



# BIBLIOGRAPHY OF INDIAN ZOOLOGY

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**BIBLIOGRAPHY OF INDIAN ZOOLOGY  
FOR THE YEAR 1962**

*Compiled by*  
**KOSHY MATHEW AND M. L. DE**

## CONTENTS

	<i>Page</i>
I. Brief Review for 1962 .. .. .	1
II. Bibliography of Indian Zoology for the year 1962 .. .. .	7
III. List of New Taxa .. .. .	103
IV. Subject Index .. .. .	110

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## I. BRIEF REVIEW FOR 1962

### INTRODUCTION

The following is a compilation of scientific literature published in India and abroad on Indian fauna during the year 1962. About 1827 references are listed here, prefaced by a brief review which will indicate the main trends of zoological research in India. It is intended primarily as a guide to the work which has been done in this region. As in earlier years, the bibliography is followed by a subject index, and a list of new taxa such as families, genera, species, etc., in the fauna of the Indian region. The review contains 13 sections as follows:

- |                            |                   |
|----------------------------|-------------------|
| 1. General                 | 10. Mollusca      |
| 2. Protozoa                | 11. Arthropoda    |
| 3. Porifera                | (a) Crustacea     |
| 4. Cnidaria (Coelenterata) | (b) Myriapoda     |
| 5. Platyhelminthes         | (c) Arachnida     |
| (a) Trematoda              | (d) Insecta       |
| (b) Cestoda                | 12. Echinodermata |
| 6. Aschelminthes           | 13. Chordata      |
| (a) Rotifera               | (a) Pisces        |
| (b) Nematoda               | (b) Amphibia      |
| 7. Acanthocephala          | (c) Reptilia      |
| 8. Annelida                | (d) Aves          |
| 9. Echiuroidea             | (e) Mammalia      |

#### 1. GENERAL

Balasubrahmanyam has studied the phosphate content in the bottom muds in four stations in Vellar estuary. Dharmakumarshinji has dealt with wild life conservation in India. Ganapati and Rao have made an ecological study of the interstitial fauna inhabiting the sandy beaches of Waltair coast. Gee has dealt with the management of India's wild life sanctuaries and national parks. Guha has given an account of life at the molecular level. T. S. S. Rao and Chalapati Rao have studied the diurnal variations in the hydrobiological conditions off Waltair coast. Sagreiya has given a popular description of common wild animals and birds that were found in Madhya Pradesh a few centuries ago. Sen and Sankhla have studied the ecology of Rajasthan and have described the faunistic composition (mammals, birds and reptiles) and characteristic of three main zones of the State.

#### 2. PROTOZOA

Many new parasitic protozoa are described during the year under review. Abraham has described two new species of *Giardia* and three new species of *Balantidium*

parasitic in Indian mammals, while Bhandary has described three new species of *Blepharisma*. Banik and Ray have described new coccidium *Isospora bellericae* from the crane *Bellaria regulorum*; R. N. Das and Uttangi have described a new gregarine *Sphaerocystis termitis* from the termite *Capritermes incola*; Ganapati *et al.*, have described a new cephaline gregarine *Stenophora thyroglyti*; Janakidevi has given the morphological description of three new parasitic protozoa, *Monocercomonoides filamentum*, *Retortamonas cheloni* and *Proteromonas uromastixi*. Qadri has created a new genus *Phlogospora* and has described a new species, *P. mysti*. Rajasekarasetty and Kasturibai have described a new ciliate *Gastrostyla hebbalica*. Rasheed has presented a detailed study of the arenaceous and calcareous porcellaneous foraminifera from Cullygoody; 28 foraminiferal species belonging to sixteen genera and ten families were described of which three species are new. G. Subramanian and Singh have described a new species of *Trypanosoma* from the black throated gay, *Garrulus lanceolatus*. Uttangi has described seven new species of *Holomastigotoides* from Indian termites while Uttangi and Desai have described three new species of gregarines from the termite *Speculitermes cyclops sinhalensis*.

D. K. Banerjee and Chatterjea have studied the effect of gibberic acid on the growth of *Euglena gracilis*. J. Chakraborty and Dasgupta have made some investigations into the mitotic cycle of the kala-azar parasite *Leishmania donovani*. M. M. Chakravarty *et al.* have conducted cytochemical tests for DNA and RNA on the spores of three species of myxosporidians, *Myxobolus bengalensis*, *Myxobolus catlae* and *Thelohanellus catlae*. G. P. Datta has investigated the cytoplasmic inclusions of *Paramecium caudatum*, *Colpoda cucullus* and *Amoeba* sp. and has discussed the homology of the contractile vacuole complex of Protozoa to the Golgi apparatus and has shown that the contractile vacuole or their feeding canals have no relation to Golgi apparatus. Ganapati and Sarojini have given an account of the ecology of foraminifera off Visakhapatnam coast. Seshachar and Bhandary have made some observations on the life cycle of a new race of *Blepharisma undulans*. Vishwanath, Datta and Dhillon have studied the cell inclusions of the trophic and cyst forms of the colourless euglenoid flagellate, *Khavkinea* sp.

#### 3. PORIFERA

B. Ganguly has studied the contact mechanism of amoeboid sponge cells under the stress of different pH.

#### 4. CNIDARIA (COELENTERATA)

Brahma and Basu have made some radioautographic observations on the body wall of *Hydra*. S. Mookerjee

has studied dual capacity of differentiation of the middle piece in *Hydra*, while Mookerjee and Sanyal have worked out the axial distribution and relative frequency of epitheliomuscular, interstitial and cnidoblast cells in the ectoderm of *Hydra*; the findings are discussed in relation to their functional and morphogenetic significance. Sanyal has made some observations on the cellular source in hydroid regeneration.

## 5. PLATYHELMINTHES

### (a) TREMATODA

S. Arora *et al.* have studied the intraspecific variations in *Paradistomum orientalis* while Bhardwaj has studied intraspecific variations in *Tremiorchis ranarum* and has discussed the causes and effects of intraspecific variations. Baugh has described two new species of *Philophthalmus*. Ganapati *et al.* have created a new genus *Labriferoideis* and have described a new allocereadioid metacercaria from the wood-boring pelecypod, *Martesia striata*. R. Gupta has made a study on trematode parasites of Indian birds and has described one new species of *Stephanoprora*, two new species of *Schwartzitrema* and two new species of *Tylodelphys*. S. L. Jain has described three new species of *Dactylogyrus*; Malaki and Singh have described two new species, *Cercaria nautuchiensis* and *C. bhimtalensis*; R. K. Mehra has described two new species of *Tylodelphys* from the Indian snake bird, *Anhinga melanogaster*. D. Nath has briefly reviewed on the trematode genus *Prosthogonimus* and has given illustrated account of *P. putschkowskii*. Nath and Pandey have described a new species *Paramonostomum harwoodi*; Rai has described three new species of *Allocreadium* from the intestine of *Barbus tor*, one new species of *Echinoparyphium* and two new species of *Tremiorchis*. Simha has erected a new subfamily Singhiatreminae. K. S. Singh has described nine new trematode species from birds. C. B. Srivastava has erected a new genus *Rhynchocreadium* and has described a new species *R. aculeatum* and another new species *Pycnadena komiyai*. Unnithan has erected a new family, three new subfamilies and has described five new species. S. C. Dutt and Srivastava have studied the morphology and life history of the mammalian blood fluke *Orientobilharzia dattai*. J. N. Saksena has made some observations on the chromosomes in the digenetic trematodes of the family Paramphistomatidae.

### (b) CESTODA

Johri has described a new avian cestode belonging to the subfamily Hymenolepidinae; K. S. Singh has erected a new genus *Ivritaenia* and has described a new species of this genus, and two new species of *Ophryocotyloides*; while Singh and Tandon have described a new avian cestode *Dilepis kumaunensis*. S. C. Dutt and Mehra have given an account of the life-history of *Hymenolepis farciminosus*.

## 6. ASCHELMINTHES

### (a) ROTIFERA

H. C. Arora has given an account of the morphology and bionomics of a small collection of illoricate rotifers from Nagpur and has described a new species and a new variety.

### (b) NEMATODA

Akhtar has erected a new genus of soil inhabiting nematode, *Paracephalobus* and has described two new species *P. litoralis* and *Metaphelenchus sacchari*. G. K. Chakravarty and Majumdar have described two new nematode parasites from bird and fish; Jairajpuri has described a new soil nematode, *Boleodorus indicus*; M. R. Siddiqi has described a new species of *Trichodorus* and three new species of *Longidorus*; Jayewardene has described a new filarial parasite *Brugia ceylonensis*; K. S. Singh has described three new species of *Diplotrinaena* from birds; Sultan has described a new species of *Tetrameres*, three new species of *Microtetrameres*, three new species of *Chandlerella* and two new species of *Splendidofilaria*, while Timm has described six new species of marine nematodes of the family Linhomoeidae from the Arabian Sea at Karachi. Kannan has discussed the host-parasitic relationship of the root-knot nematode with reference to the host nutrition.

## 7. ACANTHOCEPHALA

M. N. Datta and Soota have given the morphological description of two new species of *Filisoma* from the fish *Scatophagus argus*.

## 8. ANNELIDA

Gates has given a taxonomic account of the family Moniligastridae and has described a new species *Drawida victoriana* from Burma. Rangarajan and Mahadevan have described a new species of polychaeta, *Nothria mannarensis* of the family Onuphidae. Kamat has studied the distribution of ascorbic acid in the cells of earthworms.

## 9. ECHIUROIDEA

P. K. B. Menon and Dutta Gupta have described a new species of *Ikedosoma*.

## 10. MOLLUSCA

K. C. Ghose has studied the morphogenesis of the shell gland, lung, mantle, mantle cavity, statocyst, eye and nervous system, origin and development of the digestive system, the cleavage, gastrulation and germ layer formation in the giant land snail, *Achatina fulica*. Nagabhushanam has described the biology of marine wood-boring mollusc and the development of primary gonad and

sexual phases in *Martesia striata*, while Srinivasan has given an account of the anatomy of *Martesia fragilis*.

## 11. ARTHROPODA

### (a) CRUSTACEA

A. Daniel has described a new species of operculate barnacle from the gastropod *Murex* sp. from Porto Novo. Arudpragasm and Costa have made a faunistic study of Atyidae of Ceylon and have described a new species and a new sub-species. K. Balasubrahmanyan has described two new species of *Apseudes*, determined the grade analysis of the substratum and has studied the salinity tolerance of these forms. A good number of new copepods are described by various workers. H. V. Desai and Krishnaswamy have described a new species of monstrolloid copepod from the Bombay plankton; Padmanabha Rao has created a new genus *Asterocomes* and has described a new species; N. K. Pillai has created a new genus, *Choniomyzon* and has described eleven new species; Reddiah has described a new copepod, *Ostrincola portonoviensis* from commercial bivalves at Porto Novo; Tripathi has described three new species of *Clavellisa* and one each of *Brachiella*, *Naobranchia* and *Thysanote* from the marine fishes and Ummerkutty has described eleven new species of cyclopoids and a key to the identification of various known species is provided for the genus *Asteropontius*. K. K. Tiwari has described three new species of conchostraca. Sankarankutty has created a new genus *Pseudoporcellanella* of Porcellanidae and has described a new species. He has also described 29 species and a variety of Brachyura of the Andaman and Nicobar Islands of which 8 species and a variety are new records for the locality, and has given the distribution of 36 species of crabs collected from the Laccadive Archipelago. Sankolli has described a new species of hermit crab, *Pagurus kulkarnii*. Ganapati and Prasad Rao have studied the temperature characteristics of respiratory movements in *Balanus communis*. Ganapati and Shanthakumari have recorded 32 families comprising 48 genera and 109 species of copepods from the inshore waters off Waltair coast and have made an attempt to correlate the distribution of planktonic copepods in the inshore waters with the currents, salinity, temperature and diatom cycles. S. Krishnaswamy has studied respiration of the commensal copepod, *Notodelphys allmani*. Madanmohan Rao and K. P. Rao have made a comparative study of the metabolic response to salinity stress of a marine crustacean (*Lepas anserifera*) with that of a brackish water crustacean (*Sesarma plicatum*). M. J. George has given the anatomical description of respiratory, excretory and blood vascular system, sense organs and internal skeleton of the crab *Neptunus sanguinolentus*. R. S. Pillai has described the respiratory, neurosecretory and excretory system of the shrimp, *Caridina laevis*.

C. B. Subrahmanyan has given an account of his investigation on the oxygen consumption of the immature forms of *Penaeus indicus* in relation to the body weight,

partial pressures of oxygen in the external medium and the minimum survival levels as regards oxygen content in water.

### (b) MYRIAPODA

Puttarudriah and Sastry have presented their observations on the general habits, behaviour, mating, oviposition etc., of *Ktenostreptus* sp., a millipede damaging crops in Mysore.

### (c) ARACHNIDA

Tikader has described a new species of *Oecobius*, two new species of the genera *Scotophaeus* and *Drassodes*, two new species of *Philodromus*. He has also described 26 species of spiders of which 14 are new species. A. P. Mathew has studied the changes that undergo during the growth of the embryo, the ovarian tubes and their diverticula and the renewal of the mucosa of the ovarian tubes of *Heterometrus scaber* while Sareen has studied the histochemistry of various cell inclusions during the vitellogenesis of scorpions, *Buthus hendersoni* and *B. macmahoni*. Krishnakumaran has described the structure of the cuticle from the intermoult stages of five arachnids, *Rhipicephalus*, *Thelyphonus*, *Argiope*, *Galeodes* and *Carcinoscorpius*. Hoogstraal and Varma have described two new species of Ixodidae, *Haemaphysalis cornupunctata* and *H. kashmirensis* while Mathai has described a new species of tick of the genus *Ixodes* parasitic on sheep. Nagar has made a faunistic survey of the ticks from Delhi state and has revised the genus *Hyalomma*. Das and Sen Gupta have given an account of the biology and control of the purple mite, *Calacarus carinatus*, a pest of tea in North India. Narayan has described the morphology, biology and ecology of the winter grain mite, *Pentaleus major*.

### (d) INSECTA

#### General

M. Z. Alam has presented a list of insect and mite pests of fruit and fruit trees in East Pakistan. Basu Chaudhuri has made some investigations on the insect pests of cashew plantations in Kerala. R. P. Chaudhuri has given a list of insect parasites of livestock and has given an account of their control. Desilva has listed the native parasites and predators of insect pests in Ceylon. Mani has written a book on insect life above the timber level in the north-west Himalayas. Mani and Singh have presented their observations on the geography of the high altitude insects of the nival zones from the north-west Himalayas. A. S. Srivastava and Singh have studied photo-tropic response of insect pests to different colours of light during different hours of night. Roonwal, Chatterjee and Thapa have presented the results of their entomological investigations on high girdling of salai in Sillari forest.

## Insect Orders

## (i) Collembola

G. L. Arora and Singh have described a new species of *Lepidiaphanus* from Kashmir, while Goto has described a new species of *Brachystomella*. D. K. Choudhuri has given the morphological description of *Onychiurus* sp.

## (ii) Odonata

K. C. Mathur has given a detailed account of the musculature of the head-capsule and mouth-parts of the adult of *Pantala flavescens*, while Sangal has described the morphology of the head-capsule and mouth-parts of *Crocothemis servilia servilia*.

## (iii) Orthoptera

Uvarov has created a new genus, *Catabothrus*, with new species *C. nilgiriensis*. Roonwal has discussed phase and non-phase polymorphism in the desert locust, *Schistocerca gregaria*. Basu-Chaudhuri has studied the oviposition behaviour of *Omocestus viridulus*. S. Pradhan and Peswani have published observations on various aspects of bionomics and ecology of *Hieroglyphus nigrorepletus* and have described its egg-pod, early stages of nymphs, field habits and control measures. R. Lal *et al.* have investigated the relative toxicity of nine insecticidal dusts against the first to fifth hopper stages and adults of *Locusta migratoria*.

## (iv) Dermaptera

Ramamurthy has described a new species, *Proreus longiforceps* (family Chelisochidae).

## (v) Isoptera

P. N. Chatterjee and Sen-Sarma have described a new species of *Odontotermes* from Burma. R. N. Mathur and Thapa have created two genera, *Microcapritermes* and *Ampoulitermes*, and have described two new species *M. pilosus* and *A. wynaadensis*. Roonwal has given an account of recent developments in termite systematics. He has also described the structure of the termitarium and fungus-combs of the termite *Odontotermes obesus* and discussed the association and function of fungus-combs and fungi with termites in general. Roonwal and Bose have given a fuller description of *Psamotermes rajasthanicus*; redescribed *Odontotermes bellahunisensis*, and described a new subspecies *O. bellahunisensis guptai* from Rajasthan. Roonwal and Chhotani have written a monograph on the Indian species of the termite genus *Coptotermes*. They have also described 14 new species and one new subspecies of termites from the Assam region. S. D. Gupta has described in detail the external morphology of the soldier, alate and worker castes of *Anacantotermes macrocephalus*, while Kushwaha has given an account of the chaetotaxy of the soldier, worker and alate castes of *Odontotermes obesus*. D. Mukerji and Chowdhuri have studied the developmental stages of *Odontotermes redemanni*. Vishnoi has described the musculature of *Odonto-*

*termes obesus*. Becker has made a faunistic study of termites in India from various places.

## (vi) Siphunculata

Kaneko has described two new sucking-lice, *Hoplopleura mitsuui* and *Enderleinellus nishimaru*, found on the northern palm squirrel from India.

## (vii) Hemiptera

M. G. R. Menon and Parshad have described a new heteropteran, *Rhinogaster sinuata*, from Delhi. Odhiambo has described a new species of Miridae, *Prodromus cochinnensis*, and Scudder has described a new species, *Pylorgus indicus*. Kumar has shown the value of genitalia for the determination of the relationship of the subfamilies of Reduviidae and has classified the endosomal sclerites. G. L. Arora has studied the morphology and musculature of the head and mouth-parts of *Idiocerus atkinsoni*. S. Chatterji *et al.*, have studied the effect of nine different beta radiation dosages on the eggs of *Dysdercus*. G. M. Das and S. C. Das have described the life-history of *Fiorinia theae* and have discussed control methods, while G. M. Das and Ganguli have given a list of coccoids attacking tea, with special reference to their distribution in north-east India, their habits and nature and extent of damage caused by them. A. K. Ghosh and Ray Chaudhuri have given an account of the bionomics and taxonomy of aphids from Assam. Livingstone has studied the incidence of the tingid species, *Cadmilos retarius*, on seven host-plants and has given a detailed description of the egg and immature stages with a classification of the cuticular structures and a key to the identification of the nymphal instars. Rastogi and Dutta Gupta have made some investigations on the pH and digestive enzymes of the red pumpkin bug, *Coridius janus* and on the distribution of enzymes and the pH concentration in the different parts of the alimentary canal and salivary glands of *Odontopus nigricornis*. T. Singh and Kulshrestha have studied ovulation and corpus luteum formation in *Begrada cruciferarum*.

## (viii) Thysanoptera

Bhatti has created a new genus, *Bathrips*, and has described four new species. Sakimura and Ananthakrishnan have studied the Indian species of the genus *Chaetana-photrips*.

## (ix) Lepidoptera

Kapur has described a new species, *Cteipolia lithophila* and has given notes on the geographical distribution and taxonomy of the species of the genus *Cteipolia*. Avasthy and Chaudhary have described the external morphology of the larvae of sugarcane moth borer *Raphimetopus ablutellus*. S. K. David and Venugopal have studied the life-history and habits of the leaf worm, *Nausinoe geometralis*. D. N. Ganguly and Basu have studied the cytoplasmic inclusions of the neurosecretory cells of the adult silk-worm *Bombyx mori*. Roonwal, Chatterjee and Thapa have given an account of the experiments done

on the control of *Lymantria mathura*. K. P. Srivastava has described the skeleto-muscular mechanism in *Papilio demoleus*.

#### (x) Diptera

Alexander has described 17 new species of crane-flies from the Himalayas. Grover has described six new species of gall midges; Mackerras has created a new subgenus and described two new species of the genus *Cydistomyia*, and Spencer has described six new species of Agromyzidae. Covell has dealt in detail with the distribution, breeding places, adult habits and relation to malaria of the anopheline mosquitoes of India and the Far East. Grant has studied the origin and differentiation of the imaginal indirect flight muscles of *Simulium ornatum*. Hati and Ghosh have studied the effect of gamma radiation on mosquitoes, while K. K. Nair has studied the effects of gamma radiation on housefly pupae. M.I.D. Sharma and Kalra made some observations on the ovidical action of organophosphorus compounds against *Culex fatigans*.

#### (xi) Siphonaptera

Krishnamurthy has conducted flea susceptibility tests in certain towns of the Punjab, Bihar and U.P. against D.D.T., B.H.C. and Dieldrin, while Mohan has conducted susceptibility tests with *Xenopsylla cheopis* and *X. astia*.

#### (xii) Hymenoptera

Benson has described two new species and a new subspecies of the genus *Athalia* and has discussed their phylogeny, dispersal and distribution in relation to host-plant associations. Hammer has described three new species of *Odontomutilla*, 20 of *Trogaspidia*, 13 of *Smicromyrme*, 3 of *Promecilla*, 2 of *Stenomutilla*, and one new subspecies each of *Pseudophotopsis continua* and *Odontomutilla familiaris*. Manson has created two new genera, *Kristotomus* and *Kerrichia*, and has described a new species *Kristotomus nathani*. Subba Rao and Bhatia have described a new species *Liodontomerus indicus*, while Subba Rao and Chacko have described three new species of *Hadrophanurus*. Narayanan and Chawla have given a list of parasites and predators of fruit-fly pests *Acanthophilus helianti*, *Anestrepha* spp., *Carpomyia vesuviana*, *Ceratitis capitata*, *Dacus* spp. and *Rhagoletis* spp., with notes on their bionomics, habits and distribution, while Narayanan *et al.* have catalogued the known species of the world of the subfamily Aphidiinae. S. Singh has given an account of bee-keeping in India.

#### (xiii) Coleoptera

Breuning has described a new species, *Egesina gilmouri*; Frey has described three new species of *Apogonia*, three new species of *Onthopagus* and one new species each of *Cephaloserica* and *Leucoserica*. Kapur has given an illustrated account of the geographical variation in the colour-patterns of *Coccinella septempunctata*, *C. transversalis* and *Coelophora bissellata*. Kapur and Rao have described a new species of lady-bird beetle, *Adalia simmondsi* and

Sarup, a new species of *Palours*. N. S. Agrawal and Srivastava have studied the action of different concentrations of nicotine sulphate, ryania, parathion and D.D.T. on the frequency of heart-beat of isolated heart preparations of adult *Mylabris phalerata*. Bhakthan has studied the histochemical reaction of lipase, alkaline and acid phosphatases and succinic dehydrogenase in the thoracic muscles of the beetle, *Helicopriss bucephalus*. S.C. Chatterji *et al.*, have analysed the free amino acid constituents of different stages and sexes of *Trogoderma granarium*, while Chatterji *et al.*, have studied the intergeneric variations in free amino acids constituents of feeding stages of *Tribolium castaneum* and *Latheticus oryzae*. Datta Gupta has studied the response of three beetles to graded concentrations of pyrethrum for a fixed period or to a fixed concentration of pyrethrum for graded times and has compared the results. Kolya and Pant have investigated the role played by some of the vitamins of B group in the growth of *Oryzaephilus*. Krishna and Saxena have studied the digestive enzymes, pH and the fate of food in the gut of *Tribolium castaneum* and have discussed the correlation between the natural source of food of the insect and its capacity to digest, absorb and utilize the available nutrients. N. C. Pant and J. C. Pant have studied the effect of various lipids (sterols and fatty acids) upon the growth and development of *Trogoderma*.

## 12. ECHINODERMATA

Sane and Chhappgar have collected sixteen species of intertidal echinoderms of Bombay, belonging to seven different orders and ten families, which are recorded for the first time from Bombay. Two species are new records for India.

## 13. CHORDATA

### (a) PISCES

N. S. Varma *et al.* have given a list of fishes of Kanpur district, U.P., Motwani *et al.* have given an account of the fish fauna of the Brahmaputra river, with observations of their zoogeographical significance. Dubey and Mehra have given an account of the fish and fisheries of the Chambal river. Jayaram has discussed the systematic status of *Ailichthys punctata* and its relation with *Ailia coila*. K. S. Misra has described a new scyliorhinid fish, *Pentanclus (Parapristurus) investigatoris*, from the Andaman Sea, and Babu Rao has described a new species of *Setipinna* from the Godavary estuary. Ramaswami has given a resume of work done so far on the induction of spawning in catfish with hormones and has given the cytochemistry of their pituitary glands. Belsare has studied the morphology of the thyroid gland in *Ophicephalus*, *Heteropneustes* and *Clarias*. K. C. Bose has described the morphological and histological structure along with the function of the pineal organ in siluroid fishes and has

discussed the origin and evolution of this organ in the light of palaeontological, embryological and histological observations. S. M. Das and Khan have given a short history of the technique of pituitary treatment in pisciculture in different countries of the world and the location and latest nomenclature of these parts of the pituitary in four Indian fishes. Dehadri has studied some aspects of the anatomy, histology and physiology of the swim-bladder of *Notopterus* with special reference to its behaviour in aerial respiration and has also made some studies on the swim-bladder of certain marine clupeids. Datta Munshi has described the accessory respiratory organs of *Ophicephalus striatus*. D. N. Ganguly and Mitra have described the vertebral column of *Mugil corsula*, *Pama pama*, *Triacanthus brevirostris* and *Andamia heteroptera*. James has made a comparative study of the osteology of *Trichiurus lepturus*, *Lepturacanthus savala*, *Eupleurogrammus intermedius* and *E. muticus*. K. A. Khan has described the functional anatomy of the pituitary of *Labeo rohita*. Khanna has studied the bucco-pharyngeal region in some fishes and has described the structure of the alimentary canal of sixteen species of freshwater fishes. D. S. Mathur has studied the histo-pathological changes induced by D.D.T., B.H.C. and lindane in the liver, kidney and intestine of certain fishes. Mohsin has made a comparative study of the morphology and histology of the alimentary canals in certain groups of Indian teleosts. Sabnis and Rangneker have studied the blood cell formation in the freshwater teleost, *Ophicephalus punctatus*. D. B. Saxena has made a comparative study of the gill area in *Labeo rohita*, *Ophicephalus (Chana) striatus* and *Anabas testudineus*. A. David has described the embryonic and larval development of *Bagarius bagarius* and has given a brief taxonomic account of *Pangasius pangasius* of the Ganges.

#### (b) AMPHIBIA

S. L. Basu has made some observations on the spermatogenesis of the common Indian frog, *Rana tigrina* and has dealt with the effects of pituitary ablation, hypophyseal extract injection, testosterone implantation and low temperature treatment on spermatogenesis in *Bufo melanostictus*. Garg and Prasad have described the topographic morphology of the female urogenitalia of *Uraeotyphlus oxyurus* and *Ophisaurus gracilis*. M. Menon has described the effects of addition of cortisone and related adrenal cortical steroid hormones to water containing developing embryos of *Rana hexadactyla*. Mayers has given a note on the classification of the high-altitude pelobated toads of Asia.

#### (c) REPTILIA

Beddome has given a note on some reptiles of South India. Behura has made some observations on the vocal sounds of snakes. Deoras has given a brief account of the construction of a snake farm in Bombay and has described some methods of extracting venom from snakes.

#### (d) AVES

S. Ali has written a book on the birds of Sikkim. B. Biswas has given a list of the birds of Nepal. S. P. Bhattacharyya and Ghosh have studied the effect of progesterone on the histology and histo-chemistry of the uropygial gland of pigeons. Dominic has described the seasonal histological changes in the oviduct of pigeon. George and Talesara have demonstrated the distribution and localization-pattern of certain DPN-linked dehydrogenases in the red and white fibres of pigeon breast-muscles and have also demonstrated histo-chemically some oxidizing enzymes in the pectoralis major muscle of the rosy pastor, *Pastor roseus*. I. Ghosh and A. Ghosh have studied the differing association of adrenaline and non-adrenaline in the avian species. Mehrotra has studied the seasonal cycle of changes in the microscopic anatomy of the epididymis of *Anser melanotus*.

#### (e) MAMMALIA

Arslam has described the gross morphology and histology of the penis in *Funambulus pennanti*. S. P. Bhatnagar and Jain have studied the heart and its conducting tissue of bats to ascertain the nature and presence of sinoatrial node, atrioventricular node and atrioventricular bundle. Brosset has studied reproduction in the Chiroptera in Central India and has given an account of the morphology and ecology of the bats, *Megaderma spasma*, *M. lyra*, *Rhinolophus rouxi*, *R. lepidus*, *R. luctus* and *Hipposideros speoris*. Hill has made a taxonomic study of a number of rare or poorly known insectivores and bats from Upper Burma, Tibet and Assam. Khajuria has given a detailed account of coloration, external genitalia, osteometry, affinities, distribution and habits of the Gee's langur, *Presbytis geei*. Ramaswami and Anandkumar have studied the effect of sex steroids on the accessory reproductive organs of loris. K. Verma has described the structure of the skulls of Indian hedgehogs. Kanwar has made morphological and cytological studies on cytoplasmic inclusions of intestinal goblet cells of rats. N. K. Mitra *et al.* have studied the effect of X-irradiation on the adrenals of albino rats.

## II. BIBLIOGRAPHY OF INDIAN ZOOLOGY FOR 1962

### A

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### III. LIST OF NEW TAXA

#### Phylum I. PROTOZOA

Class I. Mastigophora  
Order (1) Polymastigina  
Family (i) Hexamitidae

1. *Giardia wenyoni* Abraham
2. *Giardia dasi* Abraham

Family (ii) Polymastigidae

3. *Monocercomonoides filamentum* Janakidevi

Order (2) Protomonadina  
Family (i) Bodomidae

4. *Retortamonas cheloni* Janakidevi
5. *Proteromonas uromastixi* Janakidevi

Family (ii) Trypanosomatidae

6. *Trypanosoma garruli* Subramanian & Singh
- 6a. *Trypanosoma punctati* Hasan & Qasim
- 6b. *Trypanosoma winchesiense* Qadri
- 6c. *Trypanosoma batrachi* Qadri
- 6d. *Trypanosoma saccobranchi* Qadri

Order (3) Hypermastigina  
Family Holomastigotidae

7. *Holomastigotoides visnagarensis* Uttangi
8. *Holomastigotoides ovalis* Uttangi
9. *Holomastigotoides melloi* Uttangi
10. *Holomastigotoides magnus* Uttangi
11. *Holomastigotoides elongata* Uttangi
12. *Holomastigotoides turboformis* Uttangi
13. *Holomastigotoides saceusiformis* Uttangi

Class 2. Sporozoa  
Order (1) Gregarinida  
Family (i) Monoductidae

14. *Sphaerocystis termitis* Desai & Uttangi

Family (ii) Stenophoridae

15. *Stenophora thyrogluti* Ganapati & Narasimhamurti

Family (iii) Gregarinidae

16. *Hirmocystis speculitermis* Uttangi & Desai
17. *Hirmocystis dharwarensis* Uttangi & Desai

\*\*Note: Except in the case of species, the new taxonomic categories are indicated against each name by the words: fam.n., g.n., subsp. n., var. n., etc.

Family (ix) Actinocephalidae

18. *Steinina termitis* Uttangi & Desai

Order (2) Coccidia  
Family Eimeriidae

19. *Isospora bellericae* Banik & Ray

Order (3) Myxosporidia  
Family Myxobolidae

20. *Thelohanellus boggoti* Qadri  
*Phlogospora* Qadri (g. n.)
21. *Phlogospora mysti* Qadri
- 21a. *Thelohanellus andrae* Qadri  
*Gyrospora* Qadri (g. n.)
- 21b. *Gyrospora brucifila* Qadri

Class 3. Ciliata  
Order (1) Trichostomatida  
Family Balantididae

22. *Balantidium radiatae* Abraham
23. *Balantidium caprae* Abraham
24. *Balantidium indicum* Abraham

Family Opalinidae

- 24a. *Cepedea hylae* Khan

Order (2) Hypotrichida  
Family Oxytrichidae

25. *Gastrostyla hebbalica* Rajasekarasetty & Kasturibai

Class 4. Sarcodina  
Order Foraminifera  
Family (i) Reophacidae

26. *Reophax cullygoodiensis* Rasheed

Family (ii) Verneuilinidae

27. *Spiroplectinata jagapathyi* Rasheed

Family (iii) Ellipsoidinidae

28. *Pleurostomella cullygoodiensis* Rasheed

#### Phylum II. PLATYHELMINTHES

Class 1. Turbellaria  
Family Bipaliidae

29. *Bipallium roonwali* Ramakrishna & Chauhan

Class 2. Trematoda  
Subclass (A) Monogenea  
Family (i) Dactylogyridae

30. *Dactylogyrus seenghali* Jain  
31. *Dactylogyrus rituis* Jain  
32. *Dactylogyrus catlaius* Jain

Family (ii) Opisthogynidae Unnithan (fam.n.)  
Subfamily (a) Opisthogyninae Unnithan  
(subfam.n.)

Genus *Opisthogyne* Unnithan (g.n.)

33. *Opisthogyne keralae* Unnithan  
34. *Gemmaecaputia brinkmannii* Unnithan  
35. *Allodiscocotyla diacanthi* Unnithan

Subfamily (b) Vallisiinae

36. *Vallisia indica* Unnithan

Family (iii) Protomicrocotylidae  
Subfamily Protomicrocotyloidea Unnithan  
(subfam.n.)

Genus *Abortipedia* Unnithan (g.n.)

37. *Abortipedia indica* Unnithan

Subclass (B) Digenea  
Family (i) Echinostomatidae

38. *Stephanoprora gigantea* Gupta  
39. *Echinoparyphium indicum* Rai  
39a. *Ignavia breviovatica* Gupta

Family (ii) Strigeidae

40. *Schwartzitrema nigericus* Gupta  
41. *Schwartzitrema perezii* Gupta

Family (iii) Diplostomidae

42. *Tylodelphys spinnata* Gupta  
43. *Tylodelphys indica* Gupta

Family (iv) Pronocephalidae  
Genus *Neocricicoephalus* Gupta (g.n.)

- 43a. *Neocricicoephalus vitallani* Gupta  
43b. *Neocricicoephalus trinidadii* Gupta

Family (v) Allocreadiidae

Genus *Labriferooides* Ganapati *et al* (g.n.)

44. *Allocreadium dollfusi* Rai  
45. *Allocreadium singhi* Rai  
46. *Allocreadium hirnai* Rai

Genus *Rhynchocreadium* Srivastava

47. *Rhynchocreadium aculeatum* Srivastava  
48. *Pycnadena komiyai* Srivastava

Family (vi) Opisthorchiidae

49. *Cercaria nautuchiensis* Malaki & Singh  
50. *Cercaria bhimtalensis* Malaki & Singh

Family (vii) Philophthalmidae

- 50a. *Philophthalmus lucknowensis* Baugh  
50b. *Philophthalmus haleyni* Baugh

Family (viii) Notocotylidae

51. *Paramonostomum harwoodi* Nath & Pandey

Family (ix) Plagiorchiidae

52. *Tremiorchis mehrai* Rai  
53. *Tremiorchis vitelloconfluentum* Rai

Family (x) Srivastavatrematidae  
K. S. Singh (fam.n.)

Genus *Srivastavatrema* K. S. Singh (g.n.)

54. *Srivastavatrema indica* K. S. Singh  
55. *Srivastavatrema mukteswarensis* K. S. Singh

Family (xi) Dicrocoeliidae

56. *Brachylecithum indicum* K. S. Singh  
57. *Brachylecithum chapmani* K. S. Singh

Family (xii) Brachylaemidae

58. *Brachylaema indica* K. S. Singh  
58a. *Brachylaemus ratti* Baugh

Family (xiii) Leucochloridiidae

59. *Leucochloridium indicum* K. S. Singh  
59a. *Leucochloridium nainitalensis* Baugh

Family (xiv) Lecithodendriidae

60. *Pleuropsolus microsoma* K. S. Singh

Family (xv) Stomylotrematidae

61. *Pseudolaterotrema indica* K. S. Singh

Family (xvi) Eucotylidae

62. *Tanaisia (Tamerlania) indica* K. S. Singh

## Family (xvii) Cyclocoellidae

62a. *Uvitellina indica* Siddiqi & Jairajpuri

## Family (xviii)

62b. *Artyfechinostomum paradoxuri* Baugh

## Class 3. Cestoda

## Order Cyclophyllidea

## Family (i) Hymenolepididae

63. *Hymenolepsis longiovata* Johri63a. *Mayhewia levinei* Tandon

## Family (ii) Anoplocephalidae

Genus *Indotaenia* K. S. Singh (g.n.)64. *Indotaenia indica* K. S. Singh

## Family (iii) Davaineidae

65. *Ophryocotyloides picusi* K. S. Singh66. *Ophryocotyloides makundi* K. S. Singh

## Family (iv) Dilepididae

67. *Ivritaenia mukteswarensis* K. S. Singh68. *Dilepis kumaunensis* K. S. Singh & Tandon

## Phylum III ASCHELMINTHES

## Class 1. Rotifera

69. *Polyarthra multiappendiculata* Arora70. *Conochiloides dossuarius asetosus* Arora (var. n.)

## Class 2. Nematoda

## Family (i) Aphelenchoidae

71. *Metaphelenchus sacchari* Akhtar

## Family (ii) Neotylenchidae

72. *Boleodorus indicus* Jairajpuri

## Family (iii) Cephalobidae

Genus *Paracephalobus* Akhtar (g.n.)73. *Paracephalobus litoralis* Akhtar

## Family (iv) Dipetalonematidae

74. *Brugia ceylonensis* Jayewardene75. *Chandlerella himalayensis* Sultana76. *Chandlerella alii* Sultana77. *Chandlerella buckleyi* Sultana78. *Splendidofilaria alii* Sultana79. *Splendidofilaria singhi* Sultana

## Family (v) Trichodoridae

80. *Trichodorus pakistanensis* Siddiqi

## Family (vi) Dorylaimoidae

81. *Longidorus jonesi* Siddiqi82. *Longidorus macromucronatus* Siddiqi83. *Longidorus longicaudatus* Siddiqi

## Family (vii) Filariidae

84. *Diplotriaena indica* Singh85. *Diplotriaena kumaunensis* Singh86. *Diplotriaena mukteswarensis* Singh86a. *Breinlia macropi* Wahid

## Family (viii) Trichostrongylidae

87. *Longistriata longispicularis* Singh88. *Longistriata brevispicularis* Singh

## Family (ix) Oxyuridae

89. *Wellcomeia indica* Singh

## Family (x) Heterocheilidae

90. *Porrocaecum rattii* Singh

## Family (xi) Tropisuridae

91. *Tetrameres (Gynaecophila) alii* Sultana92. *Microtetrameres (Gubernacules) rasheedae* Sultana93. *Microtetrameres (Gubernacules) cephalatus* Sultana94. *Microtetrameres (Microtetrameres) singhi* Sultana

## Family (xii) Linhomocidae

95. *Cinctonema papillata* Timm96. *Megadesmolaimus contortus* Timm97. *Metalinhomoeus karachiensis* Timm98. *Spirina striaticaudatus* Timm99. *Terschellingia lissa* Timm

## Phylum IV. ACANTHOCEPHALA

## Family Echinorhynchidae

100. *Filisoma scatophagusi* Datta & Soota101. *Filisoma hoogliensis* Datta & Soota

## Phylum V. ANNELIDA

## Class Chaetopoda

## Order (1) Polychaeta

## Family Onuphidae

102. *Nothria mannarensis* Rangarajan & Mahadevan

Order (2) Oligochaeta  
Family (i) Naididae

103. *Aulophorus indicus* Naidu  
104. *Aulophorus hymanae* Naidu  
105. *Allonais rayalaseemensis* Naidu  
106. *Dero indica* Naidu  
107. *Dero plumosa* Naidu

Family (ii) Moniligastridae

108. *Drawida victoriana* Gates

Phylum VI. MOLLUSCA

Class Gastropoda  
Family Viviparidae

- 108a. *Viviparus dinaporensis* Ray

Phylum VII. ARTHROPODA

Class 1. Crustacea  
Subclass (A) Branchiopoda  
Order Conchostraca  
Family (i) Caenestheridae

109. *Caenestheria misrai* Tiwari  
110. *Caenestheria roonwali* Tiwari  
111. *Eocyclus pellacidus* Tiwari

Family (ii) Leptestheriidae

112. *Leptestheria jaisalmerensis* Tiwari

Subclass (B) Copepoda  
Order (1) Monstrilloida  
Family Monstrillidae

113. *Cymbasoma bali* Desai & Krishnaswamy  
113a. *Monstrilla lata* Desai & Bal

Order (2) Cyclopoida  
Family (i) Stellicomitidae  
Genus *Asterocomes* Rao (g. n.)

114. *Asterocomes indica* Rao

Family (ii) Bomolochidae

115. *Bomolochus aculeatus* Krishna Pillai

Family (iii) Asterocheridae

116. *Asteropontius littoralis* Ummerkutty  
117. *Asteropontius sewelli* Ummerkutty

Family (iv) Dyspontiidae

118. *Cryptopontius graciloides* Ummerkutty  
119. *Cryptopontius orientalis* Ummerkutty

Family (v) Clausidiidae

120. *Hemicyclops intermedius* Ummerkutty

Family (vi) Lichomolgidae

121. *Pseudoanthessius agilis* Ummerkutty  
122. *Macrochiron (Macrochiron) rigida* Ummerkutty  
123. *Lichomolagus holothuriae* Ummerkutty  
124. *Lichomolagus brevifurcatus* Ummerkutty  
125. *Lichomolagus indicus* Ummerkutty  
126. *Lichomolagus serratipes* Ummerkutty

Family (vii) Ergasilidae

127. *Ostrincola portonoviensis* Reddiah

Order (3) Caligoida  
Family Caligidae

128. *Hermilius helleri* Krishna Pillai

Order (4) Lernacopoida  
Family (i) Lernacopodidae

129. *Thysanote decemfimbriata* Krishna Pillai  
130. *Brachiella otolithi* Krishna Pillai  
131. *Charopinus dasyaticus* Krishna Pillai  
132. *Charopinus narcinae* Krishna Pillai  
133. *Clavellopsis bilobata* Krishna Pillai  
134. *Clavellisa ilishae* Krishna Pillai  
135. *Clavellisa hilsa* Tripathy  
136. *Clavellisa pellaenae* Tripathy  
137. *Clavellisa phasa* Tripathy  
138. *Brachiella indica* Tripathy  
139. *Naobranchia polynemi* Tripathy  
140. *Thysanote octofimbriata* Tripathy

Family (ii) Choniostomatidae

141. *Choniomyson panuliri* Krishna Pillai

Family (iii) Anthosomatidae

142. *Lernanthropus cruciatus* Krishna Pillai  
143. *Lernanthropus latesi* Tripathi  
144. *Lernanthropus kanagurta* Tripathi  
145. *Lernanthropus engraulis* Tripathi  
146. *Lernanthropus abitocephalus* Tripathi  
147. *Lernanthropus pami* Tripathi  
148. *Lernanthropus chirocentrosus* Tripathi  
149. *Lernanthropus leiognathi* Tripathi  
150. *Lernanthropodes trachinoti* Krishna Pillai  
151. *Lernanthropodes chorinemi* Krishna Pillai

Order (5) Harpactoida  
Family Dichelesthidae

152. *Eudactylina puriensis* Tripathi

Subclass (C) Cirripedia  
Order Thoracica  
Family Balanidae

153. *Balanus (Semibalanus) sinnurensis* Daniel

Subclass (D) Malacostraca  
Order Decapoda  
Family (i) Atyidae

154. *Caridina fernandoi* Arudpragasam & Costa

155. *Caridina nilotica zeylanica* Arudpragasam & Costa  
(subsp. n.)

Family (ii) Xanthidae  
Genus *Jonesius* Sankarankutty (g.n.)

156. *Jonesius minuta* Sankarankutty (sp. n.)

Genus *Pseudoporcellanella* Sankarankutty (g. n.)

157. *Pseudoporcellanella manoliensis* Sankarankutty

Family (iii) Paguridae

158. *Pagurus kulkarnii* Sankolli

Subclass (E) Isopoda  
Family Sphaeromidae

158a. *Cassidina extenda* Joshi & Bal

Class 2. Arachnida  
Order (1) Araneae  
Family (i) Agelenidae

159. *Agelena gautami* Tikader

Family (ii) Thomisidae

160. *Thomisus sikkimensis* Tikader

161. *Pistius sreepanchamii* Tikader

162. *Misumena horai* Tikader

163. *Misumena mridulai* Tikader

164. *Xysticus kamakhya* Tikader

165. *Xysticus sujatai* Tikader

166. *Xysticus shillongensis* Tikader

167. *Synaima brunettii* Tikader

168. *Bomis bengalensis* Tikader

169. *Philodromus assamensis* Tikader

170. *Philodromus decoratus* Tikader

170a. *Tibellus chaturshingi* Tikader

170b. *Tibellus poonaensis* Tikader

170c. *Tibellus katrajghatus* Tikader

Family (iii) Argiopidae

171. *Nephila robusta* Tikader

Family (iv) Clubionidae

172. *Cheiracanthium saraswatii* Tikader

Family (v) Oecobiidae

173. *Oecobius marathans* Tikader

Family (vi) Gnaphosidae

174. *Scotophaeus domesticus* Tikader

175. *Drassodes malodes* Tikader

Order (2) Acarina  
Family Ixodidae

176. *Haemaphysalis nepalensis* Hoogstraal

177. *Haemaphysalis cornupunctata* Hoogstraal

178. *Haemaphysalis kashmirensis* Hoogstraal

Order (3) Chelonethida  
Family Atemnidae

179. *Tullgrenius vachonicus* Murthy

Class 3. Insecta  
Order (1) Orthoptera  
Family Acrididae  
Genus *Catantopus* Uvarov (g. n.)

180. *Catantopus nilgiriensis* Uvarov

Order (2) Dermaptera  
Family Chelisochidae

181. *Proreus longiforceps* Ramamurthy

Order (3) Isoptera  
Family (i) Termitidae

182. *Odontotermes parlatigula* Chatterjee & Sen-Sarma

183. *Odontotermes bellahunisensis guptai* Roonwal & Bose (subsp. n.)

Genus *Microcapritermes* Mathur & Thapa (g. n.)

184. *Microcapritermes pilosus* Mathur & Thapa

Genus *Ampoulitermes* Mathur & Thapa (g. n.)

185. *Ampoulitermes wynaadensis* Mathur & Thapa

186. *Macrotermes khajurjai* Roonwal & Chhotani

187. *Odontotermes horai* Roonwal & Chhotani

188. *Odontotermes kapuri* Roonwal & Chhotani

189. *Microtermes imphalensis* Roonwal & Chhotani

190. *Microtermes umsaе* Roonwal & Chhotani  
 191. *Nasutitermes cherraensis* Roonwal & Chhotani  
 192. *Nasutitermes garoensis* Roonwal & Chhotani  
 193. *Nasutitermes kali* Roonwal & Chhotani  
 194. *Capritermes latignathus durga* Roonwal & Chhotani (subsp. n.)  
 195. *Pseudocapritermes tikadari* Roonwal & Chhotani  
 196. *Speculitermes deccanensis* Roonwal & Chhotani  
 197. *Speculitermes deccanensis paivai* Roonwal & Chhotani (subsp. n.)  
 198. *Speculitermes cyclops rongrensis* Roonwal & Chhotani (subsp. n.)

#### Family (ii) Rhinotermitidae

199. *Reticulitermes sarswati* Roonwal & Chhotani

#### Order (4) Siphunculata (Anoplura) Family Hoplopleuridae

200. *Hoplopleura mitsuii* Kaneko  
 201. *Enderleinellus nishimarui* Kaneko

#### Order (5) Hemiptera Suborder (a) Homoptera Family Issidae

202. *Rhinogaster sinuata* Menon & Parshad

#### Suborder (b) Heteroptera Family (i) Lygaeidae

203. *Pylorgus indicus* Scudder

#### Family (ii) Pentatomidae

204. *Carpoeoris dell'himalaia* Tamanini

#### Order (6) Thysanoptera

205. *Hyalopterothrips roonwali* Bhatti

#### Genus *Bathrips* Bhatti (g.n.)

206. *Taeniothrips ghoshi* Bhatti  
 207. *Physothrips cortus* Bhatti  
 208. *Chloethrips faurei* Bhatti  
 Subgenus *Pongaminothrips* Ananthakrishnan (subsp. n.)

#### Order (7) Lepidoptera Family Noctuidae

209. *Cteipolia lithophila* Kapur

#### Order (8) Diptera Family (i) Tipulidae

210. *Gonomyia (Protogonomyia) clista* Alexander  
 211. *Gonomyia (Protogonomyia) acustylata* Alexander

212. *Gonomyia (Protogonomyia) distifurca* Alexander  
 213. *Gonomyia (Protogonomyia) khasiana* Alexander  
 214. *Gonomyia (Protogonomyia) megalomata* Alexander  
 215. *Gonomyia (Protogonomyia) thiorhopala* Alexander  
 216. *Rhabdomastix (Sacandaga) teriensis* Alexander  
 217. *Toxorhina (Ceratocheilus) monostyla* Alexander  
 218. *Toxorhina (Ceratocheilus) luteibasis* Alexander  
 219. *Toxorhina (Toxorhina) scita* Alexander  
 220. *Toxorhina (Toxorhina) sparsiseta* Alexander  
 221. *Hexatoma (Hexatoma) khasiensis* Alexander  
 222. *Hexatoma (Eriocera) kala* Alexander  
 223. *Hexatoma (Eriocera) karma* Alexander  
 224. *Hexatoma (Eriocera) mitra* Alexander  
 225. *Hexatoma (Eriocera) setigera* Alexander  
 226. *Hexatoma (Eriocera) pennata* Alexander

#### Family (ii) Cecidomyiidae

227. *Micromyia orientalis* Grover  
 228. *Micromyia championii* Grover  
 229. *Dyodiplosis glomerataii* Grover  
 230. *Amraemyia allahabadensis* Grover

#### Family (iii) Tabanidae

231. *Cydistomyia (Tabantotelum) primitiva* Mackerras  
 232. *Cydistomyia (Tabantotelum) secunda* Mackerras

#### Family (iv) Agromyzidae

233. *Agromyza burmensis* Spencer  
 234. *Agromyza comosa* Spencer  
 235. *Agromyza malaisei* Spencer  
 236. *Japanagromyza delecta* Spencer  
 237. *Melanagromyza superciliata* Spencer  
 238. *Ophiomyia ingens* Spencer

#### Order (9) Hymenoptera Family (i) Tenthredinidae

239. *Athalia circularis melanoptera* Benson (subsp. n.)  
 240. *Athalia indiana* Benson  
 241. *Athalia birmanica* Benson

#### Family (ii) Mutillidae

242. *Odontomutilla assamensis* Hammer  
 243. *Odontomutilla familiaris trimaculata* Hammer (subsp. n.)  
 244. *Mutilla scrobiculata* Hammer  
 245. *Trogaspidia rufocarinata* Hammer  
 246. *Trogaspidia regina* Hammer  
 247. *Trogaspidia greeni* Hammer  
 248. *Trogaspidia himalayana* Hammer  
 249. *Trogaspidia versicolor* Hammer  
 250. *Trogaspidia cunjungata* Hammer  
 251. *Trogaspidia simulans* Hammer  
 252. *Trogaspidia nana* Hammer  
 253. *Trogaspidia caliginosa* Hammer

254. *Trogaspidia aeruginosa* Hammer  
 255. *Trogaspidia rutilipes* Hammer  
 256. *Trogaspidia margheritae* Hammer  
 257. *Trogaspidia similis* Hammer  
 258. *Trogaspidia aurotaeniata* Hammer  
 259. *Trogaspidia niveofimbriata* Hammer  
 260. *Trogaspidia andamana* Hammer  
 261. *Trogaspidia probabilis* Hammer  
 262. *Trogaspidia aliena* Hammer  
 263. *Trogaspidia fimbriata* Hammer  
 264. *Trogaspidia bicornuta* Hammer  
 265. *Trogaspidia bilobata* Hammer  
 266. *Smicromyrme arabica* Hammer  
 267. *Smicromyrme darjilingi* Hammer  
 268. *Smicromyrme kashmirensis* Hammer  
 269. *Smicromyrme nepalensis* Hammer  
 270. *Smicromyrme mirabilis* Hammer  
 271. *Smicromyrme granulata* Hammer  
 272. *Smicromyrme maritima* Hammer  
 273. *Smicromyrme horai* Hammer  
 274. *Smicromyrme neglecta* Hammer  
 275. *Smicromyrme sexmaculata* Hammer  
 276. *Smicromyrme nana* Hammer  
 277. *Smicromyrme bicolor* Hammer  
 278. *Smicromyrme hilaris* Hammer  
 279. *Smicromyrme pusillaeformis* Hammer  
 280. *Promecilla perfecta* Hammer  
 281. *Promecilla differens* Hammer  
 282. *Promecilla gravelyi* Hammer  
 283. *Stenomutilla aureolutea* Hammer  
 284. *Pseudophotopsis continua arabica* Hammer (subsp. n.)

#### Family (iii) Ichneumonidae

285. *Kristotomus nathani* Manson

#### Family (iv) Torymidae

286. *Liodontomerus indicus* Subba Rao & Bhatia

#### Family (v) Scelionidae

287. *Hadrophanurus testaceus* Subba Rao & Chacko  
 288. *Hadrophanurus nigroides* Subba Rao & Chacko  
 289. *Hadrophanurus indicus* Subba Rao & Chacko

#### Order (10) Coleoptera

##### Family (i) Cerambycidae

290. *Egesina gilmouri* Breuning

##### Family (ii) Scarabaeidae

291. *Apogonia unidens* Frey  
 292. *Apogonia schereri* Frey  
 293. *Apogonia convexicollis* Frey  
 294. *Leucoserica assamensis* Frey  
 295. *Cephaloserica schereri* Frey  
 296. *Onthopagus octogonus* Frey  
 297. *Onthopagus planifrons* Frey  
 298. *Onthopagus deccanensis* Frey

##### Family (iii) Coccinellidae

299. *Adalia simmondsi* Kapur & Rao

##### Family (iv) Tenebrionidae

300. *Palorus sinui* Sarup

### Phylum VIII. CHORDATA

Class Teleostei  
 Order Clupeiformes  
 Family Engraulidae

301. *Setipinna godayari* Babu Rao

## IV. SUBJECT INDEX

The subject index is divided into 13 sections as follows:

- |                            |                   |
|----------------------------|-------------------|
| 1. General                 | 10. Mollusca      |
| 2. Protozoa                | 11. Arthropoda    |
| 3. Porifera                | (a) Crustacea     |
| 4. Cnidaria (Coelenterata) | (b) Myriapoda     |
| 5. Platyhelminthes         | (c) Arachnida     |
| (a) Trematoda              | (d) Insecta       |
| (b) Cestoda                | 12. Echinodermata |
| 6. Aschelminthes           | 13. Chordata      |
| (a) Rotifera               | (a) Pisces        |
| (b) Namatoda               | (b) Amphibia      |
| 7. Acanthocephala          | (c) Reptilia      |
| 8. Annelida                | (d) Aves          |
| 9. Echiuroidea             | (e) Mammalia      |

The numbers given under each section refer to the serial number of the reference in the bibliography.

### 1. GENERAL

117, 158a, 403, 470, 498, 553, 569, 575, 576, 634, 641, 659, 695, 729, 744, 784, 811, 879, 880, 881, 929, 956, 1094, 1186, 1306, 1317, 1348, 1362, 1363, 1364, 1400, 1459, 1478, 1509, 1515, 1536, 1570, 1582, 1612, 1689, 1694, 1695, 1766, 1789, 1792.

### 2. PROTOZOA

*General:* 336a, 991, 993, 994, 1175, 1421.  
*Systematics:* 9, 10, 128, 171, 397, 473, 613, 619, 651, 652, 733, 1030, 1031, 1032, 1033, 1209, 1211, 1212, 1213, 1214, 1215, 1243, 1420, 1696, 1771, 1772, 1773.  
*Morphology:* 636, 1508, 1560.  
*Histology & Cytology:* 255, 256, 261, 402, 441, 442, 443, 444, 445, 716, 966, 1006, 1071, 1707, 1812.  
*Physiology:* 120, 122, 133, 524, 609, 963, 966, 977, 994, 1006, 1245, 1336, 1337, 1419.  
*Biology & Development:* 465, 531, 1210, 1813.  
*Ecology:* 406, 477, 561.  
*Life-history:* 1172, 1212, 1513.  
*Economic & Control:* 134, 262, 466, 524, 537, 538, 539, 540, 541, 547, 1318, 1420.  
*Palaeozoology:* 1321, 1322, 1460, 1720.

### 3. PORIFERA

*Physiology:* 227, 485, 486.

### 4. CNIDARIA (Coelenterata)

*Histology & Cytology:* 233, 968, 1441, 1613.  
*Biology & Development:* 472, 962, 1442, 1443.  
*Physiology:* 962, 964, 965, 968, 969.  
*Zoogeography & Faunistic:* 481, 1187.

### 5. PLATYHELMINTHES

#### (a) Trematoda

*General:* 297.

*Systematics:* 14, 150, 151, 152, 173, 471, 590, 591, 592, 593, 594, 643, 644, 909, 910, 911, 912, 913, 914, 915, 916, 1002, 1065, 1066, 1227, 1228, 1229, 1245, 1556, 1557, 1565, 1586, 1587, 1588, 1589, 1590, 1594, 1671, 1672, 1768, 1769.

*Morphology & Anatomy:* 100, 152, 173, 438, 440, 663, 669, 863, 1002, 1287, 1288, 1543, 1555, 1673.

*Histology & Cytology:* 615, 1416.

*Biology & Development:* 384, 439, 440, 476, 1002, 1458, 1543, 1673.

*Physiology:* 599.

*Ecology:* 169, 414, 436, 438, 476, 662, 1602.

*Economic & Control:* 56, 178, 297, 719, 771, 1003, 1193, 1438.

*Faunistic:* 644.

#### (b) Cestoda

*Systematics:* 242, 668, 670, 1591, 1592, 1595, 1596, 1597, 1598.

*Morphology & Anatomy:* 316, 1015.

*Histology & Cytology:* 316.

*Biology & Development:* 437, 661, 669, 1496, 1701.

*Economic & Control:* 220, 1495.

### 6. ASCHELMINTHES

#### (a) Rotifera

*Morphology:* 98.

*Biology & Bionomics:* 98.

#### (b) Namatoda

*General:* 6, 460, 1778.

*Systematics:* 26, 31, 32, 260, 602, 646, 660, 722, 1102, 1352, 1558, 1559, 1580, 1584, 1585, 1593, 1699, 1700, 1747, 1748, 1749, 1822.

*Morphology:* 71, 342, 414, 463.

*Physiology:* 599, 722.

*Biology & Bionomics:* 383, 384, 460, 1024, 1190, 1311.

*Ecology:* 215, 243, 414, 680, 689, 743, 1113, 1115, 1352, 1790.

*Life history:* 59, 383, 1703.

*Economic & Control:* 6, 59, 62, 111, 243, 313, 386, 387, 388, 603, 680, 828, 960, 1028, 1035, 1101, 1115, 1121, 1188, 1190, 1222, 1263, 1423, 1514, 1576, 1784.

*Development:* 59.

*Zoogeography & Faunistic:* 466, 1035, 1102.

### 7. ACANTHOCEPHALA

*Systematics:* 353, 545.

*Taxonomy:* 545.

## 8. ANNELIDA

*Systematics*: 493, 494, 939, 1031, 1032, 1033, 1277, 1819.

*Morphology*: 1278.

*Physiology*: 686, 1291, 1534, 1535.

*Biology & Bionomics*: 475.

*Ecology*: 234, 357, 369, 475, 1535.

*Economic & Control*: 234.

*Zoogeography & Faunistic*: 369.

## 9. ECHIUROIDEA

*Systematics*: 939.

*Ecology*: 357.

## 10. MOLLUSCA

*General*: 253, 1019.

*Systematics*: 746, 1074, 1286, 1723.

*Morphology*: 33, 392, 511, 512, 514, 516, 518, 519, 1023, 1024, 1265, 1297, 1298, 1299, 1335, 1644, 1807, 1808.

*Histology & Cytology*: 1024c, 1025, 1676, 1745.

*Biology & Development*: 511, 512, 513, 514, 515, 517, 518, 1022, 1025, 1264, 1296, 1299, 1645, 1805.

*Ecology*: 513, 1020, 1021, 1038, 1087, 1806.

*Physiology*: 53, 69, 430, 518, 686, 1023, 1024a, 1024b, 1291.

*Economic & Control*: 53, 1625, 1777.

*Palaeozoology*: 270a, 1405, 1406, 1407, 1460a, 1723, 1798.

## 11. ARTHROPODA

## (a) Caustacea

*General*: 88, 303, 935, 1364.

*Systematics*: 103, 116, 304, 324, 325, 393, 394, 478, 677, 848, 1074, 1092, 1131, 1132, 1133, 1135, 1136, 1137, 1138, 1139, 1254, 1283, 1344, 1428, 1432, 1433, 1435, 1751, 1761, 1762, 1765.

*Morphology*: 24, 160, 505, 506, 507, 584, 775, 788, 848, 1134, 1140, 1141, 1142, 1143, 1246, 1279, 1429, 1436, 1452, 1453, 1473, 1501, 1752.

*Histology & Cytology*: 903, 1079, 1141, 1293.

*Physiology*: 25, 41, 474, 584, 634, 683, 759, 774, 844, 1106, 1280, 1492, 1697.

*Biology & Development*: 632, 788, 834, 945, 1143, 1234, 1246, 1345, 1437, 1498, 1501, 1733.

*Ecology & Behaviour*: 200, 304, 479, 767, 834, 945, 1019, 1021, 1134, 1236, 1434, 1733.

*Economic & Control*: 88, 411, 557.

*Zoogeography & Faunistic*: 116, 411, 478, 1430, 1431.

*Palaeozoology*: 1238, 1753.

## (b) Myriapoda

*Morphology*: 1001, 1549.

*Histology*: 1705.

*Economic*: 1207.

## (c) Arachnida

*General*: 1052, 1505.

*Systematics*: 113, 464, 625, 627, 628, 629, 878, 1011, 1053, 1054, 1205, 1356, 1738, 1739, 1740, 1741, 1743.

*Morphology*: 156, 327, 464, 760, 1001, 1051, 1471, 1742.

*Histology & Cytology*: 760, 884, 953, 954, 1244, 1446, 1447, 1524a, 1548.

*Physiology & Biochemistry*: 691, 692, 801, 883, 884, 917, 1093, 1290, 1304, 1305.

*Biology & Development*: 334, 883, 1051, 1053, 1780.

*Ecology*: 206, 213, 389a, 627, 938, 1051.

*Economic & Control*: 35, 36, 63, 213, 290, 334, 824, 995, 996, 1494, 1756, 1803.

*Parasitology*: 1113.

*Pathology*: 1757, 1779.

*Zoogeography & Faunistic*: 36, 1026, 1507.

## (d) Insecta

## I General

22, 34, 147, 536, 723, 757, 778, 790, 867, 868, 869, 870, 871, 988, 1058, 1219, 1360, 1364, 1377, 1505, 1621, 1687, 1815, 1816.

## II Insect Orders

## (i) Collembola

*Systematics*: 96, 310.

*Morphology*: 310.

*Ecology*: 308, 309.

*Control*: 308.

## (ii) Odonata

*Morphology*: 893, 1425.

## (iii) Orthoptera

*General*: 1196, 1357, 1358, 1359, 1366.

*Systematics*: 908, 1372, 1774, 1775.

*Morphology*: 320, 571, 742, 1253, 1365, 1369, 1727.

*Histology & Cytology*: 874, 1341, 1342, 1525, 1537.

*Physiology*: 311, 679, 823, 1248, 1249, 1251, 1653.

*Biology & Development*: 181, 311, 791, 830, 1048, 1247, 1250, 1661, 1735.

*Ecology*: 179, 180, 181, 182, 183, 311, 830, 831, 1048, 1150, 1152, 1252, 1649.

*Economic & Control*: 77, 104, 180, 679, 823, 831, 857, 1151, 1252, 1334, 1648, 1734.

*Zoogeography & Faunistic*: 791.

## (iv) Phasmida

*Physiology*: 1491.

## (v) Dermaptera

*Systematics*: 1267.  
*Physiology*: 681.  
*Morphology*: 676, 681.

## (vi) Isoptera

*General*: 72, 107, 510, 552, 948, 1767.  
*Systematics*: 154, 271, 804, 901, 902, 1365, 1375, 1383, 1384, 1385.  
*Morphology*: 37, 461, 596, 597, 803, 805, 805, 900, 979, 1806, 1810.  
*Physiology*: 1289.  
*Ecology*: 108, 114, 154, 272, 274, 301, 331, 341, 390, 433, 630, 673, 701, 725, 762, 899, 1371, 1512.  
*Biology & Development*: 95, 107, 305, 306, 673.  
*Evolution*: 461, 462.  
*Economic & Control*: 191, 274, 331, 433, 467, 616, 762, 1054, 1123, 1201, 1346, 1376, 1378, 1379, 1426, 1454, 1631, 1657.  
*Zoogeography & Faunistic*: 27, 153, 1374, 1382, 1384, 1386, 1811.

## (vii) Mallophaga

*Systematics*: 318.  
*Control*: 1398.  
*Morphology*: 318.

## (viii) Anoplura

*Control*: 1049.

## (ix) Siphunculata

*Systematics*: 688.  
*Control*: 1049.

## (x) Hemiptera

*General*: 146, 322, 1062.  
*Systematics*: 131, 226, 244, 523, 785, 786, 832, 835, 943, 1088, 1497, 1715.  
*Morphology & Anatomy*: 64, 65, 97, 229, 230, 270, 299, 300, 521, 549, 785, 786, 789, 799, 800, 980, 987, 989, 1323, 1324, 1326, 1332, 1333, 1427.  
*Histology & Cytology*: 407, 408, 799, 989, 990, 1520, 1527.  
*Physiology & Biochemistry*: 189, 277, 732, 733a, 845, 1325, 1327, 1328, 1487.  
*Biology & Development*: 52, 332, 333, 399, 621, 789, 836, 837, 864, 906, 985, 1037, 1224, 1264, 1387, 1486, 1607, 1781.  
*Ecology*: 48, 49, 51, 52, 60, 145, 190, 241, 277, 329, 333, 364, 400, 598, 621, 704, 772, 776, 815, 864, 865, 887, 906, 951, 1012, 1062, 1197, 1370, 1510, 1730.  
*Parasitology*: 886.  
*Taxonomy*: 523.

*Economic & Control*: 49, 60, 125, 145, 167, 168, 170, 190, 217, 400, 530, 598, 671, 704, 705, 772, 773, 776, 835, 857, 864, 887, 1012, 1037, 1057, 1456, 1531, 1577, 1654, 1796.  
*Genetics*: 821.  
*Bionomics*: 170, 523, 838.  
*Zoogeography & Faunistic*: 241, 522, 959.

## (xi) Thysanoptera

*Systematics*: 67, 209, 210, 211, 1414.  
*Morphology*: 66.

## (xii) Lepidoptera

*General*: 1173, 1445.  
*Systematics*: 702, 748, 1804, 1820.  
*Morphology & Anatomy*: 109, 163, 578, 809, 895, 983, 1125, 1674, 1675, 1770.  
*Histology & Cytology*: 20, 381, 488, 578, 1678.  
*Physiology*: 20, 578, 696, 1075, 1500, 1553, 1554, 1638, 1680.  
*Biology & Development*: 42, 163, 367, 484, 720, 809, 982, 984, 1075, 1110, 1655, 1656, 1662, 1665, 1666.  
*Ecology*: 42, 105, 195, 201, 245, 275, 365, 366, 367, 525, 531, 720, 741, 782, 885, 940, 941, 1027, 1110, 1350, 1351, 1732.  
*Economic & Control*: 62, 73, 74, 201, 363, 365, 366, 382, 484, 678, 721, 782, 885, 940, 941, 1153, 1380, 1619, 1624, 1651, 1655, 1656, 1659, 1660, 1662, 1712, 1714, 1788, 1802.  
*Evolution*: 83.

## (xiii) Diptera

*General*: 532, 749, 1533, 1713.  
*Systematics*: 38, 39, 40, 346, 348, 533, 563, 564, 565, 566, 568, 779, 843, 1056, 1220, 1633, 1634.  
*Morphology & Anatomy*: 347, 349, 560, 1076, 1077, 1078, 1105, 1422, 1605, 1818.  
*Histology & Cytology*: 560, 1354, 1530, 1620.  
*Physiology*: 350, 416, 534, 620, 685, 765, 840, 1036, 1082.  
*Biology & Bionomics*: 13, 319, 345, 567, 1056, 1103, 1126.  
*Ecology*: 184, 273, 293, 319, 345, 533, 534, 828, 894, 1046, 1081, 1171, 1240, 1816, 1817.  
*Genetics & Evolution*: 1340, 1821.  
*Development*: 559, 621.  
*Parasitology*: 535.  
*Economic & Control*: 78, 293, 321, 406, 532, 536, 685, 764, 765, 793, 827, 839, 840, 937, 1095, 1103, 1122, 1126, 1261, 1529, 1530, 1642.  
*Zoogeography & Faunistic*: 346, 348.

## (xiv) Siphonaptera

*Physiology*: 763, 957.  
*Control*: 955.

## (xv) Hymenoptera

*General*: 198, 380, 958.  
*Systematics*: 50, 162, 600, 610, 614, 833, 876, 898, 1058, 1242, 1691, 1692.  
*Morphology*: 548, 934.  
*Physiology*: 1059, 1652.  
*Biology & Development*: 302, 548, 825, 865, 1511, 1693, 1709, 1744.  
*Ecology*: 50, 275, 302, 858, 886, 1056, 1519.  
*Parasitology*: 275.  
*Bionomics*: 1056.  
*Economic & Control*: 198, 273, 721, 1561, 1603.  
*Zoogeography & Faunistic*: 601, 898.

## (xvi) Dictyoptera

*Ecology*: 857.

## (xvii) Coleoptera

*General*: 112, 1542.  
*Systematics*: 235, 236, 280, 468, 469, 509, 653, 706, 829, 1320, 1455.  
*Morphology & Anatomy*: 543, 544, 618, 703, 745, 802, 1192, 1355, 1516, 1618.  
*Histology & Cytology*: 166, 1279a.  
*Physiology & Biochemistry*: 188, 279, 280, 356, 751, 755, 756, 758, 761, 860, 970, 986, 1109, 1457, 1658.  
*Biology & Development*: 21, 112, 276, 730, 797, 802, 865, 981, 1347.  
*Ecology*: 61, 434, 703, 730, 829, 896, 971, 1413.  
*Economic & Control*: 21, 34, 759, 807, 808, 896, 971, 1204, 1347, 1618.  
*Bionomics*: 21.  
*Zoogeography & Faunistic*: 653, 703, 829.

## (xviii) Pest, Insecticides &amp; Control

12, 22, 35, 36, 58, 75, 76, 78, 106, 143, 144, 147, 148, 177, 194, 195, 214, 263, 278, 282, 283, 291, 299, 300, 313, 317, 321, 330, 363, 365, 368, 398, 400, 415, 434, 675, 678, 717, 718, 740, 757, 770, 806, 822, 859, 861, 862, 867, 868, 869, 870, 871, 882, 888, 897, 942, 951, 986, 988, 997, 1008, 1055, 1091, 1122, 1206, 1223, 1490, 1573, 1580, 1622, 1639, 1650, 1663, 1664, 1668, 1669, 1670, 1685, 1686, 1687, 1688, 1721, 1731, 1776, 1815.

## 12. ECHINODERMATA

*Ecology*: 475.  
*Faunistic*: 1424.

## 13. CHORDATA

## (a) Pisces

*General*: 55, 82, 89, 90, 91, 92, 93, 94, 119, 248, 249, 250, 339, 340, 391, 410, 429, 455, 457, 458, 459, 542,

700, 715, 794, 795, 796, 932, 1014, 1178, 1474, 1475, 1476, 1637, 1737, 1763.  
*Systematics*: 248, 362, 649, 655, 656, 714, 851, 932, 949, 1144, 1145, 1301, 1698.  
*Morphology & Anatomy*: 7, 23, 30, 55, 159, 174, 175, 204, 228, 284, 307, 328, 336b, 337, 340, 359, 360, 374, 428, 435, 446, 448, 489, 495, 496, 648, 649, 672, 714, 731, 737, 738, 739, 819, 842, 850, 851, 877, 925, 961, 972, 973, 1016, 1017, 1018, 1047, 1111, 1112, 1319, 1450, 1465, 1466, 1467, 1468, 1468, 1482, 1484, 1493, 1564, 1615, 1711, 1782, 1783, 1784.  
*Histology & Cytology*: 28, 29, 30, 340, 372, 694, 724, 816, 890, 891, 892, 961, 1047, 1079, 1390, 1415, 1463, 1464, 1532, 1609, 1679.  
*Physiology & Biochemistry*: 87, 212, 247, 281, 287, 288, 336, 375, 376, 409, 447, 694, 850, 866, 889, 1010, 1269, 1389, 1397, 1468, 1470, 1483, 1502, 1637, 1641, 1647, 1682, 1683, 1684, 1755, 1794.  
*Biology & Development*: 54, 89, 115, 161, 176, 212, 254, 285, 286, 187, 288, 337, 361, 480, 504, 632, 697, 698, 699, 792, 820, 847, 1111, 1231, 1256, 1270, 1294, 1417.  
*Ecology*: 54, 84, 119, 161, 251, 252, 253, 254, 285, 286, 417, 456, 480, 504, 547, 631, 633, 635, 834, 892, 930, 931, 1149, 1274, 1401, 1503, 1563.  
*Biometry*: 435, 925.  
*Economic & Control*: 81, 82, 87, 91, 747, 795, 796, 1080, 1241, 1313, 1395.  
*Zoogeography & Faunistic*: 161, 338, 352, 429, 820, 846, 929, 976, 1274, 1629, 1800.  
*Pathology*: 358, 890, 891.  
*Evolution*: 850, 930.  
*Palaeozoology*: 1489.

## (b) Amphibia

*General*: 1, 550.  
*Systematics*: 946, 1013, 1722, 1759.  
*Morphology & Anatomy*: 165, 264, 343, 491, 492, 573, 1506, 1640.  
*Histology & Cytology*: 141, 142, 344, 372, 573, 812, 855, 1139, 1281, 1518, 1677, 1814.  
*Physiology*: 138, 139, 140, 141, 142, 344, 573, 690, 933, 1007, 1269, 1300, 1539, 1708.  
*Taxonomy*: 946, 1013.  
*Ecology & Behaviour*: 1, 326, 343, 687.  
*Development*: 1640.  
*Palaeozoology*: 1722, 1759, 1797.

## (c) Reptilia

*General*: 1, 158, 389, 550, 1146, 1472.  
*Systematics*: 155, 946.  
*Morphology & Anatomy*: 492, 497, 527, 1170, 1177, 1404, 1517.  
*Histology & Cytology*: 185, 372, 401, 497, 1449.  
*Physiology*: 99, 401, 1009, 1100, 1636, 1728, 1729, 1628.  
*Biology & Development*: 1114, 1176, 1627.  
*Economic & Control*: 99, 389.

*Ecology*: 1.  
*Taxonomy*: 946.  
*Bionomics*: 665.  
*Zoogeography & Faunistic*: 1710.  
*Palaeozoology*: 1758.

## (d) Aves

*General*: 4, 45, 46, 47, 80, 110, 231, 232, 427, 580, 581, 583, 674, 974, 1041, 1073, 1130, 1258.  
*Systematics*: 222, 223, 224, 225, 1551, 1785.  
*Morphology & Anatomy*: 164, 419, 420, 624, 919, 920, 926, 1174, 1469, 1725, 1726, 1754, 1825, 1826.  
*Histology & Cytology*: 157, 208, 372, 418, 419, 421, 423, 425, 520, 605, 753, 754, 921, 922, 923, 1034, 1275, 1448, 1526, 1606, 1646.  
*Physiology & Biochemistry*: 11, 132, 207, 294, 295, 296, 372, 378, 379, 418, 422, 424, 501, 502, 503, 510a, 528, 582, 690, 781, 813, 814, 920, 923, 1086, 1096, 1098, 1099, 1103, 1174, 1260, 1448, 1488, 1528, 1614, 1617, 1717, 1718, 1793, 1795.  
*Biology & Development*: 11, 221, 294, 454, 508, 546, 810, 924, 1085, 1282, 1361, 1632, 1684, 1719, 1827.  
*Ecology*: 3, 4, 5, 43, 44, 45, 46, 47, 187, 221, 242, 404, 422, 427, 453, 454, 500, 508, 546, 640, 810, 928, 999, 1072, 1073, 1085, 1195.  
*Pathology*: 57, 110, 132, 335, 402, 526, 606, 607, 608, 944, 975, 1070, 1099, 1101, 1104, 1307, 1308, 1309, 1310, 1538, 1623, 1643.  
*Genetics*: 854, 1571.  
*Economic & Control*: 80, 86, 187, 231, 323, 582, 637, 638, 674, 975, 998, 1097, 1273, 1462, 1684, 1690.  
*Zoogeography & Faunistic*: 5, 222, 223, 224, 225, 441, 1072, 1353, 1616.

## (e) Mammalia

*General*: 137, 246, 373, 426, 452, 499, 556, 572, 626, 657, 658, 849, 856, 947, 978, 1050, 1060, 1064, 1089, 1295, 1331, 1388, 1521, 1523, 1567, 1574.

*Systematics*: 728, 1159.

*Morphology & Anatomy*: 102, 192, 193, 196, 197, 373, 432, 558, 572, 574, 575, 576, 577, 587, 645, 682, 712, 798, 841, 1042, 1044, 1045, 1089, 1168, 1169, 1200, 1270, 1284, 1439, 1544, 1545, 1546, 1547, 1799.

*Histology & Cytology*: 192, 196, 197, 218, 259, 372, 483, 604, 693, 872, 873, 904, 905, 918, 1043, 1169, 1394.

*Physiology & Biochemistry*: 8, 15, 16, 17, 18, 19, 85, 101, 118, 121, 123, 124, 129, 135, 136, 202, 203, 205, 216, 257, 258, 266, 267, 268, 295, 314, 315, 350, 371, 395, 396, 431, 449, 450, 510a, 529, 553, 554, 555, 570, 585, 586, 587, 588, 589, 604, 639, 654, 664, 690, 693, 708, 709, 710, 711, 712, 713, 734, 735, 736, 750, 752, 766, 777, 783, 817, 853, 927, 950, 952, 1000, 1040, 1061, 1069, 1067, 1068, 1083, 1084, 1107, 1127, 1128, 1129, 1147, 1148, 1154, 1167, 1199, 1202, 1203, 1221, 1230, 1233, 1239, 1259, 1262, 1268, 1272, 1285, 1302, 1303, 1338, 1339, 1389, 1391, 1392, 1399, 1440, 1461, 1479, 1480, 1481, 1504, 1522, 1540, 1552, 1562, 1568, 1569, 1575, 1578, 1601, 1610, 1611, 1626, 1630, 1791.

*Biology & Development*: 186, 237, 562, 927, 979, 1155, 1156, 1158, 1160, 1208, 1257, 1271, 1481, 1566, 1823.

*Ecology & Behaviour*: 2, 17, 136, 237, 238, 239, 240, 426, 451, 482, 499, 577, 579, 617, 626, 666, 667, 726, 727, 750, 1039, 1157, 1160, 1161, 1165, 1221.

*Genetics*: 137, 149, 682, 707, 1090, 1198, 1541, 1550, 1572, 1600, 1604.

*Pathology*: 56, 68, 79, 111, 130, 172, 178, 186, 219, 220, 269, 289, 292, 386, 387, 388, 412, 413, 432, 436, 551, 595, 603, 622, 647, 684, 719, 771, 780, 826, 907, 936, 960, 992, 1003, 1004, 1005, 1124, 1232, 1396, 1444, 1477, 1524, 1579, 1760.

*Zoogeography & Faunistic*: 1, 238, 239, 240, 451.

*Economic & Control*: 246, 265, 405, 482, 490, 579, 657, 658, 787, 826, 852, 1029, 1116, 1117, 1118, 1119, 1120, 1162, 1163, 1166, 1237, 1343, 1706, 1786.

*Pharmacology*: 269, 289, 595, 1393.

*Palaeozoology*: 1063, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1408, 1409, 1410, 1411, 1412, 1723.

