengler, 1863; *T. pseudalius* Dengler, 1863; *Pseudalius trichina* Davaine, 1863; *Trichine spirale* Bert and Blanchard, 1885.
Host—*Bos* sp. (=ox), *Camelus* sp., *Canis* sp. (=dog), *Capra* sp. (=goat), *Cricetulus* sp., *Erinaceus* sp., *Felis* sp., Hippopotamus, *Lepus* sp., Man, *Meles* sp., *Mus* sp., *Mustela* sp., *Ovis* sp., *Procyon* sp., *Rattus* sp., *Sorex* sp., *Sus* sp., *Talpa* sp.; Location—intestine; Locality—India; Cosmopolitan. (336)

Order STRONGYLIDEA Diesing, 1851.

Family STRONGYLIDAE Baird, 1853.

Subfamily STRONGYLINAE Railliet, 1893.

- (N)577. **Strongylus equinus** Muller, 1780.

Syns. *Sclerostoma asininus* Viborg, 1795; *Strongylus equorum* Zeder, 1800; *S. armatus* Rudolphi, 1802; *S.a. major* Rudolphi, 1809; *Sclerostoma equinum* Blainville, 1828; *Sclerostomum quadridentatum* Dujardin, 1845; *Piguris armatum* Ward, 1895; *Sclerostoma neglectus* Poeppel, 1897.

Host—Equines—Donkey, Horse, Mule, Zebra; Location—caecum, colon and circulatory apparatus; Locality—India—Bangalore, Mysore; Mukteswar, U.P.; Punjab; Afghanistan; Burma; Sri Lanka—Colombo; Cosmopolitan. (327)

- (N)578. **Alfortia edentata** (Looss, 1900) Skrjabin, 1933.

Syn. *Sclerostoma edentatum* Looss, 1900.

Host—Equines—*Equus* sp.; Location—caecum and colon; Locality—India—Bombay, Maharashtra; Mukteswar, U.P.; Punjab, Cosmopolitan. (277)

579. **Choniangium epistomum** (Piana, 1900) Railliet and Henry, 1914.

Syn. *Sclerostoma epistomum* Piana, 1900; *Asifia vasia* Lane, 1914.

Host—*Elephas maximus indicus* (=Indian Elephant); Location—caecum; Locality—India—Murshidabad, W.B.; Orissa. (345)

580. **C. magnostomum** Vander Westhysen, 1938.

Host—*Elephas maximus indicus*; Locality—India? (532)

581. **Decrusia additicta** (Railliet, Henry and Bauche, 1914) Lane, 1915.

Syn. *Strongylus additictus* Railliet, Henry and Bauche, 1914; *Decrusia decrui* Lane, 1914; *D. additicta* Railliet, Henry and Bauche, 1915; *D. additictia* Khalil, 1922.

Host—*Elephas maximus indicus*; Location—large intestine; Locality—India—Madras; Malabar, Kerala; Orissa; Travancore, Kerala; Burma; Indochina. (369)

- (N)582. **Delafondia vulgaris** (Looss, 1900) Skrjabin, 1933.

Syn. *Sclerostoma vulgare* Looss, 1900; *S. bidentatum* Sticker, 1901.

Host—Equines, *Equus* sp. (=Horse); Locality—India—Bombay, Maharashtra; Madras; Mukteswar, U.P.; Punjab; Cosmopolitan. (277)

- (N)583. **Equinurbia sipunculiformes** (Baird, 1819) Lane, 1914.

Syn. *Sclerostoma sipunculiformes* Baird, 1819; *S. sipunculiferum* Cobbold, 1879; *Cyliostomum sipunculiforme* Railliet, Henry and Bauche, 1914.

Host—*Elephas maximus indicus*; Location—caecum and intestine; Locality—India—Angul, Orissa; Andaman; Bengal; Madras; Malabar, Kerla; Burma; Sri Lanka. (36)

584. **Oesophagodontus robustus** (Giles, 1892) Railliet and Henry, 1902.

Syn. *Sclerostoma robustum* Giles, 1892; *Pseudosclerostomum securiferum* Quiel, 1919.

Host—Equines (=Horse, Mule, Zebra); Location—caecum and colon; Locality—India—Punjab; Cosmopolitan. (169)

585. **Tridentophorus brevicauda** Boulenger, 1916.

Host—*Equus* sp.; Location—colon; Locality—India—Punjab; Pakistan; Cosmopolitan. (84)

586. **T. minor** (Looss, 1900) Looss, 1902.

Syn. *Triodontus minor* Looss, 1900.

Host—*Equus* sp.; Location—colon; Locality—India—Punjab; Pakistan—Sargodha; Cosmopolitan. (277)

587. **T. serratus** (Looss, 1900) Looss, 1902.

Syn. *Triodontus serratus* Looss, 1900; *Tridontophorus intermedius* Sweet, 1909, Locality—India—Punjab; Pakistan—Sargodha; Cosmopolitan. (277)

588. **T. tenuicollis** Boulenger, 1916.

Locality—India; Pakistan—Lahore; Cosmopolitan. (84)

Subfamily GLOBOCEPHALINAE Travassos and Vogelsang 1932.

589. **Globocephalus cornorfilii** Lane, 1922.

Host—*Sus* sp. (=Pig); Location—small intestine; Locality—India—Calcutta, W.B.; Samoa. (240)

- (N)590. **G. urosubulatus** (Alessandrini, 1909).

Syn. *Crassisoma urosubulatus* Alessandrini, 1909; *Characostomum amucronatum* Smit and Noto-Socdiro, 1926; *Globocephalus amucronatus* Smit and Ihle, 1928.

Host—*Sus scrofa* (=Pig), *Sus scrofa cristatus*; Location—small intestine; Locality—India—Calcutta, W.B.; Hardoi, U.P.; Canton; Europe; Italy; Luzon, Puerto Rico; U.S.A., Virgin Island. (22)

- (N)591. **Raillietostongylus samoensis** (Lane, 1922) Lane, 1923.

Syn. *G. samoensis* Lane, 1922.

Host—*Sus scrofa* (=Pig), *Sus cristatus*; Location—small intestine; Locality—India—? Calcutta, W.B.; Samoa. (240)

Family ANCYLOSTOMATIDAE Nicoll, 1927.

Subfamily ANCYLOSTOMATINAE Nicoll, 1927.

592. **Ancylostoma braziliense** Gomez de Faria, 1910.

Syn. *Ankylostome braziliense*, Gedoelst, 1911; *Uncinaria braziliensis*, Railliet 1911; (N) *Agchylostoma ceylanicum* Looss, 1911; (N) *Ankylostoma ceylanicum* Lane, 1913; *Agchylostoma braziliense* Gomez de Faria, 1914; *Ancylostoma ceylanicum* Leiper, 1915; (N) *A. (Ceylancylostoma) ceylanicum* Lane, 1916.

Host—*Aelurus fulgens*, *Canis pallipes*, *Canis* sp. (=dog), *Cuon alpinus dukhunensis* (= *Cyon dukhunensis*), *Felis bengalensis*, *F. viverrina*, *Felis* sp., Man, *Melursus ursinus*, *Panthera leo*, *P. pardus*, *P. tigris*, *Viverricula indica malaccensis*; Location—intestine; Locality—India—Berham-pur, Calcutta and Darjeeling, W.B.; Africa; China; Formosa; Japan; Korea; North America; Philippines; Puerto Rico; Siam; U.S.A. (173)

(N)593. **A. caninum** (Ercolani, 1859) Linstow, 1889.

Syn. *Strongylus tubaeformis* Zeder, 1800; *S. trigonocephalus* Rudolphi, 1808 (Part); *Dochmiais trigonocephalus* (Rudolphi, 1859) of Ercolani (Part); *Sclerostoma caninum* Ercolani, 1859; *Strongylus caninus* Ercolani, 1859; *Dochmius balsami* Parona and Grassi, 1877; *Uncinaria trigonocephala* Railliet, 1885; *Ankylostomum tubaeforme* Linstow, 1885; *Ankylostoma trigonocephelum* Blanchard, 1888; *Ankylostomum trigonocephalum* Linstow, 1889; *A. caninum* Linstow, 1889; *Ankylostoma caninum* Ward, 1895; *Anchylostomum trigonocephalum* Looss, 1897; *Uncinaria tubaeformis* Galli Valerio, 1898; *U. canina* Railliet, 1900; *Agchylostoma caninum* Stiles, 1903; *Anchylostoma caninum* Loeb and Smith, 1904; *Ancylostomum caninum* Goez de Faria, 1910; *Ancylestoma* (*A.*) *caninum* Lane, 1916.

Host—*Canis aureus*, *Canis lupus pallipes*, *Canis* sp., *Cuon alpinus dukhunensis* (= *Cyon dukhunensis*), *Felis viverrina*, *Felis* sp. (= Cat), *Megalotes* sp. (= *Fennecus*); *Melursus ursinus*, rarely in Man, *Sus* sp., *Vulpes bengalensis*, *V. vulpes pusilla* (= *Vulpes leucopus*), *Panthera pardus*, *P. tigris*, *Procyon* sp.; Location—intestine; Locality—India—Aligarh and Mukteswar, U.P.; Bombay, Maharashtra; Calcutta, W.B.; Punjab; Sri Lanka; Cosmopolitan. (151)

594. **A. duodenale** (Dubini, 1843) Creplin, 1845.

Syn. *Agchylostoma duodenale* Dubini, 1843; *Anchylostomum duodenale* Diesing, 1851; *Strongylus quadridentatus* Siebold, 1851; *Ancylostomum duodenale* Siebold, 1851; *Agchylostoma duodenale* Diesing, 1861; *Sclerostoma duodenale* Cobbold, 1864; *Strongylus duodenalis* Leuckart, 1867; *Ankylostomum duodenale* Bugnion, 1880; *Uncinaria duodenalis* Railliet, 1885; *Ankylostoma duodenalis* Lutz, 1885; *A. duodenojejunale* Leichtenstern, 1886; *Dochmius duodenalis hominis* Poeppel, 1897; *Ankylostoma hominis* Leichtenstern, 1898; *Uneinaria hominis* Ashford, King and Gutierrez, 1904; *Ancylostoma* (*A.*) *duodenale* Lane, 1916.

Host—*Canis* sp. (= dog), Chimpanzee, *Panthera tigris*, *F. viverrina* (= Fishing cat), *Gorilla*, *Hylobates* sp., *Macaca* sp., Man, *Sus scrofa cristatus*; Location—intestine; Locality—India—Berhampore, Calcutta, Darjeeling, W.B.; Lucknow, U.P.; Narela, Delhi; Thamarwa, Hardoi, U.P.; Pakistan—Lahore; Cosmopolitan. (148)

(N)595. **A. malayanum** (Alessandrini, 1906) Lane, 1916.

Syn. *Uncinaria malayana* Alessandrini, 1905; *Ankylostoma malayanum* Railliet and Henry, 1909; *Agchylostoma malayanum* Looss, 1911; *A. malayanicum* Stephens, 1916; *A. (Ceylancylostoma) malayanum* Lane, 1916.

Host—*Helarctos malayanus* (= *Ursus malayanus*), *Melursus ursinus*, *Nycticebus tardigradus*, *Selenarctos thibetanus thibetanus* (= *Ursus torquatus*); Location—intestine; Locality—India—Angul, Orissa; Calcutta, Darjeeling, W.B.; Malaya. (21a)

596. **A. minimum** (Linstow, 1906) Lane, 1916.

Syn. *Ankylostomum minimum* Linstow, 1906; *Uncinaria minima* Railliet and Henry, 1909.

Host—*Felis rubiginosa*; Location—stomach; Locality—Sri Lanka—Kandy. (270)

597. **Agriostomum vryburgi** Railliet, 1902.

Host—*Bos indicus*; Location—duodenum; Locality—India—Assam; Darjeeling, W.B.; Nilgiri, Madras; Mysore; Java; Sumatra. (355)

- (N)598. **Galoncus perniciosus** (Linstow, 1885) Railliet, 1918.

Syn. *Strongylus tubaeformis* Linstow, 1879; *Ankylostomum perniciosum* Linstow, 1885; *Uncinaria perniciosa* Cohn, 1899; *Ancylostoma perniciosum* Ihle, 1919.

Host—*Panthera pardus*, *P. tigris*; Location—intestinal nodules; Locality—India—Calcutta Zoo, W.B.; Africa; Europe. (258)

Subfamily BUNOSTOMINAE Looss, 1911.

599. **Bunostomum bhawnagarensis** Ramanujachari and Alwar, 1951.

Host—*Antelope cervicapra*, *Dama dama* (= *Cervus dama*); Location—duodenum; Locality—India—Bhawnagar; Madras Zoo. (371)

- (T)600. **B. bovis** Maplestone, 1931.

Host—*Bos indicus*, *Ovis aries* (= Sheep); Location—abomasum; Locality—India—Calcutta, W.B.; Gauhati, Assam. (292)

- (T)601. **B. cobi** Maplestone, 1931.

Syn. *B. dentatum* Monnig, 1931.

Host—*Antelope kobus ellipsiprymnus* (= *Cobus ellipsiprymnus*), *Ovis* sp.; Locality—India—Calcutta, W.B.; N. Rhodesia; S. Africa. (292)

602. **B. foliatum** (Cobbold, 1882) Railliet, Henry and Bauche, 1914.

Syn. *Strongylus foliatus* Cobbold, 1882; *Uncinaria sangeri* Alessandrini, 1905.

Host—*Elephas maximus indicus*; Location—intestine and gastric tumor; Locality—India—W.B. (127)

603. **B. phlebotomum** (Railliet, 1900) Railliet, 1902.

Syn. *Strongylus radiatus* Schneider, 1866, not Rud., 1803; not Gult, 1831 *Dochmius radiatus* Leuckart, 1868; *Uncinaria radiata* Railliet, 1885; *Monodontus phlebotomus* Railliet, 1900; *Bunostomum radiatum* Linstow, 1906; *B. phlebotomum* Lane, 1917.

Host—*Bos indicus*, *Capra* sp., (=Goat), *Ovis* sp., (=sheep); Location—small intestine; Locality—India—Mukteswar, U.P.; Cosmopolitan. (354)

604. **B. trigonocephalum** (Rudolphi, 1808) Railliet, 1902.

Syn. *Strongylus trigonocephalus* Rudolphi, 1808 (part); *S. cernuus* Creplin, 1829; *Sclerastoma hypostomum* Dujardin, 1843; *Dochmius hypostomus* Diesing, 1851; *Monodontus wedhii* Molin, 1861; *Dochmius cernuus* Railliet, 1868; *Uncinaria cernua* Railliet, 1885; *Ankylostoma cernuum* Blanchard, 1888; *Monodontus cernuus* Rizzo, 1900; *Strongylus* (*Monodontus*) *cernuus* Railliet, 1900; *Uncinaria* (*Monodontus*) *trigonocephala* Railliet, 1900; *Ankylostoma cernuum* Linstow, 1906; *Bunostomum kashinathi* Lane, 1917.

Host—*Antelope*, *Bos* sp., (=ox), *Capra hircus* (=goat), *Ovis* sp. (=sheep) and other ruminants; Location—caecum, duodenum and intestine; Locality—India—Bharani, Haridwar, Mukteswar, Jackol, Tehri, U.P.; Darjeeling, W.B.; Cosmopolitan. (399)

605. **Arthrocephaloides longespiculum** (Maplestone, 1931) Yamaguti, 1961.
 Syn. (T) *Uncinaria longespiculum* Maplestone, 1931; *U. philippinensis* Chitwood, 1932; *U. longispicula* Sandground, 1933.
 Host—*Paguma larvata intrudens*, *Paradoxurus philippinensis*, *Viverricula indica malaccensis* (= *V. malaccensis*); Location—small intestine; Locality—India—Calcutta Zoo, W.B.; Philippines; Tonkin; U.S.A.—Washington Zoo. (292)
606. **Arthrocephalus herpestis** Khera, 1956.
 Host—*Herpestes smithii smithii*; Location—intestine; Locality—India—Lucknow, U.P. (226)
607. **Gaigeria pachyscelis** Railliet and Henry, 1910.
 Syn. *Gaigeria smiti* Noto Soediro, 1928.
 Host—*Bos* sp. (=ox), *Aepyceros malampus*, *Antelope*, *Capra* sp. (=goat), *Ovis* sp. (=sheep); Location—intestine and duodenum; Locality—India—Punjab; Africa; Transwal. (361)
608. **Bathmostomum sangeri** (Cobbold, 1879) Railliet and Henry, 1909.
 Syn. *Dochmius sangeri* Cobbold, 1879; *Uncinaria sangeri* Railliet, 1897; *U. ospapillatum* Piana, 1900 in *piana* and *stazzi*.
 Host—*Elephas maximus indicus*; Location—caecum; Locality—India. (126)
609. **Grammocephalus hybridatus** Vander Westhuysen, 1938.
 Host—*Elephas maximus indicus*; Locality—India. (532)
610. **G. varedatus** Lane, 1921.
 Syn. *Strongylus clathratus* Cobbold, 1882 (part); *Sclerostoma clathratum* Piana and Stazzi, 1900 not Baird 1968; *Grammocephalus clathratus* Railliet and Henry, 1910.
 Host—*Elephas maximus indicus*; Location—bile duct and intestine; Locality—Burma. (239)
611. **Necator americanus** (Stiles, 1902) Stiles, 1903.
 Syn. *Uncinaria americana* Stiles, 1902; *Ankylostomum americanum* Linstow, 1903; *Uncinaria (Necator) americana* Stiles, 1903; *Ankylostomum americanum* Loeb and Smith, 1904; *Necator africanus* Harris, 1910; *N. suillus* Ackert and Payne, 1922.
 Host—*Canis* sp. (rarely); *Gorilla* sp., Man, *Manis javanicus*, Pangolin, *Rhinoceros unicornis*, *Sus* sp., *Didermocerus sumatrensis* (= *Rhinoceros bicornis*) and primates; Locality—India—Calcutta, W.B.; Africa; America; Asia; Europe; ? Nepal—Janakpur; Tanganyika. (492)
612. **Tetragomphius procyonis** Baylis and Daubney, 1923.
 Host—*Procyon* sp. (=Raccoon); Locality—India—Calcutta Zoo, W.B.; Musoorie, U.P. (63)
613. **Uncinaria felides** Maplestone, 1939.
 Host—*Felis bengalensis*; Locality—India. (296)

614. **U. stenocephala** (Railliet, 1884) Railliet, 1885.

Syn. *Ascaris criniformis* Goeze, 1782; *Strongylus criniformis* Rudolphi, 1802; *S. trigonocephalus* Gurlt, 1831, not Rudolphi, 1808; *Dochmius trigonocephalus* Ercolani, 1859 (part); *D. stenocephalus* Railliet, 1884; *Ankylostoma stenocephalum* Blanchard, 1888; *Ankylostomum stenocephalum* Linstow, 1889; *Ankylostoma trigonocephalum* Looss, 1888, not Blanchard, 1888; *Uncinaria polaris* Looss, 1911; *Dochmoides stenocephala* Cameron, 1924.

Host—*Canis* sp. (= dogs, and wolves); *Meles meles*, *Sus* sp., *Vulpes* sp. (=foxes); Location—intestine; Locality—India—Punjab; Pakistan—Lahore; Cosmopolitan. (350)

615. **U. thapari** Biocca and Bronzini, 1953.

Host—*Aelurus fulgens*; Locality—India. (78)

Family CYATHOSTOMIDAE Yamaguti, 1961.

Subfamily CYATHOSTOMINAE Nicoll, 1927.

616. **Cyathostomum aegyptiacum** (Railliet, 1923), Yamaguti, 1961.

Syn. *Strongylus tetracanthus* Mehlis, 1831 (part); *Sclerostoma quadridentatum* Dujardin, 1845 (part); *S. tetracanthum* Diesing, 1851 (part); *S. hexacanthum* Wedl, 1856 (part); *Cylicostomum tetracanthum* Looss, 1902; *C. tetracanthum* Geddoelst, 1903; *C. tetracanthum* Ihle, 1922; *Trichonema* (*Cylicostomum*) *aegyptiacum* Railliet, 1923.

Host—Equines (=Horse, donkey and mule); *Equus asinus*, and rarely in *Equus caballus*; Location—colon; Locality—India—Punjab; Pakistan—Lahore; Burma; Africa; Argentina; Australia; Columbia; Cuba; Egypt; Europe; Formosa. (357)

617. **C. calicatum** Looss, 1900.

Syn. *Cyliconostomum calicatum* Looss, 1902; *Cylicostomum calicatum* Geddoelst, 1903; *Cyathostomum minutum* Yorke and Macfie, 1918; *Cylicostomum* (*Cylicostephanus*) *calicatum* Ihle, 1922. var. *minor* Kotlan, 1920.

Host—Equines—*Equus* sp. (=Horse); Location—large intestine; Locality—India; Pakistan—Sargodha; Cosmopolitan. (277)

618. **C. catinatum** Looss, 1900.

Syns. *Cyliconostomum catinatum* Looss, 1902; *Cylicostomum catinatum* Geddoelst, 1903; *Trichonema catinatum* var. *pseudocatinatum* (Yorke and Macfie, 1919) Ihle, 1922; *Trichonema catinatum* var. *litoraureum* Yorke and Macfie, 1920; *T. catinatum* var. *lopezneyrai* (Lizeano, 1948).

Host—Equines (=Horse, Donkey, Mule); Location—caecum; Locality—India—Mukteswar, U.P.; Africa; Europe; Indonesia; Huzon; Puerto Rico; Siberia; Turkey; U.S.A. (277)

619. **C. coronatum** Looss, 1900.

Syn. *Cyliconostomum coronatum* Looss, 1902; *Cylicostomum coronatum* Geddoelst, 1903; *Cylicostomum* (*Cylicostomum*) *coronatum* Ihle, 1922; *Trichonema* (*Cylicostomum*) *coronatum* (Looss, 1900), Baylis, 1936.

Host—Equines (=Horse, donkey, mule, zebra); Locality—India—Punjab; Africa; Europe; Hawaii, Philippines; Puerto Rico; Siberia; S. America. (277)

620. **C. goldi** (Boulenger, 1917) ?Yamaguti, 1961.

Syn. *Cylichnostomum goldi* Boulenger, 1917; *Cylicostomum goldi* Boulenger, 1921; *C. (Cylicocercus) goldi* Ihle, 1922; *Trichonema (Cylicocercus) goldi* (Boulenger, 1917) Baylis, 1936; *Cyathostomum tridentatum* (Yorke and Macfie 1920); *Schulzitriconema goldi* (Boulenger, 1917) Erschov, 1943.

Host—Equines, *Equus* sp., (=zebra;); Locality—India—Punjab; Africa; Alberta; Brazil; Europe; Hawaii; Jamaica; Japan; Indonesia; Korea; N. America; Panama; Philippines; Puerto Rico; Siberia; Turkey; U.S.A. (85)

621. **C. insigne** (Boulenger, 1917) ? Yamaguti, 1961.

Syn. *Cylichnostomum insigne* Boulenger, 1917; *Cylicostomum zebrae* Boulenger, 1920; (not *cylichnostomum zebrae* Turner, 1920); *Cylicostomum insigne* Boulenger, 1921; *C. (Cylicocyclus) insigne* (Boulenger, 1917) ? Baylis, 1936.

Host—*Equus* sp., *Equus caballus*; Location—colon and caecum; Locality—India—Punjab; Africa; Alberta; Europe; Hawaii; Indonesia; Philippines, Puerto Rico; Panama; America; Turkey. (85)

622. **C. labiatum** (Looss, 1901) ? Yamaguti, 1961.

Syn. *Cylichnostomum labiatum* Looss, 1901; *C. labiatum* Looss, 1902; *Cylicostomum labiatum* Gedoelst, 1903; *C. (Cylicostomum) labiatum* Ihle, 1922; *Trichonema (Cylicostomum) labiatum* (Looss, 1902) Baylis, 1936.

Host—*Equus* sp. (=Horse); Location—caecum; Locality—India—Mukteswar, U.P.; Punjab; Cosmopolitan. (278)

623. **C. longibursatum** (Yorke and Macfie, 1918) ? Yamaguti, 1961.

Syn. *Cylicostomum longibursatum* Yorke and Macfie, 1918; *C. calicatifforme* Kotlan, 1919; *C. nanum* Ihle, 1919; *C. (Cylicostephanus) longibursatum* Ihle, 1922; *Trichonema (Trichonema) longibursatum* (Yorke and Macfie, 1918) ? Baylis 1936.

Host—Equines; Location—caecum and colon; Locality—India—Mukteswar, Uttar Pradesh; Nagpur; Maharashtra; Punjab; Africa; Asia; Burma; Europe; Hawaii; Japan; Java; Jamaica; Korea; Malaya; N. & S. America; Pakistan—Sargodha, Philippines; Puerto Rico; Siberia. (541)

624. **C. nassatum** Looss, 1900.

Syn. *Cylichnostomum nassatum* Looss, 1902; *Cylicostomum nassatum* Gedoelst, 1903; *Trichonema nassatum* var. *parva* Yorke and Macfie, 1918; *Trichonema ashworthi* Le Roux, 1924; *T. bulbiferum* Chaves, 1930; *Trichonema (Cylicocyclus) nassatum* (Looss, 1900) ? Baylis, 1936.

Host—Equines; Localities—India—Mukteswar, U.P.; Punjab; Cosmopolitan. (277)

625. **C. pateratum** (Yorke and Macfie, 1919) ? Yamaguti, 1961.

Syn. *Cylicostomum pateratum* Yorke and Macfie, 1919; *Cylichnostomum cymatostomum* Kotlan, 1919; *Cylicostomum cymatostomum* Kotlan, 1919; *C. (Cylicocercus) pateratum* Ihle, 1922; *Trichonema (Cylicocercus) pateratum* (Yorke and Macfie, 1919) ? Baylis, 1936.

Host—Equines, *Equus* sp. (=Horse); Location—colon; Locality—India—Punjab; Pakistan—Sargodha; Africa; Europe; Hawaii; Indonesia; Panama; Puerto Rico; Philippines; Siberia; S. America; Turkey; U.S.A. (543)

626. **C. radiatum** Looss, 1900.

Host—Equines, *Equus* sp. (=Horse); Locality—India; Africa; Alberta; Europe; Indonesia; Panama; Puerto Rico; Siberia; N. & S. America; Turkey. (277)

627. **Amiroides pileata** (Railliet, Henry and Bauche, 1914) Yamaguti, 1961.

Syn. *Cylicostomum pileatum* Railliet, Henry and Bauche, 1914; (T) *Amira omra* Lane, 1914; *A. pileata* Lane, 1915; *Khalilia pileata* (Railliet, Henry and Bauche, 1914) Baylis, 1936.

Host—*Elephas maximus indicus* (=Indian elephant); Location—caecum; Locality—India—Murshidabad, W B.; Orissa; Malabar, Travancore, Kerala. (369)

(N)628. **Bourgelatia diducta** Railliet, Henry and Bauche, 1919.

Host—*Sus* sp. (=pig); Location—caecum and colon; Locality—India—Calcutta, W.B.; Annani; Europe; Japan; Indonesia. (370)

629. **Gyalocephalus capitatus** Looss, 1900.

Host—Equines (=donkey); Locality—India; Afghanistan—Kabul; Cosmopolitan. (277)

630. **Murshidia elephasi** Wu, 1934.

Host—*Elephas maximus indicus*; Locality—India—? (Indian elephant died at Nanking) China—Nanking. (534)

(N)631. **M. falcifera** (Cobbold, 1882) Lane, 1915.

Syns. *Strongylus falcifer* Cobbold, 1882; *Cylicostoma falcifer* Mitter, 1912; *C. falciferum* Railliet, Henry and Bauche, 1914; *Murshidia falcifer* Lane, 1914.

Host—*Elephas maximus indicus*; Location—caecum; Locality—India—Andaman, W.B.; Malabar, Kerala; Orissa; Burma; ? Sri Lanka; Sumatra. (127)

632. **M. indica** (Ware, 1924) Yorke and Maplestone, 1926.

Syn. *Pteridopharynx indica* Ware, 1924.

Host—*Elephas maximus indicus*; Location—caecum & stomach; Locality—India—Malabar, Kerala; Burma. (526)

(T)633. **M. murshida** Lane, 1914.

Host—*Elephas maximus indicus*; Location—caecum; Locality—India—Malabar, Kerala; Orissa; Burma; Sri Lanka; China. (234)

634. **Petrovinema poculatum** (Looss, 1900) Erschov, 1943.

Syn. *Cyathostomum poculatum* Looss, 1900; *Cylicnostomum poculatum* Looss, 1902; *Cylicostomum poculatum* Gedoelst, 1903; *C. (Cylicostephanus) poculatum* Ihle, 1922; *Trichonema (Trichonema) poculatum* (Looss, 1900) Baylis, 1936.

Host—*Equus caballus*; Location—caecum; Locality—India—Punjab; Pakistan—Sargodha. (277)

635. **Poteriostomum imperidentatum** Quil, 1919.

Syn. *Poteriostomum pluridentatum* Quil, 1919; *Hexodontostomum markusi* Ihle, 1920; *Cylichnostomum zebrae* Turner, 1920.

Host—Equines (=Donkey, Horse, Zebra); Location—colon; Locality—India—Mukteswar, U.P.; Punjab; Africa; Argentina; Burma; Europe; Hawaii; Indonesia; Philippines; Puerto Rico. (348.)

(N)636. **Quilonia renniei** (Railliet and Henry, 1913) Railliet, Henry and Bauche, 1915.

Syn. *Evansia renniei* Railliet and Henry, 1913; *Quilonia quilona* Lane, 1914; *Nematevansia renniei* Ihle, 1919.

Host—*Elephas maximus indicus*; Location—caecum and lungs; Locality—India—Angul, Orissa; Malabar, Travancore, Kerala; Burma; Indonesia. (367)

637. **Q. travancra** Lane, 1914.

Syn. *Evansia travancra* Lane, 1915; *Nematevansia travancra* Ihle, 1919.

Host—*Elephas maximus indicus*; Locality—India—Orissa; Travancore, Kerala; Burma. (234)

Subfamily OESOPHAGOSTOMINAE Railliet, 1916.

638. **Oesophagostomum apiostomum** (Willach, 1891) Railliet and Henry, 1905.

Syn. *Sclerostomum apiostomum* Willach, 1891; *Oesophagostomum brumpti* Railliet and Henry, 1905.

Host—*Hylobates hoolock*, *Macaca cynomolgus*, also in Man. Locality—India; Africa; Brazil; China; Germany; Indonesia; Korea; Philippines. (533)

639. **O. asperum** Railliet and Henry, 1913.

Syn. *O. (Hysteracrum) asperum* Railliet and Henry, 1913; *O. indicum* Maplestone, 1931; *O. (Hysteracrum) indicum* Travassos and Vogelsang, 1932.

Host—*Capra hircus*, *C. sibirica*, *Capra* sp., *Ovis aries*, *Axis axis*, *Cervus elaphus*; Location—caecum and colon; Locality—India—Mukteswar, U.P.; Calcutta, West Bengal; China; Indochina; Malaya; Pakistan—Murree, Kaghan Valley; Panama Canal Zone. (367)

(N)640. **O. blanchardi** Railliet and Henry, 1912.

Syn. *O. (Conoweberia) blanchardi* Travassos and Vogelsang, 1932.

Host—*Hylobates hoolock*, *Pongopygmeaus* sp.; Location—stomach; Locality—India—Calcutta Zoo, W.B.; Borneo; Indochina; Java; London Zoo. (366)

641. **O. brevicaudum** Schwartz and Alicata, 1930.

Syn. (T) *O. suis* Maplestone, 1930.

Host—*Sus scrofa* (=Domestic pig); Location—caecum and large intestine; Locality—India—Calcutta, W.B.; U.S.A. (430)

(N)642. **O. columbianum** (Curtice, 1890) Stossich, 1899.

Syn. *Oesophagostoma columbianum* Curtice, 1890; *Hypostomum columbiana* Stewart, 1898; *Oesophagostomum (Proteracrum) columbianum* Railliet and Henry, 1913.

Host—*Bos* sp. (=Cattle); *Capra* sp. (=Goat); *Ovis* sp. (=Sheep); Location—abomasum, intestine and large intestine; Locality—India—Assam; Bangalore, Mysore; Bareilly and Bikanpur, and Mukteswar, U. P.; Bombay, Maharashtra; Calcutta, W.B.; Punjab; Rajasthan; Pakistan—Lahore; Cosmopolitan. (133)

(T)643. **O. curvatum** Maplestone, 1931.

Syn. *O. (Bosicola) curvatum* Travassos and Vogelsarg, 1932; *Bosicola curvatum* (Maplestone, 1931) Baylis, 1936.

Host—*Axis axis* (=Cervus axis); Location—intestine; Locality—India—Calcutta, W.B. (292)

(N)644. **O. dentatum** (Rudolphi, 1803) Molin, 1861.

Syn. *Strongylus dentatus* Rudolphi, 1803; *S. (Sclerostoma) dentatus* Rudolphi, 1809; *Sclerostoma dentatum* Blainville, 1828; *Oesophagostomum subulatum* Molin, 1861; *Strongylus follicularis* Ostertag, 1898; *O. dentatum* var. *quadrispiculatum* Macrone, 1901; *O. longicaudatum* Goodey, 1925.

Host—*Sus scrofa*, *Sus* sp. (=domestic pig); Location—large intestine; Locality—India—Calcutta, W.B.; Hyderabad, A.P.; New Guinea, Cosmopolitan. (398)

*645. **O. khoranai** nom. nov.

Syn. *Oesophagostomoides traguli* Maplestone, 1932 not *Oesophagostomum traguli* (Chandler, 1931) Yamaguti, 1961; *Oesophagostomum tragulis* (Maplestone, 1932) Baylis, 1936.

Host—*Bos indicus*, *Ovis aries*, *Tragulus javanicus*; Location—small intestine; Locality—India—Calcutta, W.B.; Pakistan—Peshawar and Sialkot. (293)

646. **O. maplestonei** (Schwartz, 1931) Schwartz, 1932.

Syn. *O. conicum* Maplestone, 1930, not Molin, 1861; *O. maplestoni* Schwartz, 1931; *O. conoides* Maplestone, 1931.

Host—*Sus* sp. (=pig); Location—caecum and large intestine; Locality—India—Calcutta, W.B. (429)

647. **O. ovatum** Linstow, 1906.

Syn. *Strongylus ovatus* Linstow, 1906; *Oesophagostomum blanchardi* Maplestone, 1931, not Railliet and Henry, 1912; *O. (conoweberia) raillieti* Travasso and Vogelsang, 1932.

Host—*Hylobates agiles*, *H. hoolock*, *H. syndactylus*; Location—stomach; Locality—India—Calcutta, W.B.; Africa; Borneo; Indochina; Sumatra. (273)

* Yamaguti (1961) transferred *B. traguli* Chandler, 1931 to *Oesophagostomum*, as Chandler's species was described earlier, *O. traguli* Maplestone, 1932 becomes preoccupied and requires a new name, as also suggested by Yamaguti (1961), hence we propose this name in honour of Noble laureate, Dr. Hargobind Khorana.

(N)648. **O. radiatum** (Rudolphi, 1803) Railliet, 1898.

Syn. *Strongylus radiatus* Rudolphi, 1803; *Bosicola radiatus* Rudolphi, 1803; *Strongylus inflatus* Schneider, 1866; not Molin, 1861; *S. dilatatus* Railliet, 1884; *Oesophagostomum inflatum* Railliet, 1885; *Ankylostoma radiatum* Blanchard, 1888; *Oesophagostomum dilatatum* Railliet, 1896; *O. radiatum* Railliet, 1898; *O. vesiculosum* Ratz, 1898; *O. bovis* Schnyder, 1906; *O. biramosum* Cuille, Marotel and Panisset, 1911; *O. (Proteracrum) radiatum* Railliet and Henry, 1913; *Bosicola tricoloris* Sandground, 1929; *Oesophagostomum (Bosicola) radiatum* Travassos and Vogelsang, 1932.

Host—*Bos* sp. (=cattles), *Bos frontalis*, *Bos taurus*; *Bubalus bubalis*, Hybrid bison; Location—intestine; Locality—India—Calcutta Zoo, and Darjeeling, W.B.; Punjab; Pakistan—Lahore. (398)

649. **O. traguli** (Chandler, 1931) Yamaguti, 1961.

Syn. *Bourgelatioides traguli* Chandler, 1931; *Bosicola traguli* (Chandler, 1931) Baylis, 1936.

Host—*Tragulus javanicus*; Location—small intestine; Locality—India—Calcutta, W.B. (112)

650. **O. tridentatum** Maplestone, 1932.

Host—*Presbytis obscurus* (= *Semnopithecus obscurus*), *Nasalis larvatus*; Location—stomach; Locality—India—Calcutta Zoo, W.B.; Borneo. (293)

(T)651. **O. tetradentatum** Soota and Chaturvedi, 1972.

Host—*Presbytis eutellus achates*; Location—intestine; Locality—India—Satpalli nr. Molem, Goa. (483)

(N)652. **O. venulosum** (Rudolphi, 1809).

Syn. *Strongylus venulosus* Rudolphi, 1809; *S. ammonis* Rudolphi, 1819; *Oesophagostomum acutum* Molin, 1861; *Oesophagostoma inflatum* var. *ovis* Carita, 1887; *Oesophagostomum (Hysteracrum) venulosum* Railliet and Henry, 1913; *O. vigintimembrum* Canavan, 1931.

Host—*Bos indicus*, *Capra* sp. (=Goat); *Capra ibex siberica* (=Ibex), *Camelus dromedarius*, *Camelus* sp., Cervidae (=deers), *Ovis aries*; *Tragulus javanicus* and other ruminants; Location—intestine, large intestine and stomach; Locality—India—Bangalore, Mysore; Mukteswar, U.P.; Cosmopolitan. (400)

653. **Chabertia himalayana** Fotedar and Bambroo, 1967.

Host—*Ovis aries* (=sheep); Location—intestine; Locality—India—Kashmir. (158)

(N)654. **C. ovina** (Gmelin, 1790) Railliet and Henry, 1909.

Syn. *Strongylus ovinus* Gmelin, 1790; *S. contortus* Rudolphi, 1802 (part); *S. hypostomus* Rudolphi, 1819; *Sclerostoma hypostomum* Dujardin, 1845 (part); *Dochmius hypostomus* Diesing, 1851 (part); *Sclerostomum hypostomum* Leuckart, 1867; *S. ovinum* Stossich, 1899; *Chabertia rishati* Akhtar, 1937.

Host—*Bos indicus*, *Bos* sp., *Camelus* sp., *Capra* sp., Cervidae (=deers), *Ovis* sp., and other ruminants; Location—large intestine; Locality—India—Almora, Mathura, Mukteswar and Nainital, U.P. (171)

Family CLOACINIDAE Travassos, 1919.

Subfamily CLOACININAE Stossich, 1899.

655. **Kiluluma stylosa** (Linstow, 1907) Skrjabin, 1916.

Syn. *Deltrocephalus stylosus* Linstow, 1907.

Host—*Rhinoceros unicornis* (= *R. indicus*), *R. africanus*; Location—stomach; Locality—India; Nepal—Janakpur; Africa. (274)

Family TRICHOSTRONGYLIDAE Leiper, 1912.

Subfamily TRICHOSTRONGYLINAE Leiper, 1908.

- (N)656. **Trichostrongylus colubriformis** (Giles, 1892) Ransom, 1911.

Syn. *Strongylus colubriformis* Giles, 1892; *S. instabilis* Railliet, 1893; *Trichostrongylus delicatus* Hall, 1916; *Strongylus subtilis* Looss, 1905; *Trichostrongylus subtilis* Looss, 1905.

Host—*Antilocapra* sp., Antelope, *Bos* sp., *Camelus* sp., *Capra* sp., *C. hircus*, Chimpanzee, *Gazella* sp., *Ovis* sp., *Oryctolagus*, *Lepus* sp., *Macaca* sp., Man, *Nemorhaedus* sp., *Sciurus* sp., Sciuridae; Location—intestine; Locality—India—Assam; Mysore; Punjab; Pashulok, U.P.; Australia; Brazil; England; Europe. (170)

657. **T. extenuatus** (Railliet, 1898) Ransom, 1907.

Syn. *Strongylus gracilis* Mac Fadyean, not Leuckart, 1842; *S. extenuatus* Railliet, 1898.

Host—*Capra* sp., Cattle, *Citellus*, *Ovis aries*, Zebu; Locality—India; Africa; Australia; Europe; France; N. & S. America. (537)

658. **T. meyeri** Travassos, 1937.

Syn. *Strongylus castatus* Meyer, 1896, not Rudolphi 1819.

Host—*Manis pentadactyla*; Locality—Sri Lanka. (513a)

659. **T. pigmentatus** (Linstow, 1904) Hall, 1916.

Syn. *Strongylus pigmentatus* Linstow, 1904.

Host—*Lepus nigricollis*; Location—stomach; Locality—Sri Lanka—Ramna, Southern Province. (267)

660. **T. probolurus** (Railliet, 1896) Looss, 1905.

Syn. *Strongylus probolurus* Railliet, 1896.

Host—*Camelus* sp., *Capra* sp., *Gazella* sp., *Lepus nigricollis*, *Ovis aries*, accidentally in man, other ruminants; Location—duodenum; Locality—India—Punjab; Sri Lanka; Africa; Australia; China; France; Mongolia; Russia. (352)

- (N)661. **T. vitrinus** Looss, 1905.

Host—*Camelus* sp., *Capra hircus*, *Capra* sp., *Capreolus*, Man *Nemorhaedus goral*, *Oryctolagus*, *Ovis* sp., *Rupicapra rupicapra*; Locality—India; Kabul; America; Australia; Egypt; Europe; East Siberia; Germany; Morocco. (279)

662. **Ashwarthius martinagliae** Ortlepp, 1925.

Host—*Boselaphus tragocamelus*; Locality—India. (333a)

- (N)663. **Camelostrongylus mentulatus** (Railliet and Henry, 1909) Orloff, 1933.
 Syn. *Ostertagia mentulata* Railliet and Henry, 1909; *Strongylus capillaris* Pricolo, 1913.
 Host—*Camelus dromedarius*, *Capra hircus*, *Dama dama*, *Ovis aries*, *Saiga tartarica*; Locality—India; Kabul; America; Asia; Australia; Egypt; Europ  ; Turkistan. (358)
664. **Cooperia curticii** (Giles, 1892) Ransom, 1907.
 Syn. *Strongylus curticii* Giles, 1892; *Strongylus curticei* Railliet, 1893.
 Host—*Bos taurus*, *Capra hircus*, *Cervus elaphus*, *Dama dama*, *Ovis aries*; Location—intestine and abomasum; Locality—India—Punjab; Cosmopolitan. (170)
665. **C. oncophora** (Railliet, 1898) Ransom, 1907.
 Syn. *Strongylus oncophora* Railliet, 1898; *Cooperia herkeri* Stoedter, 1901; *C. bisonis* Cram, 1925; *C. bisonis* Koffman, 1942.
 Host—*Bison bison*, *Bos taurus*, *Camelus dromedarius*, *Dama dama*, *Ovis aries*, *O. canadensis*; Locality—India; Cosmopolitan. (537)
666. **C. pectinata** Ransom, 1907.
 Host—*Bos taurus*, *Damaliscus*, *Egoceros niger*, *Ovis aries*; *Strepsiceros*; Locality—India; Cosmopolitan. (374)
667. **C. punctata** Linstow, 1907.
 Syn. *Cooperia laterouniformis* Chow, 1937.
 Host—*Antelope*, *Bos taurus*, *Bubalus bubalis*, *Damaliscus albiformis*, *Ovis aries*, *Strepsiceros*; Locality—India; Hongkong; Cosmopolitan. (274)
668. **Hyoststrongylus rubidus** (Hassall and Stiles, 1892) Hall, 1921.
 Syn. *Strongylus attenuatus* Molin, 1860, not Leidy, 1856; *Strongylus rubidus* Hassall and Stiles, 1892; *Strongylus molini* Railliet, 1898.
 Host—*Sus scrofa*, *Tayssus albirostris*, *Cavia procellus*; Locality—India; Cosmopolitan. (190)
- (N)669. **Marshallagia marshalli** (Ransom, 1907) Orloff, 1933.
 Syn. *Ostertagia marshalli* Ransom, 1907; *O. brigantiaca* Railliet and Henry, 1909; *O. tricuspis* Marotel, 1910; *O. orientalis* Bhalerao, 1932; *O. (Marshallagia) marshalli* Orloff, 1933.
 Host—*Antilocapra americana*; *Camelus bactrianus*, *Capra hircus*, *C. ibex sibirica* (= *C. sibirica*); *Odocoillus hemionus*; *Oreamnos americanus*, *Ovis canadensis*, *Ovis aries*, *Rupicapra rupicapra*; Location—small intestine and abomasum; Locality—India—Mukteswar, U.P.; Kabul; Cosmopolitan. (374)
- (N)670. **Ostertagia circumcincta** (Stadelmann, 1894) Ransom, 1907.
 Syn. *Strongylus nicarius* Stadelmann, 1893; *S. circumcinctus* Stadelmann, 1894; *S. cervicornis* McFadyean, 1897; *Ostertagia (O.) circumcincta* Orloff, 1933.
 Host—*Camelus* sp., *Antilocapra*, *Bos taurus*, *Capra ibex sibirica* (= *C. sibirica*), *Capra hircus*, *Capra* sp., *Cephalophus*, *Nemorhoedus*, *Ovis*

sp., *Pelea*, *Capraeolus*, *Rangifer*, *Rupicapra* sp., and other ruminants; Location—abomasum and small intestine; Locality—India—Mukteswar, U.P., Cosmopolitan. (488)

(N)671. **O. occidentalis** Ransom, 1907.

Syn. *Ostertagia trifida* Cuille, Marotel and Panisset, 1911; *O. skrjabini* Kamensky, 1929; *O. (Grosspiculagia) occidentalis* Orloff, 1933.

Host—*Camelus* sp., *Capra ibex sibirica*, *Capra* sp., *Odocoillus hemionus*, *Ovis aries*, *Ovibos*, *Rupicapra*; Location—abomasum and small intestine; Locality—India—Mukteswar, U.P.; Africa; Australia; Europe; N. America. (374)

672. **O. ostertagi** (Stiles, 1892) Ransom, 1907.

Syn. *Strongylus convolutus* Ostertag, 1890, not Kuhn, 1829; *S. ostertag* Stiles, 1892; *S. cervicornis* McFadyean, 1897 (part); *S. harkeri* Stodter, 1901 (part).

Host—*Bison*, *Bos indicus*, *B. taurus*, *Bos* sp., *Camelus dromedarius*, *Capra hircus*, *Ovis aries*, *Pseudois neayaur* (= *Ovis nahura*), *Rupicapra rupicapra*; Location—abomasum, nodules and duodenum; Locality—India—Mukteswar, U.P.; Cosmopolitan. (491)

*673. **O. (Grosspiculagia) malviyai** nom. nov.

Syn. *O. (Gross.) skrjabini* Singh and Pande, 1963, not Kamensky, 1929.

Host—*Antelope cervicapra*; Location—abomasum; Locality—India. (448)

674. **O. trifurcata** Ransom, 1907.

Syn. *O. pinnata* Baylis and Daubney, 1933.

Host—*Bos taurus*, *Capra hircus*, *Camelus*, *Damaliscus*, *Nemorhaedus*, *Pseudois neayaur*, *Equus hemionus* (= *Pseudois hemionus*); Locality—India; Afghanistan—Kabul; Cosmopolitan. (374)

Subfamily HAEMONCINAE Yamaguti, 1961.

675. **Haemoncus bispinosus** (Molin, 1860) Railliet and Henry, 1909.

Syn. *Strongylus bispinosus*, Molin, 1866.

Host—*Axis axis* (= *Cervus axis*), *Cervus nambi*; Location—abomasum; Locality—India; Brazil. (318)

(N)676. **H. contortus** (Rudolphi, 1803) Cobb, 1898.

Syn. *Strongylus contortus* Rudolphi, 1803; *S. ammonis* Rudolphi, 1819; *S. flicollis* Molin, 1861; *Filaria denticulata* Simmonds, 1881; *Abomesi ovis* Simmonds, 1881; *Strongylus placei* Place, 1893; *S. haemonchus* Stewart, 1912; *Haemonchus cervinus* Baylis and Daubney, 1922; *H. pseudocontortus* Lebedew, 1929; *H. fuhrmanni* Kamensky, 1929; *H. atectus* Lebedew, 1929; ? *H. bovis* Roetti, 1940.

* *Ostertagia skrjabini* Kamensky, 1929, is already known species of the genus. So *O. skrjabini* Singh and Pande, 1963, requires a new name—proposed here as *malviyai* in honour of Pandi M.M. Malviya the great National Leader and Founder of the Banaras Hindu University Varanasi,

Host—*Antilope*, *Alce*, *Addax*, *Ammotragus*, *Antidorcus*, *Bison*, *Bos* ds, (=ox); *Axis axis*, *Bubalus* sp., *Capra hircus*, *C. ibex sibirica*, *C. falconeri*, *Capra* sp., *Capreolus*, *Citellus*, *Cobus*, *Damaliscus*, *Dorcelaphus*, *Gazella*, *Hippotragus*, *Man*, *Mazama*, *Nemorhaedus*, *Odocoillus*, *Ovibos*, *Ovis* sp., *Rangifer*, *Rupicapra*, *Pediotragus*, *Sus* sp. [also in *Wallago attu*—accidental]; Location—abomasum and intestine; Locality—India—Bareilly, Bharani and Mukteswar, U.P.; Calcutta, W.B.; Punjab; Bihar. (398)

(N)677. **H. longistipes** Railliet and Henry, 1909.

Host—*Camelus dromedarius*; Location—abomasum; Locality—India; Pakistan—Lahore; Africa. (359)

678. **H. similis** Travassos, 1914.

Syn. *H. contortus* Schnyder, 1906.

Host—*Bos indicus*, *B. taurus*, *Ovis aries*; Location—abomasum; Locality—India—Bombay, Maharashtra; Mukteswar, U.P.; Brazil; Europe; Korea. (510)

Subfamily MECISTOCIRRINAE Skrjabin and Orloff, 1934.

(N)679. **Mecistocirrus digitatus** (Linstow, 1906) Railliet and Henry, 1912.

Syn. *Strongylus digitatus* Linstow, 1906; *S. fordii* Daniels, 1908; *S. gibsons* Stephens, 1909; *Nematodirus digitatus* Railliet and Henry, 1909; *N. fordii* Leiper, 1911; *N. gibsoni* Railliet and Henry, 1911; *N. (M.) digitatus* Railliet and Henry, 1912; *N. (M.) fordii* Railliet and Henry, 1912; *Mecistocirrus fordii* Railliet and Henry, 1912; *M. fordii* Lane, 1916; *M. tagumai* Morishita, 1922.

Host—Bovines, *Bos* sp. (=calf), *Bos indicus* (=Zebu), *Man*, *Ovis* sp., *Sus* sp.; Location—intestine and stomach; Locality—India—Assam; Bombay, Maharashtra; Calcutta, W.B.; Mukteswar, U.P.; Pakistan—Sind; Sri Lanka—Colombo; Cosmopolitan. (270)

Subfamily NEMATODIRINAE Skrjabin and Orloff, 1934.

680. **Nematodirus filicollis** (Rudolphi, 1802) Ransom, 1907.

Syn. *Ascaris filicollis* Rudolphi, 1802; *Tricocephalus auricularis* Rudolphi, 1802; *Fusaria filicollis* Zeder, 1803; *Strongylus filicollis* Rudolphi, 1803; *Oesophagostomum filicollis* Stossich, 1899; *Trichostrongylus filicollis* Sluiter and Swellengrebel, 1912; *Strongylus (Nematodirus) filicollis* Huttyra and Maarek, 1913; *Nematodirus (N.) filicollis* Neveu-Lamaire, 1914; *N. furcatus* May, 1920.

Host—*Bos* sp., *Capra* sp. (=goat), Cervidae, *Ovis* sp., and other ruminants; Location—duodenum; Locality—India—Punjab; Cosmopolitan. (397)

681. **N. mauritanicus** Maupas and Seurat, 1912.

Syn. *N. spathiger* Gaiger, 1910.

Host—*Camelus dromedarius*; Location—intestine and stomach; Locality—India—Punjab; Pakistan—Lahore; Asia; Europe; N. Africa; N. America. (300)

682. **N. spathiger** (Railliet, 1896) Railliet and Henry, 1909.

Syns *Strongylus spathiger* Railliet, 1896; *S. filicollis* Rudolphi, of Curtice, 1890 and Sprehn, 1932.

Host—*Antidorcus marsupialis*, *Antilocapra americana*, *Bison europaeus*, *Bos taurus*, *Camelus bactrianus*, *C. dromedarius*, *Capra hircus*, *Capreolus capreolus*, *Dama dama*, *Cervus canadensis*, *Ctenodactylus goundi*, *Gazelli subgutturosa*, *Nemorhaedus goral*, *Odocoilleus hemionus*, *Oryctolagus cuniculus*, *Ovis aries*, *Rupicapra rupicapra*; Locality—India; Cosmopolitan. (352)

Subfamily NOCHTIINAE Skrjabin and Schikhobalova, 1952.

683. *Nochtia nochtia* Travassos and Vogelsang, 1929.

Host—*Macaca mulatta* (= *Macaca rhesus*), *M. mordax* (experimental); Locality—India. (516)

Subfamily VIANNAINAE Neveu-Lemaire, 1934.

684. **Longistriata brevispicularis** Singh, 1962.

Host—*Rattus norvegicus*; Location—intestine; Locality—India—Mukteswar, U.P. (444)

685. **L. longispicularis** Singh, 1962.

Host—*Petaurista p. albiventer* (= Flying squirrel); Location—stomach; Locality—India—Mukteswar, U.P. (445)

686. **Nippostrongylus brasiliensis** (Travassos, 1914)? Lane, 1923.

Syn. *Cooperia brasiliensis* Travassos, 1914; *Heligmosomum muris* Yokogawa, 1920.

Host—*Mus musculus*, *Peromyscus maniculatus*, *Rattus norvegicus*; Abnormal hosts—*Mesocricetus aurotus* (= cotton golden hamster), *Cavia procellus* (= Guinea pig), *Cricetus auratus*, *Sigmodon hispidus*; Location—stomach; Locality—India; Cosmopolitan. (510)

Subfamily TRICHOCHENIINAE Singh, 1958.

687. **Trichocheenia mucronata** Singh, 1958.

Host—*Manis pentadactyla* (in captivity); Location—intestine; Locality—India—Hyderabad, A.P. (454)

688. **Protostrongylus indicus** Sarwar, 1944.

Host—*Capra ibex sibirica*; *Capra* sp. (= goat); Location—lungs; Locality—India—Izatnagar, U.P. (419)

689. **P. rufescens** (Leuckart, 1865) Kamensky, 1905.

Syn. *Strongylus rufescens* Leuckart, 1865; *Synthetocaulus rufescens* Railliet and Henry, 1907; *Sclerostoma rufescens* Braun and Luhe, 1910; *Metastrongylus rufescens* Sluiter and Swellengrebel, 1912; *Strongylus* (*Synthelocaulus*) *rufescens* Huttyara and Marek, 1913; *Dictyocaulus rufescens* Pratt, 1916,

Host—*Capra* sp. (=goat), *Capreolus* (=Roe deer), *Dama* sp. (=Fallow deer), *Ovis* sp. (=sheep), Rabbit; Location—bronchi and lungs; Locality—India—Punjab; Africa; America; Cyprus; Europe; Germany; Turkey. (249)

690. **Varestrongylus capricola** Sarwar, 1944.

Host—*Capra ibex sibirica*, *Capra* sp. (=goat), *Ovis* sp. (=sheep); Location—lungs; Locality—India—Izatnagar, U.P.; Pakistan. (419)

691. **V. pneumonicus** Bhalerao, 1932.

Host—*Capra ibex sibirica*, *Capra* sp., *Ovis ammon hodgsoni* (= *Ovis hodgsoni*), *Pseudois n. neayaur* (= *Ovis nahura*), *Ovis* sp.; Locality—India—Mukteswar, U.P. (70)

692. **Pneumoststrongylus ovis** Sarwar, 1953.

Host—*Capra hircus*, *Ovis aries*; Locality—Pakistan. (423a)

Subfamily DICTYOCAULINAE Skrjabin, 1933.

693. **Dictyocaulus arnfieldi** (Cobbold, 1884) Railliet and Henry, 1907.

Syn. *Strongylus arnfieldi* Cobbold, 1884; *Metastrongylus arnfieldi* Sluiter and Swellengrebel, 1912; *Strongylus dictyocaulus arnfieldi* Hutyara and Marek, 1913.

Host—*Equus* sp., Equines, *Tapirus indicus* (=Malay Tapir); Locality—India—Mukteswar, U.P.; Punjab; Pakistan; Africa; America; Australia; Europe; France; Puerto Rico. (128)

694. **D. filaria** (Rudolphi, 1809) Railliet and Henry, 1907.

Syn. *Strongylus filaria* Rudolphi, 1809; *S. dorcadis* Rudolphi, 1819; *Sclerostoma filaria* Braun and Luhe, 1910; *Dictyocaulus unequalis* Bhalerao, 1932.

Host—*Camelus dromedarius* (=Camel), *Capra* sp. (=goat), Cervidae (=deer), *Ovis* sp., *Rupicapra rupicapra* and other ruminants; Location—bronchi and lungs; Locality—India—Assam; Mukteswar, U.P.; Kashmir; Punjab; Burma; Cosmopolitan. (400)

695. **D. viviparus** (Bloch, 1782) Railliet and Henry, 1907.

Syn. *Gordius viviparus* Bloch, 1782; *Ascaris vituli* Gmelin, 1790; *Fusaria vituli* Zeder, 1803; *Strongylus vitulorum* Rudolphi, 1809; *S. micrurus* Mehlis, 1831; *S. pulmonaris* Ercolani, 1859; *Metastrongylus micrurus* Sluiter and Swellengrebel, 1912; *Dictyocaulus micrurus* Railliet, 1915;.

Host—*Bos indicus* (=Cattle), *Bos* sp., *Camelus* sp., Cervidae (=deer) and rarely in Equines; Location—bronchi; Locality—India—Hyderabad, A.P.; Mukteswar, U.P.; Punjab; Cosmopolitan. (83)

Subfamily METASTRONGYLINAE Leiper, 1908 partim.

696. **Metastrongylus elongatus** (Dujardin, 1845) Railliet and Henry, 1911.

Syn. *Strongylus elongatus* Dujardin, 1845; *S. longivaginus* Diesing, 1861; *Metastrongylus longivaginus* Molin, 1861; *M. paradoxus* Molin, 1861; *Filaria trachealis* Cobbold, 1864; *Eustrongylus longivaginus* Dunglison, 1874; *Strongylus apri* Blanchard, 1895; *Cloacina octodactyla* Linstow, 1906; *Sclerostoma apri* Braun and Luhe, 1910.

Host—*Canis* sp. (=dog), *Sus* sp. (=pig), *Tayassu* sp. (=Peccary), and other ruminants (cattle, sheep, goat, deer) [occasionally in Man]; Location—Bronchi and Trachea; Locality—India—Calcutta, W.B.; Tamil Nadu; Cosmopolitan. (149)

Subfamily TROGLOSTRONGYLINAE Yamaguti, 1961.

697. **Troglostrongylus troglostrongylus** Vevers, 1922.

Host—*Felis bengalensis*; Location—Frontal sinus; Locality—India; London Zoo. (520)

Family PSEUDALIIDAE Railliet, 1916.

Subfamily FILAROIDINAE Skrjabin, 1932

- (T)698. **Herpestostrongylus herpestis** Khera, 1956.

Host—*Herpestes edwardsi*; Location—lungs and gall bladder; Locality—India—Lucknow, U.P. (226)

- (T)699. **H. palustris** Soota and Chaturvedi, 1970.

Host—*H. palustris*; Location—lungs; Locality—India—Bhajna 24-Parganas, W.B. (476)

700. **Muellerius minutissimus** (Megnin, 1878) Dougherty and Gobel, 1946.

Syn. *Strongylus minutissimus* Megnin, 1878; *Muellerius capillaris* (Muller 1889); *Pseudalius ovis* Brown, 1897; *Strongylus pulmonalis* (Diesing, 1851) of Curtice and of Gilruth, 1903.

Host—*Alces* sp., *Capra* sp., *Capreolus* sp., *Rupicapra* sp.; Locality—India; Cosmopolitan. (302)

- *701. **Papillosleurus erinaceus** Khera, 1956.

Host—*Erinaceus* sp.; Location—lungs; Locality—India—Lucknow, U.P.; Rajasthan. (226)

Family STEPHANURIDAE Travassos and Vogelsang, 1933.

- (N)702. **Stephanurus dentatus** Diesing, 1839.

Syn. *Sclerostoma pinguicola* Verill, 1870; *S. dentatum* Leidy, 1856; not Rudolphi, 1809; *Strongylus dentatus* Dean, 1874; not Rudolphi, 1803;

* Yeh (1958) synonymized *Papillosleurus* [Sic. *Papillosclerus*] with *Metathelazia* Skinner, 1931, but we do not agree with this synonymy.

Stephanurus matterei Cobbold, 1879; *Strongylus* (*Sclerostoma*) *pinguicola* Magahles, 1894; *Sclerostomum renium* Drabble, 1922; *Stephanurus morai* Almeida, 1928.

Host—*Bos* sp. (=ox), Equines (=donkey), *Sus* sp. (=pig), and Guinea pig—Experimental; Location—lungs, ureter, peritoneal fat, liver, viscera; Locality—India—Calcutta, W.B.; Annam; Java; Sumatra; Cosmopolitan. (139)

Family SYNGAMIDAE Leiper, 1912.

703. **Mammomonogamus indicus** (Monnig, 1932) Ryzikov, 1948.

Syn. *Syngamus indicus* Monning, 1932.

Host—*Elephas maximus indicus*; Location—larynx, pharynx; Locality—India—Andaman. Also in Africa (Host imported from India). (320)

704. **M. laryngeus** (Railliet, 1899) Ryzhikov, 1948.

Syn. *Syngamus laryngeus* Railliet, 1899; *S. masicola* Linstow, 1899; *S. kingi* Leiper, 1913; *S. minor* Smit, 1922; *S. major* Smit, 1922; *S. laryngeus* Smit, 1922.

Host—*Bos indicus*, *B. taurus*, *Bos* sp., *Bubalus bubalis*, *Capra hircus* (=goat), *Cervus rufus* (=deer), *Ovis aries*, *Panthera onca*, ? Man; Location—larynx; Locality—India—Bareilly and Kumaun, Garhwal, Mukte war, U.P.; Annam; Brazil; Cameroun; Columbia; Malaya; Philippines; S. America; Puerto Rico; Venezuela. (353)

Order DIOCTOPHYMIDEA Yamaguti, 1961.

Family DIOCTOPHYMIDAE Railliet, 1915.

Subfamily DIOCTOPHYMINAE Skrjabin and Schikhobalova, 1954.

705. **Diectophyma renale** (Goeze, 1782) Stiles, 1901.

Syn. *Ascaris renalis* Goeze, 1782; *A. canis* Schrank, 1788; *A. martis* Schrank, 1788; *A. visceralis* Gmelin, 1790; *Strongylus gigas* Rudolphi, 1802; *Fusaria visceralis* Zeder, 1803; *F. renalis* Zeder, 1803; *Lumbricus renum canis* Rudolphi, 1809; *Eustrongylus gigas* Diesing, 1851; *Lumbricus canis renalis* Diesing, 1851; *L. martis renalis* Diesing, 1851; *L. sanguineus* Diesing, 1851; *L. gulonis siberici* Diesing, 1851; *L. renalis* Kuchenmeister, 1855; *Strongylus renalis* Moquin-Tandon, 1860; *Eustrongylus gigante* Perroncito, 1882; *E. visceralis* Railliet, 1885; ? *Dracunculus longissimus* (Blanchard, 1888); *Dictophyme gigas* Stiles and Hassall, 1896; *Eustrongylus renalis* Guiart, 1910; *Diectophyme renalis* Castellani and Chalmers, 1910.

Host—*Canis* spp. (=dog & wolf), *Felis* sp., *Equus* sp., *Bos* sp., carnivores, *Idus idus*, man, mink, Orang Utan, Otter, Seal, *Vulpes* sp., *Sus* sp.; Location—pelvis, kidney, liver, abdominal or thoracic cavity; Locality—India—Bihar; Punjab; China; Iran; Japan; N. & S. America. (172)

Order OXYURIDEA Weinland, 1858.

Family OXYURIDAE Cobbold, 1864.

Subfamily OXYURINAE Hall, 1916.

- (N) 706. **Oxyuris equi** (Schränk, 1788) Blanchard, 1849.

Syn. *Trichocephalus equi* Schränk, 1788; *Trichuris equi* Bruguiere, 1791; *Mastigodes equi* Zeder, 1803; *Oxyuris curvula* Rudolphi, 1803; *O. mastigodes* Nitzsch in Giebel, 1857; *Lepturis curvula* Schlotthauber, 1860; ? *Oxyuris tenuicauda* Linstow, 1901; *O. mastigodes* Gough, 1908.

Host—*Camelus* sp., Equines (= donkey, mule, zebra); Location—caecum, colon and rectum; Locality—India—Assam; Bombay; Tamil Nadu; Mukteswar, U P.; Punjab; Burma; Cosmopolitan. (427)

707. **O. poculum** Linstow, 1904.

Host—*Equus caballus*; Locality—Sri Lanka—Iranativu; Colombo. (267)

708. **Citellina bashiri** Akhtar, 1956.

Host—*Marmota caudata*; Locality—Pakistan. (20)

709. **C. himalayensis** Inglis and Ogden, 1965 (emend.)

Host—*Callosciurus m. macclellandi*; Location—intestine; Locality—East Nepal. (197)

710. **Enterobius anthropopitheci** (Geddoelst, 1916).

Syn. *Oxyuris anthropopitheci* Geddoelst, 1916.

Host—*Anthropopithecus troglodytes*, *Lemur brunneus*, *Pan satyrus*; Locality—India—Calcutta Zoo, W.B.; Africa; Belgian Congo. (166).

711. **E. pitheci** Cameron, 1929.

Host—*Pithecus aygula*; Locality—India—Assam. (88)

712. **E. vermicularis** (Linnaeus, 1758) Leach, 1853.

Syn. *Ascaris vermicularis* Linnaeus, 1758; *Fusaria vermicularis* Zeder, 1803; *Oxyuris vermicularis* Bremser, 1819; *O. vermicularis* (Stiles, 1905) Ward, 1907; *O. (Oxyuris) vermicularis* Stiles, 1907; *Fusarella vermicularis* Seurat, 1916.

Host—*Hylobates* sp., *Canis* sp., (= dog), Man, *Rattus norvegicus*, *R. rattus*; Location—appendix, caecum, colon and small intestine; Locality—India—Berhampore, W.B.; Afghanistan; Cosmopolitan. (253)

713. **E. zakiri** Siddiqui and Mirza, 1956.

Host—*Presbytis entellus schistaceus* (= *Semnopithecus entellus schistaceus*); Location—rectum; Locality—India. (440)

714. **Passalurus ambiguus** (Rudolphi, 1819) Dujardin, 1845.

Syn. *Oxyuris ambigua* Rudolphi, 1819.

Host—*Lepus* sp., *Marmota* sp., *Oryctolagus* sp., *Sylvilagus* sp.; Location—colon; Locality—India; Pakistan; Afghanistan; Argen-

tina; Australia; Brazil; Columbia; Cuba; Mexico; Newzealand; U.S.A. (401)

Subfamily ASPICULURINAE Skrjabin and Schikhobalova, 1950.

- (T)715. **Aspiculuris afganica** Akhtar, 1955.
Host—*Mus bactrianus*; Locality—Afghanistan, Kabul. (18)
716. **A. agrawali** Gupta and Sood, 1969.
Host—*Rattus rattus*; Location—intestine; Locality—India—Lucknow, U.P. (183b)
717. **A. lahoriga** Akhtar, 1955.
Host—*M. musculus*; Locality—Pakistan—Lahore. (18)
718. **A. pakistanica** Akhtar, 1955.
Host—*R. rattus rufescens*; Locality—Pakistan, Lahore. (18)
- (T)719. **Lablostomum naimi** Akhtar, 1941.
Host—*Ochotona* sp. (=pika); Locality—Afghanistan. (13)

Subfamily HETEROXYNEMATINAE Skrjabin and Schikhobalova, 1950.

- (T)720. **Cephaluris ochotonae** Akhtar, 1947.
Host—*Ochotona rufescens* (=Pika); Location—colon; Locality—Afghanistan—Kabul. (15)
- (N)721. **Dermatoxys ruficaudata** Mirza, 1936.
Host—*Lepus nigricollis ruficaudatus* (= *Lepus ruficaudatus*); Locality—India—Aligarh, U.P. (309)
722. **D. skrjabini** Katiyar and Pande, 1965.
Host—*Lepus nigricollis ruficaudatus*; Locality—India—Mathura, U.P. (216)
723. **Pikaeuris pikaeuris** Akhtar, 1953.
Host—*Ochotona rufescens* (=Pika); Locality—Afghanistan—Kabul. (16)

Subfamily LAUROIINAE Skrjabin and Schikhobalova, 1951.

- (T)724. **Probstmayria simiae** Maplestone, 1931.
Host—*Hylobates hoolock*; Location—small intestine; Locality—India—Calcutta, W.B. (292)

725. **P. vivipara** Probstmayr, 1865.
Host—Equines; Locality—India—Calcutta, W.B.; Cosmopolitan.
(347a)

Subfamily SYPHACIINAE Railliet, 1916.

726. **Symphacia funambuli** Johnson, 1967.
Host—*Funambulus pennanti*; Location—rectum; Locality—India—Jodhpur, Rajasthan. (204a)
727. **S. baylisi** Maplestone and Bhaduri, 1942.
Host—*Rattus norvegicus* (= *Mus decumanus*); Locality—India—Calcutta, W.B. (299)
728. **S. lahorea** Akhtar, 1955.
Host—*Funambulus pennanti argentescens*; Locality—Pakistan—Lahore. (19)
- (N)729. **S. obvelata** Rudolphi, 1802.
Host—*Mus musculus*, *M. dubius*, Man, *Macaca* sp., Muridae.
Locality—India; Pakistan—Layalpur. (397)
730. **S. sciuri** Mirza and Singh, 1934.
Host—*Funambulus palmarum* (= *Sciurus palmarum*); Locality—India. (313)
731. **S. srivastavi** Sinha, 1960.
Host—*Sus scrofa* (=domestic pig); Locality—India. (459)
732. **S. tineri** Khera, 1956.
Host—*Rattus norvegicus*; Location—appendix; Locality—India—Lucknow, U.P. (226)
733. **Skrjabinema ovis** (Skrjabin, 1915) Wereschtchagin, 1926.
Host—*Capra hircus*, *Gazella* sp., *Gazella subgutturosa*, *Ovis aries*;
Locality—India; Australia; Egypt; England; Germany; Mongolia; Poland; Siberia; U.S.A. (537)
- (N)734. **Wellcomia compar** (Leidy, 1856) Price, 1930.
Syn. *Oxyuris compar* Leidy, 1856.
Host—*Felis* sp. (=cat); Locality—India—Indian Museum Building, Calcutta, W.B.; N. America. (245)
735. **W. indica** Singh, 1962.
Host—*Petaurista petaurista albiventer*; Location—intestine and rectum; Locality—India—Mukteswar, Kumaun, U.P. (446)
736. **W. taylori** Abdussalam, 1928.
Host—*P. petaurista albiventer* (= *Pteromys inornatus*); Locality—India—Western Himalayas. (1)

APPENDIX TO OXYURIDAE

737. **Acanthoxynema lucknowensis** Khera, 1956.

Host—*Capra* sp. (=goat); Location—intestine; Locality—India—Lucknow, U.P. (226)

Family ATRACTIDAE Travassos, 1919.

Subfamily ATRACTINAE Railliet, 1917.

738. **Leiperemia galebi** Khalil, 1922.

Host—*Elephas maximus indicus* (=Indian Elephant); Location—intestine; Locality—India. (217)

Subfamily CROSSOCEPHALINAE Yorke and Maplestone, 1926.

(N)739. **Crossocephalus brevicaudatus** Baylis and Daubney, 1922.

Host—*Rhinoceros indicus*, *R. unicornis*; Location—stomach; Locality—India—Janakpur, Nepal Terai. (62)

Family CRUZIIDAE Yorke and Maplestone, 1926.

(T)740. **Pseudocruzia orientalis** (Maplestone, 1930) Wolfgang, 1953.

Syn. *Cruzia orientalis* Maplestone, 1930.

Host—*Sus* sp. (=pig); Locality—India. (290)

Family HETERAKIDAE Railliet and Henry, 1914.

Subfamily HETERAKINAE Railliet and Henry, 1912.

(N)741. **Heterakis girardi** (Lane, 1917) Baylis, 1936.

Syn. *Gireterakis girardi* Lane, 1917.

Host—*Arvicola torquata*, *Bandicota*, *Hystrix hodgsoni* (= *H. bengalensis*); Location—intestine; Locality—India—Calcutta Zoo, W.B.; Hyderabad, A.P.; Kabul; Nepal. (238)

(N)742. **H. spumosa** Schneider, 1866.

Syn. *Heterakis dahomensis* Gendré, 1911 part; *Ganguleterakis gangula* Lane, 1914; *G. spumosa* Lane, 1917.

Host—*Cricetomys gambianus*, *Felis* sp. (=domestic cat), *Rattus norvegicus* (= *Mus decumanus*), *R. rattus* and experimentally in *Sigmodon hispidus hispidus*; Location—intestine, rectum and caecum; Locality—India—Berhampur and Calcutta, W.B.; Mukteswar, U.P.; Bangla Desh; Coimopolitan. (426)

Family SUBULURIDAE Yorke and Maplestone, 1926.

Subfamily SUBULURINAE Travassos, 1914.

(T, N)743. **Subulura andersoni** (Cobbold, 1876) Railliet and Henry, 1914.

Syn. *Ascaris andersoni* Cobbold, 1876; *Latibuccana funambulensis* Patwardhan, 1935; *Subulura hindi* Mirza, 1936.

Host—*Funambulus palmarum*, *F. pennanti*, *Rattus norvegicus* (= *Mus decumanus*), *Sciurus* sp.; Location—caecum; Locality—India—Benaras, U.P.; Calcutta, W.B.; Kanthalai, Nagpur, Maharashtra. (124)

744. **S. distatus** Rudolphi, 1809.

Host—*Felis rufus texensis*, Apes & Monkeys; Locality—Sri Lanka; Africa; Arabia; Borneo; Sumatra; Texas to California. (400)

745. **S. indica** Khera, 1956.

Host—*Loris tardigradus lydekkerianus*; Location—intestine; Locality—India—Lucknow, U.P.; South India. (226)

746. **S. perarmata** (Raitzel, 1868) Travassos, 1913.

Syn. *Heterakis perarmata* Raitzel, 1868; *Filaria sarasinorum* Meyer, 1896; *Subulura sarasinorum* (Meyer, 1896); **Tarsubulura perarmata* (Raitzel, 1868) Inglis, 1958.

Host—*Loris tardigradus grandis*, *L. t. tardigradus*, *Tarsius spectrum*; Location—intestine; Locality—India—Calcutta Zoo, W.B.; Asia; Sri Lanka; Borneo. (537)

747. **S. vulpis** Khera, 1956.

Host—*Vulpes bengalensis*; Location—intestine; Locality—India—Thamarwa, Hardoi, U.P. (226)

748. **Oxynema alatum** Mazhar, 1933.

Host—*Vulpes alopex*; Location—intestine; Locality—India—Aligarh, U.P.; Calcutta Zoo, W.B. (301)

749. **O. crassispiculum** Sonsino, 1889.

Host—*Megalotis cerdo*, *Vulpes* sp. (=fox); Locality—India—Calcutta Zoo, W.B.; Africa; Egypt; Russia. (465)

Order ASCARIDIDEA Yamaguti, 1961.

Family ASCARIDIDAE Blanchard, 1849.

Subfamily ASCARIDINAE Lane, 1923.

750. **Ascaris felisi** Mahmood and Sood, 1968.

Host—*Panthera leo* (= *Felis leo*); Location—intestine; Locality—India—Lucknow Zoo, U.P. (282a)

(N)751. **A. lumbricoides** Linnaeus, 1758.

Syn. *Ascaris gigas* Goeze, 1782; *A. suum* Goeze, 1782; *A. suis* Gmelin, 1790; *Fusaria lumbricoides hominum* Zeder, 1800; *F. l. suis* Zeder, 1800; *F. l. suum* Rudolphi, 1809; *Lumbricus teres hominis* Rudolphi, 1809; *A. gigas hominis* Rudolphi, 1809; *A. g. suis* Rudolphi, 1809; *A. ovis* Rudolphi, 1819; *A. suilla* Dujardin, 1845; *A. bifaria* Baird, 1853.

Host—*Macaca* sp., Man, *Sus scrofa cristatus*, *Sciurus indicus*, *S. pygerythrus*, occasionally *Ovis* sp. (=sheep) and *Capra* sp. (=goat),

* Inglis (1958) created a new genus *Tarsubulura* but we consider this unjustified being based on minor differences as such this is included in the synonymy.

rarely in *Canis* sp. (=dog) and *Ursus arctos*; Location—intestine; Locality—India—Bengal; Bihar; M.P.; Karnataka; Punjab; U.P.; Cosmopolitan. (253)

752. **Parascaris equorum** (Goeze, 1782).

Syn. *Ascaris equorum* Goeze, 1782; *Fusaria lumbricoides equorum* Zeder, 1800; *Ascaris gigas equi* Rudolphi, 1809; (N) *A. megalcephala* Cloquet, 1824; *A. laevisissima* Baird, 1853; *Parascaris equorum* Yorke and Maplestone, 1926.

Host—Equines (=donkey, horse, mule, zebra) also in *Bos* sp. (=cattle); Locality—India—Assam; Calcutta, W.B., Tamil Nadu; Mukteswar, U.P.; Punjab; Pakistan—Lahore; Cosmopolitan. (172)

(N)753. **Toxascaris leonina** (Linstow, 1902) Railliet and Henry, 1911.

Syn. *Ascaris leonina* Linstow, 1902; *Toxascaris marginata* Leiper, 1907; *Ascaris canis* Glave, 1909; *Toxascaris limbata* Railliet and Henry, 1911; *T. microntera* Railliet and Henry, 1911.

Host—*Acinonyx jubatus* (= *Cynaelurus jubatus*), *Canis procynoides*, *Canis* sp., *Felis bengalensis*, *F. viverrina*, *Lycon pictus*, *Lynx* sp., *Panthera leo* (= *Felis leo*), *P. pardus* (= *F. pardus*), *P. tigris* (= *Felis tigris*), *P. uncia* (= *F. unica*), *Urocyon* sp., *Vulpes* sp.; Locality—India—Calcutta Zoo, W.B.; Tamil Nadu; Trivandrum, Kerala; Cosmopolitan. (265)

754. **T. melursus** Khera, 1951.

Host—*Melursus ursinus*; Location—alimentary canal; Locality—India—Lucknow, U.P. (219)

(N)755. **T. transfuga** (Rudolphi, 1819) Baylis and Daubney, 1922.

Syn. *Ascaris transfuga* Rudolphi, 1819.

Host—*Aelurus fulgens*, *Melursus ursinus*, *Selenarctos thibetanus* (= *Ursus torquatus*), *Ursus arctos* (=Brown bear), *Thalarctos* sp. (=Polar bear); Locality—India—Calcutta Zoo, W.B.; N. America; Russia. (401)

Subfamily TOXOCARINAE Yamaguti, 1961.

(N)756. **Toxocara canis** (Werner, 1782) Stiles, 1905 in Stiles and Hassall.

Syn. *Lumbricus canis* Werner, 1782; *Ascaris vulpis* Frolich, 1789; *A. triquetra* Schrank, 1790; *A. werneri* Rudolphi, 1793; *Fusaria triquetra* Zeder, 1800; *Ascaris marginata* Rudolphi, 1802; *Belascaris marginata* Railliet and Henry, 1911; *B. vulpes* Railliet and Henry, 1911.

Host—*Canis aureus*, *C. lupus pallipes* (= *Canis pallipes*), *Canis* sp. (=dog), *Vulpes bengalensis* (=Indian fox); Location—intestine; Locality—India—Bareilly and Mukteswar, U.P.; Calcutta, W.B.; Tamil Nadu; Punjab; Sri Lanka—Colombo; Cosmopolitan. (531)

757. **T. elephantis** (Rudolphi, 1809), Baylis, 1936.

Syn. *Strongylus elephantis* Rudolphi, 1809; *S. elephantis indici* Diesing, 1851; *Ascaris lonchoptera* Diesing, 1851; *A. elephantis jackson* Diesing, 1851; *Strongylus elephantis* Cobbold, 1879; *Belascaris lonchoptera* Leiper, 1922.

Host—*Elephas maximus indicus*; Location—bile duct; Locality—India—Kapurthala, Punjab; Burma; Europe; Geneva; U.S.A.; Boston. (401)

(N)758. **T. mystax** (Zeder, 1800) Baylis, 1936.

Syn. *Fusaria mystax* Zeder, 1800; *Ascaris mystax* Rudolphi, 1802; *A. alata* Bellingham, 1839; *A. globulus* Linstow, 1899; *Belascaris mystax* Castellani and Chalmers, 1910; *B. cati* Railliet and Henry, 1911.

Host—*Felis bengalensis*, *F. chaus*, *F. viverrina* (=Fishing cat), *Felis* sp. (=domestic cat), *Panthera leo* (= *Felis leo*), *P. pardus* (= *F. pardus*), *P. tigris* (= *F. tigris*), *Martes* sp., *Masua* sp., Siamese cat, and other tribes of cat, *Lynx* sp., *Herpestis* sp., Man; Location—intestine; Locality—India—Aligarh, U.P.; Calcutta, W.B.; Tamil Nadu; Punjab; Sri Lanka—Wirawila; Bangla Desh—Dacca; Nepal; Pretoria; Cosmopolitan. (549)

759. **Neoascaris mackerrase** Sprent, 1957.

Host—*Bandicota bengalensis*, *Rattus assimilis*, *R. norvegicus*, *R. rattus*; Locality—India—Bombay; Australia—Queensland. (487)

(N)760. **N. vitulorum** (Goeze, 1782) Sprent, 1957.

Syn. *Ascaris vitulorum* Goeze, 1782; *Lumbricus teres vituli* Rudolphi, 1809; *Ascaris gigas vituli* Rudolphi, 1809; *A. vituli* Neumann, 1883 not Gmelin, 1790; *Neoascaris vitulorum* Travassos, 1927.

Host—*Bos indicus* (=Cattle), *Bos* sp. (=Zebu), Bovines (=cattle, calves), *Bubalus bubalis*; Location—intestine; Locality—India—Siripur, Bihar; Punjab; Sri Lanka—Colombo; Africa; Europe; China; Indonesia; Japan; Philippines; N. & S. America. (172)

Family HETEROCEILIDAE Railliet and Henry, 1915.

Subfamily FILOCAPSULARIINAE Yamaguti, 1961.

761. **Filocapsularia dussumierii** Benden, 1870.

Syn. *Ascaris simplex* Dujardiu, 1845, not Rudolphi, 1809.

Host—*Delphinus* sp., *Physter catadon*; Locality—Maldiva Isl.; Indian and Pacific Oceans. (68)

762. **F. marina** (Linnaeus, 1767) Yamaguti, 1961.

Syn. *Ascaris marina* Linn. 1767; *Gordius harengum* Bloch, 1782; *Ascaris helecis* Gmelin, 1790; *Capsularia salaris* Gmelin, 1790; *Ascaris clupearum* Fabraceut, 1794; *A. capsularia* Rudolphi, 1802; *A. simplex* Rudolphi, 1809; *Filaria piscium* Rudolphi, 1809; *Filocapsularia communis* Deslongchamps, 1824; *Ascaris angulivalvis* Creplin, 1851; *A. filholi* Chatin, 1885; *A. nelsoni* Chatin, 1885; *A. sphyranurae* Linstow, 1906; *A. thyrsitis* Linstow, 1908; *A. sphyraenae* Baylis, 1916; *Anisakis catodontis* Baylis, 1929; *A. salaris* (Gmelin, 1790) Yamaguti, 1935.

Host—Various marine mammals (Larva encysted in various marine fishes also); Locality—India; Cosmopolitan. (254)

(N)763. **Contracaecum lobulatum** (Schneider, 1866).

Syn. *Ascaris lobulata* Schneider, 1866; *A. delphini* Rudolphi, 1819;

Host—*Platanista gangetica* (= *Delphinus gangeticus*); Location—mouth, intestine, stomach; Locality—India—Ganges; Hoogly, W.B. (426)

764. **Paradujardinia halicoris** (Owen, 1833) Travassos, 1933.
 Syn. *Dujardinia halicoris* (Owen, 1833); *Ascaris halicoris* Owen, 1833; *Dujardinia halicoris* Baylis, 1920.
 Host—*Halicore dugong*, *Halicore* sp.; Location—intestine; Locality—India—Tirapalakudi, near Ramnad, Tami Nadu; Palao, Gulf of Mannar; Red Sea; Pacific Ocean. (335)
- (T)765. **Porrocaecum molemensis** Soota and Chaturvedi, 1971.
 Host—*Rattus rattus rufescens*; Location—intestine; Locality—India—Molem; Goa. (482)
766. **Porrocaecum ratti** Singh, 1962.
 Host—*Rattus norvegicus*; Location—intestine; Locality—India—Mukteswar, Kumaun, U.P. (444)
- (T)767. **P. pennanti** Soota and Chaturvedi, 1970.
 Host—*Funambulus pennanti*; Location—intestine; Locality—India—Waltair, A.P. (476.)
- (T)768. **Viverranisakis molemensis** Soota and Chaturvedi, 1971.
 Host—*Viverricula malaccensis indica*; *Felis Chaus*; Location—intestine; Locality—Molem, Goa. (482)
- Order SPIRURIDEA Diesing, 1861.
 Family SPIRURIDAE Oerley, 1885.
 Subfamily SPIRURINAE Railliet, 1915.
- (N)769. **Spirura narayani** Mirza and Basir, 1938.
 Host—*Herpestes edwardsi* (= *H. mungo*); Location—stomach; Locality—India—Hyderabad, A.P. (310)
- (N)770. **Castronodus strassenii** Singh, 1934.
 Host—*Suncus murinus* (= *Crocidura caerulea*); Location—stomach and nodules; Locality—India—Hyderabad, A.P.; Bangla Desh. (449)
771. **Habronema manidis** (Diesing, 1851).
 Syn. *Ascaris manidis* Diesing, 1851; *Filaria zschokkei* Meyer, 1896; *Spiroptera orca* Linstow, 1906.
 Host—*Manis gigantea*, *M. pentadactyla*; Locality—India; Belgian Congo. (141)
- (N)772. **H. megastoma** Rudolphi, 1819.
 Syn. *Dermofilaria irritans* Rivolta, 1884.
 Host—Equines—Horse, donkey, mule, zebra; Location—stomach, nodules, abscess of spleen; Locality—India—Bangalore, Karnataka; Hyderabad, A.P.; Tamil Nadu; Mukteswar, U.P.; Punjab; Pakistan; N.W. Frontier; Burma; Cosmopolitan. (401)

- (N)773. **H. microstoma** (Schneider, 1866) Ransom, 1911.

Syn. *Filaria microstoma* Schneider, 1866; *Habronema majus* Schneider, 1866; *Spiroptera microstoma* Zuru, 1872; ? *Filaria stomoxeas* Linstow, 1875; ? *F. irritans* Railliet, 1885; ? *Spiroptera stomoxeas* Seurat, 1916.

Host—Equines—donkey, horse, mule, zebra; Location—stomach-mucosa; Locality—India—Hyderabad, A.P.; Tamil Nadu; Mukteswar, U.P.; Punjab; Lahore, Pakistan; N.W. Frontier; Cosmopolitan. (426)

- (N)774. **H. muscae** (Carter, 1861) Diesing, 1861.

Syn. *Filaria muscae* Carter, 1861; *Spirura muscae* Marotel, 1913.

Host—Equines—donkey, horse, mule, zebra; Location—mucosa of cardiac stomach; Locality—India—Bombay; Hyderabad, A.P.; Tamil Nadu; Mukteswar, U.P.; Punjab; Pakistan—N.W. Frontier; Cosmopolitan. (89)

775. **Protospirura magna** (Khera, 1956) Yamaguti, 1961.

Syn. *Mastophorus magnus* Khera, 1956.

Host—*Rattus rattus*; Location—stomach; Locality—India—Lucknow, U.P. (226)

776. **P. muris** (Gmelin, 1790) Seurat, 1915.

Syn. *Ascaris muris* Gmelin, 1790; *A. obtusa* Frolich, 1791; *Fusaria muris* Zeder, 1803; *Lumbricus muris* Rudolphi, 1809; *Spiroptera obtusa* Rudolphi, 1819; *Filaria obtusa* Schneider, 1866; *F. muris* Stossich, 1897; *Spiroptera bruni* Linstow, 1897.

Host—*Apodemus* sp.; *Clethrionomys* sp., *Cricetus* sp., *Mus* sp., *Rattus* sp., *Sigmodon* sp., *Sylvilagus* sp.; Locality—Pakistan—Layalpur; Cosmopolitan. (171)

- (N)777. **Spirocerca lupi** (Rudolphi, 1809) Chitwood, 1933;

Syn. *Strongylus lupi* Rudolphi, 1809; *Spiroptera sanguinolenta* Rudolphi, 1819; *Filaria sanguinolenta* Railliet and Henry, 1911; *Spirura sanguinolenta* Seurat, 1912.

Host—*Canis* spp. (=dog, jackal, wolf), *Erinaceus* sp., *Felis* sp. (=cat), *Lynx* sp., *Macaca* sp., *Panthera uncia*, *Vulpes* sp. [also in *Bufo mauritanicus*, Amphibia]; Location—stomach; Locality—India—Calcutta, W.B.; Pakistan—Lahore; Sri Lanka; Afghanistan; Africa; Europe; China; Japan; Indonesia; Palestine; Philippines. (400)

778. **Taphozia aurangabadensis** Ali and Lovekar, 1966.

Host—*Taphozous kachhensis*; Location—oesophagus; Locality—India—Aurangabad, Maharashtra. (31a)

Subfamily ASCAROPSINAE Alicata and McIntosh, 1933.

779. **Ascarops dentata** (Linstow, 1904) Alicata and McIntosh, 1933.

Syn. *Spiroptera dentata* Linstow, 1904; *Arduenna dentata* Railliet and Henry 1911.

Host—*Sus barbatus*, *S. scrofa cristatus*; Location—stomach; Locality—India; Sri Lanka; Annam; Borneo; Indochina; Malaya. (267)

- (N)780. **A. strongylina** (Rudolphi, 1819) Alicata and McIntosh, 1933.
 Syn. *Spiroptera strongylina* Rudolphi, 1819; *S. strongyliformis* Blain Ville, 1828; *Filaria strongylina* Schneider, 1866; *Arduenna strongylina* Railliet and Henry, 1911; *Habronema strongylina* Ostertag, 1932.
 Host—*Sus* spp. (=pigs, wild and domestic boar); Location—stomach and intestine; Locality—India—Calcutta, W.B.; Africa; Asia; Australia; Argentina; Brazil; China; Sri Lanka; Formosa; Indochina; Celebes; Manchuria; Philippines; Puerto Rico, U.S.A. (401)
- (T)781. **Cylicospirura felina** (Chandler, 1925) Sandground, 1933.
 Syn. *Spirocerca subaequalis* Seurat, 1913, not Molin, 1860; *Spirocerca felineus* Chandler, 1925; *Cylicospirura subaequalis* Petrow, 1925, not Veyers, 1923.
 Host—*Felis* sp. (=domestic cat, cat), *F. ocreata*, *F. bengalensis*; Location—stomach; Locality—India—Calcutta, W.B.; Algeria; Indochina. (109)
782. **C. subaequalis** (Molin, 1860)
 Syn. *Spiroptera subaequalis* Molin, 1860.
 Host—*Felis* sp. (=cat), *F. mellivora*, *F. concolor*, *Panthera leo* (=lion), *P. tigris* (=tiger), *Vulpes vulpes*; Locality—India; Brazil; China; Malaya. (318)
783. **Physocephalus (Physocephaloides) primus** (Maplestone, 1932) Yamaguti, 1961.
 Syn. *Physocephaloides primus* Maplestone, 1932.
 Host—*Hylobates hoolock*; Location—intestine; Locality—India—Calcutta Zoo, W.B. (293)
- (N)784. **P. sexalatus** (Molin, 1860) Diesing, 1861.
 Syn. *Spiroptera sexalata* Molin, 1860; *S. strongylina suis labiati* Molin, 1860; *Filaria striges* Linstow, 1877, not Gmelin, 1790; *F. strongylina* Linstow, 1879; not Schneider, 1866; *F. sexalata* Perroncito, 1891; *Agamonema affine* Linstow, 1909; *Spiroptera (Filaria) striges* Seurat, 1915; *Habronema sexalata* Ostertag, 1932; ? *Mastophorus globocaudatus* Diesing, 1853.
 Host—*Bos* sp. (=ox), Equines (=donkey, horse), *Bradypus griseus*, *Dicotyles* sp., *Camelus* sp., *Sus scrofa*, *Sigmodon hispidus*, *Pecari angulatus angulatus* (=Pecary); Location—intestine and stomach; Locality—India—Calcutta, W.B.; Sri Lanka; Africa; Cuba; Australia; Columbia; Europe; Florida; Madagascar; Malaya; Panama; U.S.A. (318)
785. **Simondsia paradoxa** Cobbold, 1864.
 Host—*Sus scrofa*, *Tinga alpina*; Locality—India; Formosa; Europe; Shanghai; Warsaw. (123)
786. **Streptopharagus indica** Gupta and Sood, 1969.
 Host—*Macaca mullata*; Location—rectum; Locality—India—Lucknow, U.P. (183b)
- (T)787. **S. kolayatensis** Soota and Chaturvedi, 1971.
 Host—*Tatera indica*; Location—stomach; Locality—India—Kolayat, Bikaner, Rajasthan. (480)

- (N)788. **S. pigmentatus** (Linstow, 1897) Railliet and Henry, 1911.

Syn. *Spiroptera pigmentata* Linstow, 1897; *Streptopharagus armatus* Blanc, 1912; *S. intermedius* Ortlepp, 1925; (TN) *S. magnus* Maplestone, 1929.

Host—*Cercopithecus*, *Colobus*, *Hylobates hoolock*, *Papio* sp., *Macaca* sp., *Pithecus*; Location—stomach; Locality—India—Calcutta Zoo, W.B. (261)

789. **Gongylonema capucini** Maplestone, 1939.

Host—*Cebus capucinus*; Locality—India—Calcutta, Zoo, W.B. (297)

790. **G. microgubernaculum** Gebaur, 1933.

Host—*Macaca silenus* (= *Silenus rhesus*). Locality—India ? (165)

791. **G. neoplasticum** (Fibiger and Ditlevsen, 1914).

Syn. *Gongylonema neoplasticum* Fibiger and Ditlevsen, 1914; *Spiroptera neoplastica* (Fibiger and Ditlevsen, 1914) Fibiger and Ditlevsen, 1914; *Gongylonema neoplasticum orientale* Yokogawa, 1924.

Host—*Apodemus* sp., *Cricetulus* sp., *Dipodomys* sp., *Cavia* sp., *Erinaceus europaeus*, *Lepus* sp., *Mesocricetus* sp., *Microtus* sp., *Rattus norvegicus* [= *Mus decumanus* (= *Epimys norvegicus*)], *Oryctolagus cuniculus*, *Sciurus vulgaris*, *Stylopyga americana*, *S. orientalis*; Locality—India; Cosmopolitan. (155)

- (N)792. **G. pulchrum** Molin, 1857.

Syn. *Gongylonema spirale* Molin, 1857; ? *G. filiforme* Molin, 1857; ? *G. contortum* Molin, 1860; *Filaria labialis* Pane, 1864; *Spiroptera scutata oesophagea bovis* Muller, 1869; *Filaria scutata* Leuckart, 1873; *Spiroptera scutata* Korzil, 1877; *Filaria scutata* Korzil 1877; *Filaria scutata oesophagea bovis* Perroncito, 1882; *Gongylonema scutatum* Railliet, 1892; *Myzomimus scutatus* Stiles, 1892; *Gongylonema ursi* Neumann, 1894; *G. confusum* Sonsino, 1896; *G. subtile* Alessandrini, 1914; *G. hominis* Stiles, 1921; *G. ransomi* Chapin, 1922.

Host—*Bos* sp. (=cattle, ox, zebu), *Bubalus bubalis* (=buffalo), *Camelus* sp., *Ateles*, *Cebus* sp., *Capra* sp., Cervidae, *Didelphis* sp., Equine; (=donkey, horse), *Erinaceus algirus*, *Macaca* sp., Man, *Mephitis*, *Macaca sinica*, *Macroscelides rozeti*, Mouse deer, *Odocoillus* sp., *Redunca* sp., *Sus* sp. (=domestic and wild boar), *Tatera indica*, *Tragulus* sp.; Location—mouth, tongue, oesophagus; rumen; Locality—India—Assam; Bangalore, Karnataka; Tamil Nadu; Mukteswar, U.P.; Punjab (very common in North India); Cosmopolitan. (314)

793. **G. verrucosum** (Giles, 1892) Neumann, 1894.

Syn. *Trichosomum verrucosum* Giles, 1892; *Spiroptera verrucosa* Giles, 1892; not Molin, 1860; *Gongylonema crenatum* Railliet, 1898.

Host—*Bos* sp. (=cattle, zebu), *Bos indicus*, *Capra ibex sibirica*, *Capra* sp. (=goat), *Odocoillus virginianus*, *Ovis* sp. (=sheep); Location—rumen; Locality—India—Bihar; Mukteswar, U.P.; Shillong, Assam; Africa; Australia; Cyprus; Formosa; N. America. (170)

Family ACURIIDAE Seurat, 1913.

794. **Parabronema indicum** Baylis, 1921.

Host—*Elephas maximus indicus*; Location—stomach wall; Locality—India—Tamil Nadu. (50)

795. **P. smithi** (Cobbold, 1882) Baylis, 1921.

Syn. *Filaria smithi* Cobbold, 1882, not Sambson, 1907.

Host—*Elephas maximus indicus*; Location—stomach wall and intestine; Locality—India—W.B. (127)

Family GNATHOSTOMATIDAE Lane, 1923.

Subfamily GNATHOSTOMATINAE Lane, 1923.

(N)796. **Gnathostoma doloresi** Tubangui, 1925.

Host—*Sus* sp. (=pig); Location—stomach; Locality—India Calcutta, W.B.; Japan; Malaya; Philippine. (517)

797. **G. hispidum** Fedchenko, 1872.

Syn. *Gnathostoma hispidum suis* Csokor, 1882; *Cheiracanthus hispidus* Csokor 1882; *C. hispidus* Linstow, 1893; *Gnathostoma hispidus* Bhalerao, 1935.

Host—*Bos taurus*, *Sus scrofa*; Location—stomach; Locality—India; Sri Lanka; Austria; Congo; China; Hungary; Indochina; Malaya; Turkistan. (153)

(N)798. **G. spinigerum** Owen, 1836.

Syn. *Cheiracanthus robustus* Diesing, 1838; *C. socialis* Leidy, 1859; *Filaria radula* Schneider, 1866; *Cheiracanthus siamensis* Levinsen, 1889; *Gnathostoma paronai* Parota, 1908; *G. spinigerum* Mitter, 1912.

Host—*Canis* sp. (=dog), *Felis viverrina*, *Felis* sp. (=cat), *Panthera pardus* (= *Felis pardus*), *P. tigris* (= *F. tigris*), rat and skin of man; Location—stomach, tumour; Locality—India—Calcutta Zoo, W.B.; Burma; Sri Lanka; Australia; China; Indochina; Japan; Korea; Malaya; U.S.A. (337)

Family PHYSALOPTERIDAE Leiper, 1908.

Subfamily PHYSALOPTERINAE Stossich, 1908.

799. **Abbreviata musculi** (Thwaite, 1927).

Syn. *Physaloptera musculi* Thwaite, 1927.

Host—*Mus* sp. [House mouse (=domestic mouse)]; Location—intestine; Locality—Sri Lanka—Colombo. (508)

800. **Physaloptera brevispiculum** Linstow, 1906.

Syn. *Physaloptera malayensis* Ortlepp, 1923; *Chlamydonema malayense* Yorke and Maplestone, 1926; *C. fulleborni* Mirza and Singh, 1934.

Host—*Felis chaus*, *F. temminki*, Bush cat, Hyaena, Domestic cat, *Panthera tigris* (= *Felis tigris*), ? Tiger cat. Location—stomach; Locality—India; Sri Lanka; Malaya; Nigeria. (270)

- (T)801. **P. masoodi** (Mirza, 1934)? Baylis, 1939.

Syn. *Chlamydonema masoodi* Mirza, 1934.

Host—*Felis chaus*; Location—stomach and intestine; Locality—India—Aligarh, U.P. (305)

- (N)802. **P. praeputialis** Linstow, 1899.

Syn. *Chlamydonema felineum* Hegt, 1910; *C. preputialis* Travassos, 1917; *Physaloptera preputialis* Travassos, 1917; *Chlamydonema praeputiale* Yorke and Maplestone, 1926.

Host—*Canis mesomelas*, *Genetta ludia*, *Felis bengalensis*, *F. catus*, *F. caffra*, *F. capensis hindei*, *F. paradalis paradalis*, *F. viverrina*, *Panthera leo* (= *Felis leo*), *P. pardus* (= *F. pardus*), *Lynx* sp., *Urocyon* sp., *Vulpes* sp.; Location—stomach; Locality—India—Allahabad, U.P.; Calcutta Zoo, W.B.; Delhi; Nagpur, Maharashtra; Punjab; Burma; Sri Lanka; Africa; Brazil; British Guiana; Cuba; China; Korea; Hawaii; Egypt; Jamaica; Malaya; Puerto Rico; S. America; Mexico; Russia. (259)

803. **P. rara** Hall and Wigdor, 1918.

Syn. *Physaloptera clausa* Caballero and Peregrina, 1938.

Host—Domestic dog (= *Canis familiaris*), *C. latrons*, *C. lupus*, *Procyon* sp., *Urocyon* sp., *Vulpes* sp.; Location—duodenum; Locality—India—Tamil Nadu; N. America. (189)

- (T)804. **Physaloptera temminki** Soota and Chaturvedi, 1971.

Host—*Scotophilus temminki*; Location—intestine; Locality—Khindsi, Ramtek, Maharashtra. (478)

805. **P. tumefaciens** Henry and Blanc, 1912.

Host—*Macaca irus* (= *Macacus cynomolgus*), *M. irus aurea* (= *Macacus fascicularis*), *Pithecus* sp.; Locality—India—Europe. (191)

- *806. **Pseudophysaloptera formosana** (Yokogawa, 1922) Lincicome, 1948.

Syn. *Physaloptera formosana* Yokogawa, 1922.

Host—*Sorex perroteti*, *Sorex* sp.; Locality—India—Aurangabad, Maharashtra; Formosa. (540)

807. **P. indiana** Farooqi and Ali, 1965.

Host—*Sorex murinus*; Location—stomach; Locality—India—Aurangabad; Maharashtra. (152)

808. **P. riukiuna** Lincicome and Mc Connaughey, 1948.

Host—*Suncus murinus riukiuanus*, *S. m. caeruleus* (= *S. caeruleus giganticus*); Locality—Sri Lanka—Colombo; Japan—Okinawa. (152)

809. **P. soricina** Baylis, 1934.

Host—*Crocidura* sp., *Sorex p. personatus*, *Suncus murinus caeruleus* (= *S. caeruleus*); Locality—Sri Lanka; N. America; S. China. (57a)

* Farooqi and Ali, 1965, recognised it as a subspecies *Pseudophysaloptera formosana formosana* (Yokogawa, 1922) Lincicome, 1948. *J. Helminth.* London; **39** (2/3); 203–206, 1965.

Family RICTULARIIDAE Railliet, 1916.

- (N)810. **Rictularia cahirensis** Jagerskiold, 1904.
Host—*Canis azarae*, *Canis*, sp. (=dog), *Felis* sp. (=cat), wolf, *Viverricula malaccensis indica*; Locality—India—Mukteswar, U.P.; Cairo; Cyprus; Azarbaedzhan; Iran; Kazakhstan; Palestine; Russia; S. America. (199)
811. **R. dhanra** Inglis and Ogden, 1965.
Host—*Callosciurus pygerythrus lokroides*; Location—intestine; Locality—Nepal. (198)
812. **R. elvirae** Parona, 1889.
Host—*Dremomys rufigenis*; Location—intestine; Locality—Burma—Mt. Moaleyit, Dana mount; Tenasserim; S. Kirgizia. (342)
813. **R. mjobergi** Baylis, 1928.
Host—*Arctictis binturong*, *Canis* sp. (=dog), *Felis* sp. (=cat), *Pagauma larvata*; Locality—India; China; Sarawak. (53)
- (T)814. **R. nicobarensis** Soota and Chaturvedi, 1970.
Host—*Rattus rattus holchu*; Location—intestine; Locality—India—CarNicobar. (475)
815. **R. ratti** Khera, 1956.
Host—*Rattus norvegicus*; Location—intestine and stomach; Locality—India—Lucknow, U.P. (226)

Family SEURATIDAE Railliet, 1916.

Subfamily SEURATINAE Hall, 1916.

816. **Monovaria rhinolophensia** Khera, 1955.
Host—*Rhinolophus affinis*; Location—intestine; Locality—India—Thamarwa, Hardoi, U.P. (222)

Family THELAZIIDAE Railliet, 1916.

Subfamily THELAZINAE Baylis and Daubney, 1922.

817. **Thelazia bubalis** Ramanujachari and Alwar, 1952.
Host—*Bubalus bubalis*; (= *Bos bubalis*); Locality—India. (371)
818. **T. callipaeda** Railliet and Henry, 1910.
Syn. *Filaria palpebralis* Houghton, 1917, not Wilson, 1844; *F. pabrulis* Pace, 1866; ? *Agamofilaria palpebralis* Castellani and Chalmers, 1910; *Pericynema callipaeda* (Railliet and Henry, 1910); *F. circumocularis* Ward, 1918.
Host—*Canis* sp. (=dog), Man, *Macaca* sp., *Nycteruetes procyonides*, *Oryctolagus* sp. (=Rabbit), Rat; Location—conjunctival sac and Nictitating membrane; Locality—India; Pakistan—Rawalpindi; Burma; China; E. Siberia; Indonesia; N. America. (362)

819. **T. leesi** Railliet and Henry, 1910.

Syn. *Thelazia leesi* Neveu-Le-maire, 1912.

Host—*Camelus* sp.; Location—eyes, vitreous humour; Locality—India—Punjab; Turkmenia. (362)^y

820. **T. lacrymalis** (Gurlt, 1831) Railliet and Henry, 1910.

Syn. *Filaria lacrymalis* Gurlt, 1831 (part); *Thelazia rhodii* Gurlt, 1831 (part); *Filaria palpebralis* Wilson, 1844; not Pace, 1866, not Houghton, 1917; *F. lachrymalis* March, 1860; *F. lacrymalis* Moroni, 1864; not Dubini, 1850; *Spiroptera lachrymalis* Cobbold, 1874; *Filaria lakrymalis* Schneidemuhl, 1896 (part).

Host—*Bos* sp. (=cattle), *Bubalus* sp. (=Buffalo), *Canis* sp. (=dog), *Camelus* sp., *Equus* sp. (=horse). Location—lacrymal ducts and aqueous humour of eyes; Locality—India; Burma; Brazil; Formosa; Europe; Siberia. (127)

- (N)821. **T. rhodesii** (Desmarest, 1828) Blainville, 1828.

Syn. *Thelazia rhodesii* Desmarest, 1828; *T. rhodii* Gurlt, 1831 (part); *Filaria lacrymalis* Gurlt, 1831 (part); *F. bovis* Railliet, 1858; *F. palpebrarum* Railliet, 1858; *Thelazia rhodesi* Railliet and Henry, 1910; *T. floresiana* Smit and Noto-Soediro, 1930.

Host—*Bos* sp. (=cattle), *B. taurus*, *Bubalus* sp., *Equus* sp. (=horse); Location—eyes, lacrymal duct; Locality—India—Bombay, Nagpur, Maharashtra; Calcutta, W.B.; Tamil Nadu; Mukteswar, U.P.; Africa; China; Cyprus; Europe; Formosa, Japan; Java; Korea; Sumatra; U.S.A. (138)

Subfamily VOGELOIDINAE Dougherty, 1952.

822. **Vogeloides lerouxi** Biocca and Chabaud, 1963.

Host—*Viverricula indica*; Locality—India. (79)

823. **V. ramanujacharii** Alwar, Lalitha and Senviratna, 1958.

Host—*Felis* sp. (= *Felis catus*). Locality—India. (33)

Order FILARIIDEA Yamaguti, 1961.

Family FILARIIDAE Claus, 1885.

Subfamily FILARIINAE Stiles, 1907.

824. **Filaria martis** Gmelin, 1790.

Syn. *Filaria mustelarum subcutanea* Rudolphi, 1819; *F. musteali foinae* Cteplin, 1846; *F. quadrispina* Diesing, 1851; *F. perforans* Molin, 1858; *F. mustelae barbarae* Molin, 1858; *F. carvalhoi* Freitas and Lent, 1937; *F. texensis* Chandler, 1947; *F. coneptati* Schuurmans Stekhoven, 1952.

Host—*Hystrix* sp., *Conepatus* sp., *Erathizon* sp., *Ictonyx* sp., *Lutreola* sp., *Martes* sp., *Meles* sp., *Mellivora* sp., *Mephitis* sp., *Orycteolagus* sp., *Putorius* sp., *Taxida* sp.; Locality—India; Africa, Argentina; Brazil; Mexico; N. America. (171)

825. **Parafilaria bovicola** Tubangui, 1934.

Host—*Bos* sp. (=cattles); Location—nodules of skin; Locality—India; Bulgaria; Philippines. (518)

826. **P. multipapillosa** (Condamine and Dronilly, 1878) Yorke and Maplestone, 1926.

Syn. *Filaria multipapillosa* Condamine and Dronilly, 1878; *F. haemorrhagica* Railliet, 1885; *Setaria haemorrhagica* Stephens, 1916; *Microfilaria haemorrhagica* Ramanovitch, 1916.

Host—Equines (=Horse, Donkey, Mule); Location—Subcutaneous tissue and intermuscular tissue; Locality—India—Tamil Nadu; Punjab; Asia; Europe. (129)

827. **P. sahaii** Srivastava and Dutt, 1959.

Host—Buffaloes; Locality—India. (487a)

Subfamily DICHEILONEMATINAE Wehr, 1935.

828. **Papillosetaria veversi** Maplestone, 1931.

Host—*Tragulus javanicus*; Location—peritoneal surface of the abdominal wall; Locality—India—Calcutta Zoo, W.B.; Java. (292)

829. **Setaria cervi** (Rudolphi, 1819) Baylis, 1936.

Syn. *Filaria cervi* Rudolphi, 1819; *F. bubali* Rudolphi, 1819; *Setaris labiatopapillosa* Atles, 1838; *Filaria cervina* Dujardin, 1845; *F. tentaculata* Mehlis and Creplin, 1846; *F. terebra* Diesing, 1851 (part); *F. bidentata* Molin, 1858; *F. cervi elaphi* Molin, 1858; *F. bubali abdominalis* Molin, 1858; *F. labiatopapillare* Perroncito, 1882; **F. labiatopapillosa* Perroncito, 1882; *F. labiatopapillosa* Railliet, 1888; **F. digitata* Linstow, 1906; *Setaria labiatopapillosa* Railliet and Henry, 1911; *S. digitata* Railliet and Henry, 1911; **S. altaica* Rajewskja 1928; *S. cervi* Maplestone, 1931; *S. buxi* Bhalerao, 1933.

Host—Antelope, *Bos indicus*, *Bos* sp. (=cattle), *B. taurus*, *Bubalus bubalis*, *Capra ibex siberica* (= *C. siberica*), *Capreolus* sp., *Capra* sp. (=goat), Hog deer, *Cervicapra arundinum*, *Cervus elaphus*, *Cephalophus* sp., *Equus caballus*, Moose, *Odocoileus nelsoni*, *Ovis aries*, *Ovis* sp., *Rangifer cariboa*, *Tragelophus sylvaticus*, Hump back Cattle and Yak; Location—Peritoneal cavity; Locality—India—Bombay—Maharashtra; Calcutta Zoo, W.B.; Hyderabad, A.P.; Izatnagar and Mukteswar, U.P.; Burma; Bangla Desh; Cosmopolitan. (401)

830. **S. congolensis** Railliet and Henry, 1911.

Syn. **Setaria bernardi* Railliet and Henry, 1911.

Host—*Phacocoerus porcus*, *Sus scrofa cristatus*, *Sus* sp. (=wild boar); Location—Peritoneal cavity; Locality—Burma; Sri Lanka; Annam; Celebes; Formosa; French Congo; E. Siberia. (364)

- (N)831. **S. equina** (Abildgaard, 1789) Railliet and Henry, 1911.

Syn. *Gordius equinus* Abildgaard, 1789; *Filaria equi* Gmelin, 1790; *F. papillosa* Rudolphi, 1802; *Gordius (Filaria) papillosus* Oken, 1815; *Filaria equina* Blanchard, 1849; *Trichina uncinata* Ercolani, 1859; *Filaria papillosa oculi* Owles, 1859; *F. sanguinis equi* Sonsino, 1876; *F. papillare* Perroncito, 1882; *Setaria equina* Dunglison, 1893; ? *Helminthus gordii* Dunglison, 1895; ? *Microfilaria sanguinis equi* Geddoelst, 1911.

* Yeh (1959) erected n.g. *Artionema* and transferred many species of *Setaria* to it. However, we do not agree with him as the ground of distinction is not very convincing and moreover genus and species key is hostwise which appears undesirable.

Host—Equines—Donkey, Horse, Mule, Zebra, *Bos* sp. (=cattle), Man; Location—intestine, liver, lungs, peritoneal cavity, stomach, thoracic cavity, testicles; Locality—India—Assam; W.B.; Tamil Nadu; Mukteswar, U.P.; Burma; Cosmopolitan. (537)

832. **S. indica** (Dutt, 1963) n.comb.

Syn. *Artionema indica* Dutt, 1963.

Host—*Ovis aries*; Location—peritoneal cavity; Locality—India—Izatnagar, U.P. (150)

833. **S. marshalli** Boulenger, 1921.

Host—*Bos taurus*; Location—peritoneal cavity; Locality—India; Burma; Far East. (86)

Family DIPETALONEMATIDAE Wehr, 1935.

Subfamily DIPETALONEMATINAE Wehr, 1935.

*834. **Dipetalonema digitatum** (Chandler, 1929) Baylis, 1939.

Syn. *Dirofilaria digitatum* Chandler, 1929.

Host—*Hylobates concolor leucogenys* (= *H. leucogenys*), *H. hoolock*, *H. entelloides*, *Macaca* sp.; Location—abdominal cavity; Locality—India—Calcutta, W.B.; Burma; Annam; Siam. (111)

835. **D. reconditum** (Grassi, 1889) Yorke and Maplestone, 1926.

Syn. *Filaria recondita* Grassi, 1889; *Acanthocheilonema reconditum* Railliet, Henry and Langeron, 1912; *Dirofilaria recondita* Neumann and Mayer, 1914.

Host—*Canis* sp. (=dog), *Pulex serraticeps*; Location—peritoneal fatty tissue; Locality—India—Calcutta, W.B.; Tamil Nadu; Punjab; Italy; Baluchistan. (175)

836. **Deraiphoronema evansi** (Lewis, 1882).

Syn. *Dipetalonema evansi* (Lewis, 1882) Yorke and Maplestone, 1926; *Filaria evansi* Lewis, 1882; *Microfilaria camelensis* Balfour, 1911; *Filaria haematica cameli* Pricolo, 1913; *Deraiphoronema cameli* Romanovitch, 1916; *Microfilaria evansi* Yakimoff et al, 1916; *Acanthocheilonema evansi* Baylis and Daubney, 1923.

Host—*Camelus bactrianus* (=camel), *Equus* sp. (=horse); Location—arteries and mesentry; Locality—India—Punjab; Pakistan—Dera Ismail Khan; Africa; Russia. (250)

837. **Wuchereria bancrofti** (Cobbold, 1877) Seurat, 1921.

Syn. *Filaria bancrofti* Cobbold, 1877; *F. wuchereria* dos Santos, 1877; *F. wuchereria* da Silva Lima, 1877; *Wuchereria filaria* da Silva Araingo, 1877; *Filaria sanguinis hominis nocturna* Manson, 1891; *F. demarquavi* Zune, 1892; not Manson, 1897; *F. powelli* Penel, 1905; *Microfilaria nocturna* Shipley and Fearnside, 1906; *Filaria philippinensis* Ashbourn and Craig, 1906; *Microfilaria bancrofti* Manson, 1907; *M. philippinensis* Ashbourn and Craig, 1909; ? *M. powelli* Castellani and Chalmers, 1910.

Host—Man; Location—Glands of the lymphatic system and also in various internal organs; Locality—India—Bihar; Punjab; Orissa; Travancore; Trivandrum; Pakistan—Sind; Sri Lanka and almost all tropical and sub-tropical countries of the world. (125)

* Transferred to *Monnigofilaria*—Yeh, 1957.

838. **Brugia (Brugiella) buckleyi** Dissanaïke and Paramanathan, 1961.

Host—*Lepus nigricollis singhala*; Location—heart and blood vessels; Locality—Sri Lanka. (144)

839. **B. ceylonensis** Jayewardene, 1962.

Host—Dog; Locality—Sri Lanka. (202)

Subfamily DIROFILARIINAE Wehr, 1935.

840. **Dirofilaria immitis** (Leidy, 1856) Railliet and Henry, 1911.

Syn. *Filaria immitis* Leidy, 1856; *F. papillosa haematica* Schneider, 1866; *F. haematica* Leuckart, 1867; *F. sanguinis* Cobbold, 1869; *Spiroptera immitis* Ercolani, 1875; *Microfilaria immitis* Neumann and Mayer, 1914; (T) *Dirofilaria indica* Chakravarty, 1936.

Host—*Canis* sp. (=dog), *Felis* sp. (=cat), *Ondatra zibethica*, *Vulpes* sp. (=fox), *Zalophus californicus*; Location—bronchi, pulmonary arteries, right ventricle, thoracic cavity; Locality—India—Delhi; Orissa; Burma; Sri Lanka; Cosmopolitan. (245)

841. **D. repens** Railliet and Henry, 1911.

Syn. *Filaria repens* Mernil, 1913; *F. (Dirofilaria) acutiuscula* of Monnig, 1934, or of Neveu-Lemaire, 1936, not Molin, 1858; ? *Microfilaria ochmanni* Geddoelst, 1911.

Host—*Canis* sp. (=dog), Man, *Vulpes* sp. (=fox); Location—Subcutaneous connective tissue; Locality—India—Calcutta, W.B.; Patna, Bihar; Sri Lanka—Colombo; Cosmopolitan. (364)

842. **Loa inquirenda** Maplestone, 1938.

Host—Man; Location—eyes, skin of neck; Locality—India—Bombay, Maharashtra; Rajasthan. (295)

Subfamily ONCOCERCINAE Yamaguti, 1961.

843. **Oncocerca armillata** Railliet and Henry, 1909.

Host—*Bos* spp. (=cattle, ox, zebu), *Bubalus bubalis* (=Buffalo); Location—under the lining of aorta; Locality—India—Tamil Nadu; Orissa; Mukteswar, U.P.; Burma; Egypt; Sri Lanka; China; Palestine; Sudan. (358)

844. **O. gibsoni** (Cleland and Johnston, 1910) Cleland and Johnston, 1910.

Syn. *Filaria gibsoni* Cleland and Johnston, 1910; *F. onchocerca gibsoni* Cleland and Johnston, 1910; *Onchocera indica* Sweet, 1915.

Host—*Bos* sp. (=cattle), *Bubalus bubalis* (=Buffalo), *Camelus* sp. (=camel), *Ovis* sp. (=sheep); Location—subcutaneous and inner muscular connective tissue; Locality—India—Tamil Nadu; Punjab; U.P.; M.P.; America; Australia; Africa; Egypt, Europe; Java; Sumatra. (122)

845. **O. fasciata** Railliet and Henry, 1910.

Host—*Camelus dromedarius*; Location—Subcutaneous nodules under skin of head; Locality—India—Punjab; Africa; Australia. (363)

846. **O. lienalis** (Stiles, 1892) Gedoelst, 1911.

Syn. *Filaria lienalis* Stiles, 1892; *Onchocerca gutturosa* Neumann, 1910; *O. bovis* Pieltre, 1912.

Host—*Bos* spp. (=cattle, ox); Location—connective tissue between stomach and spleen; Locality—India—Punjab; U.P.; U.S.A. (491)

847. **O. reticulata** Diesing, 1841.

Syn. *Trichina reticulata equicaballi* Diesing in Hermann, 1841; *Filaria reticulata* Diesing, 1851; *Spiroptera cincinnata* Ercolani, 1866; *Filaria cincinnata* Zurn, 1882; *Spiroptera reticulata* Railliet, 1885; *Onchocerca cervicalis* Railliet and Henry, 1910.

Host—Equines—donkey, horse, mule; Location—tendons; Locality—India; Alfort; Europe; Puerto Rico. (537)

848. **Elaeophora poeli** Vryburg, 1897.

Syn. *Filaria haemophila* Linstow, 1903.

Host—*Bos* sp. (=ox), *Bubalus bubalis* (=Buffalo); Locality—India; Indonesia; Malaya; Philippines; Belgian Congo. (537)

Subfamily SPLENDIDOFILARIINAE Chabaud and Choquet, 1953.

849. **Micipsella indica** Rao, 1938.

Host—*Lepus nigricollis*; Locality—India. (375)

850. **Protofilaria furcata** Chandler, 1929.

Host—*Lemur ruber*; Location—thoracic cavity; Locality—India—Calcutta Zoo, W.B. (host from Madagascar). (111)

Family STEPHANOFILARIIDAE Wehr, 1935.

851. **Stephanofilaria andamani** Sinha and Das, 1958.

Host—*Bubalus* sp. (=Buffaloes); Location—skin; Locality—India—Andamans. (460)

852. **S. assamensis** Pande, 1936.

Host—*Bos* sp. (=cattle), *Bubalus* sp. (=Buffalo); Location—Hump sore; Locality—India—Assam; Cuttack, Orissa; Indonesia (338)

853. **S. zaheeri** Singh, 1958.

Host—*Bubalus* sp. (=Buffalo); Location—skin of the ear; Locality—India—Hyderabad, A.P. (453)

Order PHILOMETRIDEA Yamaguti, 1961.

Family DRANCUNCULIDAE Leiper, 1912.

854. **Dracunculus medinensis** (Linnaeus, 1758) Gallandat, 1773.

Syn. *Gordius medinensis* Linnaeus, 1758; *Vena medinensis* Gallandat, 1773; *Dracunculus graecorum* Grunier, 1777; *Filaria medinensis* Gmelin, 1790; *Furia vena medinensis* Modeer, 1795; *Filaria tropica* Rudolphi, 1809; *Vermis*

medinensis Diesing, 1851; *Filaria aethiopica* Valenciennes, 1856; *Dracunculus aethiopicus* Diesing, 1861; *Filaria guineensis* Dunlison, 1893; *Vermiculus capillaris* Dunlison, 1895; *Microfilaria medinensis* Neumann and Mayer, 1914; *Fullebornius medinensis* Faust, 1929.

Host—Man, Arabian baboon, *Bos* sp. (=ox), *Canis* sp. (=domestic dog), *C. aureus* (=jackal), *C. lupus* (=wolf), *Capra* sp. (=goat), *Equus* sp. (=horse), *Gazella bennetti* (=Indian gazelle), *Ovis* sp. (=sheep), *Panthera pardus* (=Leopard), *Acinonyx jubatus* (=Cheetah) and also in *Naja tripudians* (See Reptiles); Locality—India—Andaman; Assam; Hyderabad, A.P.; Bombay, Maharashtra; Tamil Nadu; Karnataka; Burma; Africa; Asia; Europe; N. and S. America. (253)

NEMATODES OF INVERTEBRATES

Order CEPHALOBIFORMES Kloss, 1960.

Family CEPHALOBIIDAE Travassos and Kloss, 1960.

Subfamily CEPHALOBIIINAE Artigas, 1929.

855. **Cephalobium microvata** Rao and Rao, 1965.

Host—*Gryllus* sp.; Location—rectum; Locality—India—Hyderabad, A.P. (378)

Order RHIGONEMATIFORMES Kloss, 1960.

Family RHIGONEMATIDAE (Artigas, 1930) Chitwood, 1935.

Subfamily RHIGONEMATINAE (Artigas, 1930) Chitwood, 1935.

856. **Dudekemia neyrae** (Singh, 1955) Travassos and Kloss, 1960.

Syn. (T) *Rhigonema neyrae* Singh, 1955; *Dudekemia subtruncatum* (Dollfus, 1952) Rao, 1959.

Host—*Thyroglutus malayus*, *Spirostreptus* sp.; Location—rectum and intestine; Locality—India—Hyderabad, A.P.; Lucknow, U.P. (442)

(N)*857. **Ruizia** sp.

Host—*Xenobolus cornifex*, *Thyropygus* sp.; Location—hind gut; Locality—India—Howrah, W. B.

Order OXYURIDEA Wienland, 1958

Family CARNOYIDAE Filipjev, 1934.

Subfamily CARNOYINAE Filipjev, 1934.

858. **Rondonema spinifera** Rao, 1958.

Syn. *Raonema spinifera* (Rao, 1958) Kloss, 1965.

Host—*Rhisida longipes*; Location—intestine; Locality—India—Hyderabad, A.P. (376)

* Chaturvedi (1970) collected the specimens which form the first record of the genus from India.

859. **R. spirostreptum** Rao and M. Menakumari, 1967.
Host—*Spirostreptus* sp.; Location—intestine; Locality—India—Hyderabad, A.P. (382)
- Family THELASTOMATIDAE Travassos, 1929.
Subfamily THELASTOMATINAE Travassos, 1929.
860. **Thelastoma indica** Rao, 1958.
Host—*Spirostreptus* sp.; Location—intestine; Locality—India—Hyderabad, A.P. (376)
861. **T. ornata** Singh, 1955.
Host—*Thyroglutus malayus*; Location—rectum; Locality—India—Lucknow, U.P. (442)
862. **Protrellus phyllodromi** (Basir, 1942) Basir, 1956.
Syn. *Protrellina phyllodromi* Basir, 1942.
Host—*Phyllodromia humbertiana*; Location—intestine (rectum); Locality—India—Aligarh, U.P. (44)
863. **Cephalobellus brevicaudatum** (Leidy, 1851) Christie, 1933.
Syn. *Thelastoma brevicaudatum* Leidy, 1853; *Aorurus (Thelastoma) brevicaudatus* (Leidy, 1851) Walton, 1927; *Scarabanema brevicaudatum* (Leidy, 1851) Christie, 1931; *Thelastoma indiana* Basir, 1940; *Cephalobellus lloydi* Baylis, 1946.
Host—*Ligyrodesrelictus* (Larva), *Leucophaea* sp., *Tipula peliostigma* (Larva), *T. oleracea* (Larva); Location—intestine; Locality—India—Aligarh, U.P.; U.K.—England; U.S.A.—Philadelphia. (244)
864. **Psilocephala psilocephala** Rao, 1958.
Host—*Gryllotalpa africana*; Location—intestine; Locality—India—Hyderabad, A.P. (376)
- (N)865. **Schwenkiella icemi** (Schwenk, 1926) Basir, 1956.
Syn. *Bulhoesia icemi* Schwenk, 1926; *Thelastoma aligarhica* Basir, 1940; *T. icemi* (Schwenk, 1926) Travassos, 1929; **Bulhoesia thapari* Singh, 1955.
Host—*Periplaneta americana*, *P. brunneau*, *Barata selvagem*; Location—rectum and intestine; Locality—India—Aligarh, U.P.; Calcutta W.B.; Hyderabad, A.P.; Lucknow, U.P.; Brazil; U.S.A. (431)
866. **S. indica** Rao and Rao, 1966.
Host—*Corydia* sp.; Location—intestine; Locality—India—Hyderabad, A.P. (381a)
867. **S. longicaudata** (Meyer, 1896) Basir, 1956.
Syn. "*Oxyuris*" *longicaudata* Meyer, 1896; *Thelastomum longicaudatum* (Meyer, 1896) Skrjabin, 1923; *Aorurus (Streptosoma) longicaudata* (Meyer, 1896) Walton, 1927; *Thelastoma longicaudata* (Meyer, 1896) Travassos, 1929.
Host—*Julus* sp.; Location—intestine; Locality—India—Sri Lanka. (303)

* Synonymy proposed by Soota and Chaturvedi (1970).

- (N)868. **Hammerschmidtella diesingi** (Hammerschmidt, 1838) Chitwood, 1932.

Syn. *Oxyuris diesingi* Hammerschmidt, 1838; *O. blattae orientalis* Hammer., 1847; *Streptostomum gracile* Leidy, 1850; *Anguillula macrura* Diesing, 1851; *Aorurus diesingi* (Hammer., 1838) Travassos, 1929; *A. (Streptosoma) diesingi* (Hammer., 1838) Walton, 1927; *A. (S.) blattae—orientalis* (Hammer., 1847) Walton, 1927; **Leidynemella periplaneticolae* Singh and Singh, 1955.

Host—*Periplaneta americana*, *Blatta orientalis*; Location—rectum; Locality—India—Aligarh, U.P.; Calcutta, W.B.; Hyderabad, A.P.; Lucknow, U.P.; Europe; U.S.S.R.; N. and S. America. (47)

869. **H. manohari** Rao, 1958.

Host—*Spirostreptus* sp.; Location—intestine; Locality—India—Hyderabad, A.P. (376)

870. **H. aspiculus** Biswas and Chakravarty, 1963.

Host—*Periplaneta americana*; Location—rectum; Locality—India—Barasat, near Calcutta, W.B. (80)

871. **H. singhi** Rao and Rao, 1965.

Host—*Corydia* sp.; Location—intestine; Locality—India—Hyderabad, A.P. (381)

872. **Blattellicola blattellicola** Basir, 1940.

Host—*Blattella germanica*; Location—intestine; Locality—India—Aligarh, U.P. (42)

873. **Blatticola blattae** (Graeffe, 1860) Chitwood, 1932.

Syn. *Oxyuris blattae* Graeffe, 1860; *O. blatticola* Galeb, 1878; *Blatticola blatticola* (Galeb, 1878) Schwenk, 1926.

Host—*Blatta aegyptiaca*, *Blattella germanica*, *Ectobia lapponica*, *E. livida*; Location—rectum; Locality—India—Europe; America (N. and S.); U.S.S.R. (47)

874. **B. supellaimae** Rao and Rao, 1965.

Host—*Supellaima* sp.; Location—rectum; Locality—India—Hyderabad, A.P. (380)

875. **Blattophila suppelaima** Basir, 1941.

Host—*Supella supelloctillum*; Location—intestine and rectum; Locality—India—Aligarh, U.P.; Hyderabad, A.P. (43)

876. **B. indica** Rao and Rao, 1965.

Host—*Corydia* sp.; Location—rectum; Locality—India—Hyderabad, A.P. (379)

877. **Coronostoma singhi** Rao, 1958.

Host—*Spirostreptus* sp.; Location—intestine; Locality—India—Hyderabad, A.P. (376)

* Synonymy proposed by Soota and Chaturvedi (1971).

878. **Binema gryllotalpae** (Singh and Singh, 1955) n. comb.
 Syn. *Gryllocola gryllotalpae* Singh and Singh, 1955.
 Host—*Gryllotalpa africana*; Location—rectum; Locality—India—Lucknow, U.P. (447)
879. **B. indicus** (Singh and Singh, 1955) n. comb.
 Syn. *Gryllocola indicus* Singh and Singh, 1955.
 Host—*G. africana*; Location—rectum; Locality—India—Lucknow, U.P. (447)
880. **B. korsakowi** (Sergiev, 1923) Basir, 1956.
 Syn. *Oxyuris korsakowi* Sergiev, 1923; *Binema binema* Travassos, 1925; *G. gryllocola* Basir, 1942; *B. (Binema) hispana* Serrano Sanchez, 1947; *B. (B.) medinae* Serrano Sanchez, 1947; *B. (B.) binema* (Travassos, 1925) Serrano Sanchez, 1947.
 Host—*G. africana*, *G. europeus*, *G. vulgaris*, *Neocurtilla hexadactyla*; Location—intestine; Locality—India—Aligarh, U.P.; Hyderabad, A.P.; Brazil; Spain; U.S.S.R. (47)
881. **B. mirzaia** (Basir, 1942) Basir, 1956.
 Syn. *Periplaneticola mirzaia* Basir, 1940; *P. periplaneticola* Basir, 1942.
 Host—*G. africana*, *Periplaneta americana*; Location—intestine; Locality—India—Aligarh, U.P.; Hyderabad, A.P. (44)
882. **B. ornata** Travassos, 1925.
 Syn. *Talpicola talpicola* Basir, 1942; *B. (O.) ornata* (Travassos, 1925) Serrano Sanchez, 1947; *B. (O.) techae* Serrano Sanchez, 1947; *B. (O.) carmeloi* Serrano Sanchez, 1947.
 Host—*G. africana*, *G. europeus*, *Neocurtilla hexadactyla*; Location—intestine and rectum; Locality—India—Hyderabad, A.P.; Aligarh and Lucknow, U.P.; Brazil; Spain. (47)
883. **Isobinema flagellocerca** Rao, 1958.
 Host—*G. africana*; Location—intestine; Locality—India—Hyderabad, A.P. (376)
884. **Gryllophila skrjabini** (Sergiev, 1923) Basir, 1956.
 Syn. *Thelastomum skrjabini* Sergiev, 1923; *G. gryllophila* Basir, 1942; *Neyraiella neyrae* Serrano Sanchez, 1947.
 Host—*G. africana*, *G. europeus*, *G. vulgaris*; Location—intestine (rectum); Locality—India—Aligarh, U.P.; Hyderabad, A.P.; Spain; U.S.S.R. (47)
885. **G. khehariae** Singh and Singh, 1955.
 Host—*G. africana*; Location—rectum; Locality—India—Lucknow, U.P. (447)
886. **Leidynema stylopygi** Biswas and Chakravorty, 1963.
 Host—*Stylopyga* sp.; Location—rectum; Locality—India—Barasat, near Calcutta, W.B. (80)

887. **L. appendiculata** (Leidy, 1850) Chitwood, 1932.
Host—*Blatta orientalis*; Location—rectum; Locality—India—Hyderabad, A.P. (47)
888. **Pseudonymous hydrophili** (Galeb, 1878) Stiles and Hassall, 1905.
Syn. *Oxyuris (Helicotherix) hydrophili* Galeb, 1878; *G. galebiella* Basir, 1941.
Host—*Hydrophilus triangularis*, *H. piceus*, *Tropisternus nimbatus*; Location—intestine (rectum); Locality—India—Aligarh, U.P.; Hyderabad, A.P. (47)
889. **P. islamabadi** (Basir, 1941) Basir, 1956.
Syn. *Galebiella islamabadi* Basir, 1941.
Host—*Hydrophilus piceus*; Location—intestine; Locality—Pakistan—Islamabad. (47)
890. **Travassosinema travassosi** Rao, 1958.
Host—*Spirostreptus* sp.; Location—intestine; Locality—India—Hyderabad, A.P. (376)
891. **Indiana gryllotalpae** Chakravarty, 1943.
Host—*Gryllotalpa africana*; Location—intestine; Locality—India—Hyderabad, A.P.; Calcutta, W.B. (97)
892. **Corydiella corydi** Rao and Rao, 1965.
Host—*Corydia* sp.; Location—intestine; Locality—India—Hyderabad, A.P. (377)
893. **Cameronia biovata** Basir, 1948.
Host—*Gryllotalpa africana*; Location—intestine (rectum); Locality—India—Aligarh, U.P.; Hyderabad, A.P. (46)
894. **Blatelicoloides blatti** Farooqi, 1966.
Host—*Blatella germanica*; Location—intestine; Locality—India—Aurangabad, Maharashtra. (151a)
895. **Basirella bengalensis** Biswas and Chakravorty, 1963.
Host—*Gryllotalpa africana*; Location—rectum; Locality—India—Dum Dum, near Calcutta, W.B. (80)
896. **Chitwoodiella ovofilamenta** Basir, 1948.
Host—*Gryllotalpa africana*; Location—intestine; Locality—India—Aligarh, U.P.; Hyderabad, A.P. (45)
897. **C. thapari** Travassos, 1953.
Host—*Scapteriscus vicinus*; Location—stomach; Locality—India; West Indies. (47)

898. **Mirzaiella asiatica** Basir, 1942.
Host—*Gryllotalpa africana*; Location—intestine; Locality—India—Aligarh, U.P.; Hyderabad, A.P. (44)
899. **Singhiella singhi** Rao, 1958.
Host—*G. africana*; Location—intestine; Locality—India—Hyderabad, A.P. (376)
900. **Pteronemella macropapillata** Rao, 1958.
Host—*G. africana*; Location—intestine; Locality—India—Hyderabad, A.P. (376)
901. **Mermis indica** Linstow, 1898.
Host—*Papilo helenus*; Locality—India. (431a)
902. **Mermis** sp.
Host—*Anoplules minimus*, *A. pseudjamesi*, *A. varuna*, *A. hyracanus*, *A. sinensis*, *A. barbirostris*, *A. fuliginosus*, *A. philippinensis*, *A. tessellatus*, *A. subpictus*; Locality—India—Bengal. (59)
- (T)903. **Linstowiella basiri** Soota and Chaturvedi, 1970.
Host—insect (undetermined); Location—intestine; Locality—India—Kerala. (481)
904. **Urolabes parasitica** Carter, 1859.
Host—*Nais albida*; Location—peritoneal cavity; Locality—India Bombay, Maharashtra. (88a)
905. **Scolecophilus lumbricicola** Baylis and Daubney, 1922.
Host—*Perionyx macintoshi*; Location—body cavity; Locality—India—Nepal Valley. (62)
906. **Synoeconema heplochaetellae** Baylis, 1943.
Host—*Hoplochaetella anomala*; Location—coelomic cavity of anterior segments; Locality—India—Karnataka, South bank of Saraswati River, Jog falls. (60a)
907. **S. drawida** Baylis, 1943.
Host—*Drawida* sp.; Location—coelomic cavity of anterior segments; Locality—India—Srivaikuntam, Tinnevely Dist., Sagar—Karnataka. (60a)
908. **S. perionychis** Baylis, 1943.
Host—*Perionyx* sp.; Location—coelomic cavity of anterior segments; Locality—India—Dumpep, Khasi Hills, Khezhahama, Naga Hills, Assam. (60a)
909. **S. pheretimae** Baylis, 1943.
Host—*Pheretima procera*; Location—coelomic cavity of anterior segments; Locality—India; Singapore. (60a)

910. **Peredira alata** Baylis, 1943.

Host—*Hoplochaetella anomala*; *Drawida* sp.; Location—coelomic cavity of anterior segments; Locality—India—South bank of Saraswati River, Jog falls, Karnataka; Bahabuttan Hills between Kemmangundi and Kalhatta giri. (60a)

911. **Creagrocercus barhatus** Baylis, 1943.

Host—*Moniligaster gravelvi*; Location—coelomic cavity of anterior segments; Locality—India—Kavalai, Cochin, Tamil Nadu. (60a)

912. **Scolecophiloides gatesi** Baylis, 1943.

Host—*Perionix* sp.; Location—coelomic cavity of anterior segments, apparently burrowing of tissues; Locality—India—Dumpep, Khasi Hills, Assam. (60a)

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