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Vol. 10  
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**BIBLIOGRAPHY OF INDIAN ZOOLOGY  
FOR THE YEAR 1967**

*Compiled by*

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## I. BRIEF REVIEW FOR

### INTRODUCTION

The following is a brief review of the work published in India and elsewhere during the year 1967 on the fauna of the Indian region. The review is followed by an extensive bibliographical list of about 2361 references, a subject index and a list of new taxa in the fauna of Indian region. The review contains 11 sections as follows :

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| 1. GENERAL         | 9. ARTHROPODA       |
| 2. PROTOZOA        | (a) Pauropoda       |
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| 4. PLATYHELMINTHES | (c) Crustacea       |
| (a) Trematoda      | (d) Arachnida       |
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| 5. ASCHELMINTHES   | 10. ECHINODERMATA   |
| (a) Rotifera       | 11. CHORDATA        |
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| 8. MOLLUSCA        | (e) Amphibia        |
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#### 1. GENERAL

Chacko and Rahim have dealt with the survey of fishing grounds in the Palk Bay and northern sector of the Gulf of Mannar off Rameswaram, Pamban and Mandapam. Chakrabarty and Banerjee have discussed otter trawling in the Hooghly estuary, West Bengal. Daniel and Premkumar have given an account of the distribution of the standing crop of zooplankton in the eastern sector of the Indian Ocean during July to September, 1962. Das has discussed the palaeartic elements in the fauna of Kashmir. Desai and Krishnakutty have studied the benthic fauna of Cochin backwater. George and Rao have published an annotated bibliography of the biology and fishery of edible crabs of India. Ghosh has discussed the documentation of Indian Zoology. Govindankutty and Nair have made preliminary observations on the interstitial fauna of the south west coast of India. Jonklass has investigated the spiny lobster resources of the Maldive islands. Krishnamurthy has studied the seasonal variation in the plankton of Porto Novo waters. Mushi has discussed insects as our friends and foes. Nair has

studied the settlement and growth of major fouling organisms of Cochin harbour. Nayar and Mahadevan have made ecological observations of sea anemones and fishes found in the Gulf of Mannar. Noor-Uddin has given an account of the zooplankton of Karachi coast with a note on their seasonal variations, fluctuations and distribution. Seradhira has published a bibliographical guide to the animal parasites and arthropod pests of Ceylon. Tripathi has published a report on survey of fish parasites and mortality of fish due to parasites and adverse environmental conditions in India.

Kapoor has discussed biogenetic theory. Misra and Behura have discussed type concept. Singh-Roy has given a recent approach on Goeth's vertebral theory of origin of the skull.

Gee has discussed the management of India's wild life sanctuaries and national parks.

#### 2. PROTOZOA

Nandi has studied comparative endocrinology of steroid hormones in vertebrates. Rao has discussed some practical aspects of biological control. Sitarajah has studied community metabolism in a tropical freshwater pond.

Das and Jha have described a new flagellate, *Giardia panthera* from the gut of a lion. Krishnamurthy has given morphological description of two new species of *Monocercomonoides* and one new species each of *Rhizomastix*, *Hexamitus*, *Hypotrichomonas* and *Monocercomonas*. Mitra and Ray have recorded a new flagellate, *Hexamitus calotesi* from the gut of *Calotes versicolor*.

Banerji has described seven new species of Foraminifera from the Lower Ariyalur Stages of Vridachalam and Pondicherry. Bhalla has given systematic account of four new species of Foraminifera from the Inter-trappean Beds of the Pangadi area. Mohan and Soodan have erected a new genus, *Inordinalosphaera* and described a new species. Parker has described a new species of planktonic Foraminifera, *Globanomalina praepumilio* while Samanta has described a new species *Discocyclina ramaraoi* from the early Tertiary sediments from Pondicherry. Sastry and Sastri have studied the Utatur Stage of the Cretaceous Formations of

Trichinopoly and described six new species. Nigrini has described three new species of Radiolaria found in the pelagic sediments from the Indian Ocean.

Bhatia and Pande have given morphological descriptions of two new species of coccidia, *Tyzzeria pellerdyi* and *Wenyonella pellerdyi* from wild Anatidae while Bhatia, Pandey and Pande have described a new coccidian, *Eimeria testari* from Indian Partridges. Dissanaiké has described a new species, *Lankesterella lainsoni* from the Ceylon mynah, *Acridotheres tristis melanostermus*. Ray and Sarkar have erected a new genus *Sivatoshella* and described one new species *S. lonchurae* and three new species of the genus *Dorisiella*. Das Gupta has described a new malarial parasite of the flying squirrel. Mohiuddin, Pal and Warsi have given a morphological account of a new haemoprotid from a saw-scaled viper *Echis carinatus*.

Qadri has described a new myxosporidian, *Thelohnellus shortti* from a freshwater fish, *Lebeo fimbriatus* from Andhra Pradesh. Wolska has erected a new genus of parasitic ciliate and described a new species, *Raabena bella*.

Srivastava has carried out morphological studies of the exogenous stages of *Eimeria labbeana*, a parasite of the common pigeon.

Mishra has carried out studies on coccidian oocysts and amœbic cysts in domestic pigs. Ratnakumar has described the genetics of mating and drug tolerance in *Didymium iridis*. Singh and Pande have described histological observations on some coccidial lesions of goats in India.

Sarojini and Nagabhushanam have given an account of comparative studies of the respiration of some free-living ciliates. Srivastava has described the role of nucleic acids and proteins in the life cycle of *Eimeria labbeana* with a review of the opinions regarding the DNA in macrogametocytes. Subbaiah and Amin have studied the effects of berberine sulphate on *Entamoeba histolytica*.

Krishnamurthy has studied seasonal variations in the plankton of Porto Novo water. Frerichs has studied the distribution and ecology of Foraminifera in the sediments of the Andaman Sea. Oba has described planktonic Foraminifera from the deep-sea cores of the Indian Ocean. Beyaeva has given an account of the distribution of planktonic Foraminifera tests over the bottom of the Bay of Bengal.

Tewari and Kumar have described Foraminifera from Nummulitic Beds of Nilkanth and organic remains from Tal Limestones, Garhwal Himalayas.

### 3. CNIDARIA

Alvarino has described a new Siphonophora, *Vogtia kuruae*. Mammen has given morphological description of four new hydroids collected from South India. Millard has described two new hydroids, *Hincksella indiana* and *Plumularia antonbruuni* from south-west Indian Ocean.

Mitra and Mookerjee have studied the biology of irradiated hydra.

Sanyal has given an account of cellular dynamics in the morphogenesis of *Hydra* during bud development and regulation. Sinha has studied endodermal cell-types in *Hydra*. Dutta has studied the energy requirement during regeneration in *Hydra*.

Menon and Panikkar have made preliminary studies of the distribution of planktonic Anthozoa in the Indian Ocean.

### 4. PLATYHELMINTHES

#### (a) TREMATODA

Pandey has described a new *Cercaria* from Lucknow.

Chakrabarti has described a new echinostome, *Singhiatrema tali* from the intestine of a turtle. Dwivedi has erected two new genera, *Kachugotrema* and *Cardiotrema* and described four new species — two of *Cardiotrema* and one each of *Kachugotrema* and *Ommatobrephus*. Gupta and Agrawal have described three new species, *Asymphyladora ritai*, *Macrolecithus indicus* and *M. trombi* from the intestine of freshwater fishes and a new species *Halipegus udaipurensis* from *Rana cyanophlyctis* while Gupta and Chakrabarti have described a new trematode, *Neopodocotyle lucknowensis* from the intestine of *Barbus sarana* and another new species from the intestine of a snake from Lucknow. Jain has recorded two new species, *Haplorchis gyanpuri* and *Psilorchis seekhpari* from birds while Karyakarte has described a new species of *Acanthostomum* from the snake, *Elaphe helena*. Mukherjee has described a new *Prosthogonium* from pigeon. Mukherjee and Chauhan have dealt with the amphistome trematodes recorded so far from Indian region and given diagnostic keys of the families, sub-families, genera and species. Mukherjee and Ghosh

have studied two new trematodes of the genus *Microphallus*. Premavati has erected a new genus, *Multigonotylus* and described two new species, *M. micropteri* and *Caecicola wakullata* from fresh-water fish. Rao and Ghafoor have described a new trematode *Ceylonocotyle thapari* from *Bos indicus*. Sinha and Hakim have described a new trematode of the genus *Postorchigenes* from the Indian house gecko, *Hemidactylus flaviviridis*.

#### (b) CESTODA

Capoor has described a new cestode *Taufikia ghoshi*. Khan and Habibullah have studied the avian cestode from Lahore, West Pakistan and described three new species, *Cotugnia streptopeli*, *Eugonodaeum pycnonoti* and *Pulluterina columbiae*. Mukherjee has described two new cestodes from babbler. Singh and Tandon have described a new cestode, *Mayheicia yamaguti* from a grey drongo.

Durrani and Hameed have studied the morphology of an interesting form of *Moniezia* sp. Gill and Rao have given an account of the biology and morphology of *Echinococcus granulosus*. Rao and Anantaraman have studied the biology and development of *Taenia hydatigena* while Singh and Rao have given an account of the development of *Taenia taenoaeformis* in cats.

### 5. ASCHELMINTHES

#### (a) ROTIFERA

Naidu has listed 12 species of rotifers from South India of which eight species are new records for the Indian sub-continent. Arora has studied the action of light on rotifers.

#### (b) GASTROTRICHA

Ganapati and Rao have reported for the first time the occurrence of 13 species of interstitial Gastrotricha in the beach sand of the Waltair coast and given description of these forms with reference to the tidal levels, the grain size of the sand, the temperature and salinity ranges of the environment. Kutty and Nair have studied the marine Gastrotricha from the interstitial fauna of the south-west coast of India.

#### (c) NEMATODA

Baqri and Jairajpuri have reviewed the genus *Thornenema* and erected a new genus *Willinema* and described a new species *W. indicum*.

Edward, Misra and Singh have described a new plant parasitic nematode *Paratylenchus micoletzkyi* and have given a morphological account of the allotype *P. nainianus*, while Khan, Prasad and Mathur have described two new species of *Paratylenchus* from India. Guiran and Siddiqi have dealt with the characters differentiating the genera *Zygotylenchus* and *Pratylenchoides*. Husain and Khan have erected two new subfamilies Seinurinae and Rotylenchulinae, a new genus *Paurotontella* and a new subgenus and described eight new species of the family Tylenchidae, six new species of the family Aphelenchoididae, four new species of the family Diphtherophoridae, four new species of the family Belondiridae and three new species of the family Neotylenchidae. Husain and Siddiqi have described three new soil nematodes of the genus *Discolaimium*. Jairajpuri has erected a new subfamily Cephalodorylaiminae and three new genera, viz., *Cephalodorylaimus*, *Durinema*, and *Qudsiella* and described three new species. Jairajpuri and Siddiqi have reviewed the genus *Oxyspirura* and described fourteen new species while Jairajpuri and Loof have studied the morphology of three new species of *Enchodelus* Thorne, 1939. Siddiqi and Franklin have described a new species *Aphelenchoides goodey* from South India while Siddiqi and Husain have made a taxonomic study of the genus *Alaimus* and given description of six new species. Siddiqi, Husain and Khan have studied two new species *Seinura propora* and *Aphelenchoides aligarhiensis* from North India. Siddiqi and Tailor have given a redescription of *A. bicaudatus*. Singh has described two new species of *Aphelenchoides* from North India while Sukul has described two new species of soil nematodes of the genus *Practinolaimus* from India.

Timm has described five new marine nematodes of the family Linhomocidae from East Pakistan (Bangladesh) and five estuarine nematodes from the Sunderbans.

Farooqui has erected a new family Mehdinematidae and a new genus *Mehdinema* and described a new species *M. alii* from the intestine of *Gryllus domesticus*; he has also erected another new genus *Branchinema* and described a new species *B. paratelpushi* from a fresh water crab; he has described new species *Rondonema thapari* from the millipede, two new species of the genus *Pseudonymus* from the intestine of an aquatic beetle, *Dytiscus marginicollis* and six new insect nematodes belonging to

the families Thelastomatidae and Oxyuridae. Timm has erected eight new genera — four belonging to the family Drilonematidae and four of the family Ungellidae; altogether he has described eighteen new species from the coelomic cavity of earthworms.

Agrawal has described a new species *Cucullanus pseudotropi* from the intestine of *Pseudotropius garua*, *Camallanus mastacembeli* from the intestine of *Mastacembelus armatus*, *C. inglisi* from the intestine of *Rana tigrina* and *C. bufonis* from the intestine of *Bufo* sp. Dissanaiké has described a new species, *Pelecitus ceylonensis* from crows in Ceylon. Johnson has described two new oxyurid nematodes while Johnson and Khera have recorded observations on the taxonomy of the genera *Pseudoproleptus* Khera, 1953 and *Notopteroides* Chakrabarty & Majumdar, 1962. Khanum has given the morphology of a new nematode, *Ancylostoma sindhensis* from the intestine of the common striped squirrel from lower Sind. Sood has described eight new nematodes from freshwater fishes from Lucknow.

#### 6. ACANTHOCEPHALA

Rai has given the morphological description of one new species each of *Acanthogyrus*, *Pallisentis* and *Raosentis*. Sahay, Nath and Sinha have described a new species of *Pallisentis* from a hill-stream fish *Lepidocephalichthys guntea*.

#### 7. ANNELIDA

Kirkegaard and Santhakumaran have described a new polychaete, *Cirriiformia limnoricola* associated with marine wood-borers. Rao and Ganapati have reported the occurrence of eight species of microscopic interstitial polychaetes in the sandy beach of Waltair coast.

Costa has carried out systematic study of freshwater Oligochaeta from Ceylon.

Jayadeb Babu has recorded for the first time two species of brackish water leeches *Zeylanicobdella arugamensis* and *Pterobdella amara* ectoparasitic on fishes from the Pulicat Lake.

Krishnamorthi and Krishnaswamy have discussed the osmotic and ionic regulation in polychaetes. Nayar has studied neuroendocrinology of annelids. Rajulu and Krishnan have discussed the possible occurrence of hyaluronic acid in the cuticle of the earthworm *Megascolex mauritii* while Talesara has

made histochemical study of the body wall muscles of the leech *Hirudinaria granulosa*.

#### 8. MOLLUSCA

Ray has described two new gastropods *Stagnicola* (*Stagnicola*) *tungabhadraensis* and *Viviparus zilchi* from India. Ronchetti has described two new fossil gastropods one each of the genera *Plesioptyxis* and *Dalmatea* from Pakistan. Sastry and Matsumoto have recorded the occurrence of *Meloicoceras* in Trichinopoly Cretaceous.

Dance has described two new species of *Pisidium* from Himalaya. Ray has described two new bivalves *Corbicula krishnaea* and *Indonaiia khadakraslaensis* from Maharashtra. Ronchetti has described a new fossil bivalve *Horiopleura desioi* from Pakistan.

Burges has described a new species of loliginid squid from the Indian Ocean.

Dinamani has studied the variation in the stomach structure of the Bivalvia. Joshi and Bal have given an account of the nervous system and circulatory system of the clam *Katelysia marmorata* (Lam.).

Durrani and Chaudhry have studied the life cycle of *Indoplanorbis exustus* under controlled conditions.

Nagabhushanam and Murti have studied the effect of salinity on the developmental stages of *Chiton granoradiatus*. Patil and Bal have recorded the seasonal gonadal changes in adult freshwater mussel *Parveysia favidens* var. *macens* (Benson).

Nair has recorded the vertical distribution of marine wood-boring animals in Cochin Harbour. Roonwal has dealt with the wood-boring teredinid shipworms of mangroves in the Sunderbans.

#### 9. ARTHROPODA

##### (a) PAUROPODA

Schubart has described ten new species of Pauro-poda from Pondicherry.

##### (b) MYRIAPODA

Chowdaiah has studied the chromosomal cytology of Diplopoda and discussed the abnormal sex chromosome behaviour in the male of *Thyropygus*

sp. Das, Nair and Jacob have dealt with the occurrence and control of *Harpurostreptus* sp., a millepede pest of cultivated crops in Kerala. Rajulu has studied the blood proteins and the physiology of the heart of *Cingalobolus bugnioni*; he has also given an account of the antennal pulsatile organs in *Scolopendra morsitans*.

(c) CRUSTACEA

(i) Branchiopoda

Ueno has described a new Conchostraca, *Cyzicus nepalensis* from Nepal.

(ii) Ostracoda

Hart, Nair and Hart have erected a new subfamily *Microsyssitriinae* and a new genus *Microsyssitria* and described a new species *M. indica* commensal on a woodboring marine isopod from India. Guha has described two new fossil ostracods from the Lower Miocene of Saurashtra. Kornicker has described a new myodocopid ostracod *Euphilomedes arostrata* from Maldive Islands, Indian Ocean.

(iii) Copepoda

Grice and Hulsemann have carried out detail studies of Bathypelagic calanoid copepods of the western Indian Ocean, erected a new genus *Rhinomaxillaris* and described eighteen new species.

Bozic has described a new harpacticoid copepod from India while Rao has described the life history of a new sand dwelling harpacticoid copepod. Raddiah has studied a new species *Anthessius mytilicolus* commensal on Indian mollusc *Mytilus viridis*.

Bonnet has described two parasitic caligoid copepods of the genus *Bomolochus* from the West coast of India. Cressey has revised the family Pandaridae and described one new species of the genus *Dinemoura* of the same family, two new species of *Eudactylina* and one new species of *Nemesis* of the family Eudactylinidae. Kabata has erected a new genus *Proclavellodes* and described a new species *P. pillai* from South India. Pillai has given a description of a new species of *Anuretes* and comments on the validity of a few caligoid genera. Thomas has described a new parasitic copepod *Caligus krishnai*.

(iv) Cirripedia

Newman has erected a new genus *Tetraclthamalus* and described a new species *T. oblitteratus* from Indian Ocean.

(v) Malacostraca

Bourdon has described a new parasitic isopod *Metaphryxus bifidus*. Chhapgar has described two new species of *Squilla* from Bombay. David has described a new soil isopod *Philoscia sacchari* damaging sugarcane buds in Tanjore district. George and Rao have recorded a new species *Metapeneus alcocki*. Guinot has described a new decapod *Medaeops edwardsi*. Lomakin has described three new species of Cumacea from Indian Ocean. Mohamed, Rao and George have studied the postlarvae of penaeid prawns of southwest coast of India and given a key to their identification. Prasad has described a new fossil decapod from the Fuller's Earth deposits of Kapurdi, Rajasthan. Silas and Mathew have given the morphology of a new euphausiid from Indian seas. Shenoy has described a new decapod of the genus *Upogebia* of the family Callinassidae.

Agrawal has given an account of the feeding habit and digestive system of *Hyperia glaba* and feeding appendages and the alimentary canal of *Cyamus ovalis*. Satija and Bajaj have given morphological and histological descriptions of the brain of *Paratelphusa masoniana*.

Alikunhi has given an account of the post-larval development, moulting and growth of the common stomatopods of the Madras coast. George has recorded his observations on the biology and fishery of the spiny lobster, *Panulirus homarus* (Linn.) and published a synopsis of biological data on the penaeid prawn *Metapanaeus dobsoni* and *M. affinis*. Kunju has recorded some aspects of the biology of *Solenocera indicus*. Mohamed has published a synopsis of biological data on the Indian prawn *Panaeus indicus* and *P. monodon*. Raman has recorded his observations on the fishery and biology of the giant freshwater prawn *Macrobrachium rosenbergii* de Man. Rao has studied the maturation and spawning of the penaeid prawns of the southwest coast of India. Senoy and Sankolli have studied the larval development in *Anomura*.

Agrawal and Taygi have studied the respiratory behaviour of the freshwater crab *Paratelphusa*

*masoniana* under different conditions. Agrawal, Taygi and Goel have described the pharmacology of the heart of freshwater crab *Potamon martensi* Woodmason while Agrawal, Taygi and Sharma have studied the physiology of digestion of *P. martensi*. Nagabhushanam and Rao have studied the endocrine control of white chromatophores of the crab *Uca annulipes* while Nagabhushanam and Sarojini have given an account of endocrine regulation of the proximal retinal pigment in the hermit crab *Diogenes bicristimanus*. Nagabhushanam and Vasanta have described the physiology of the red chromatophores of the prawn *Caridina weberi*. Ramamurthi has studied the oxygen consumption of a freshwater crab *Pratelpusa hydrodromous* in relation to salinity stress. Rao has carried out studies (i) on the mechanism of response of the chromatosomes of the crab *Ocyropsis macrocera* to chromatophorotropins, (ii) on the differentiation of crustacean chromatophorotropins, (iii) on the differentiation of chromatophorotropins of the crab *Ocyropsis macrocera* and (iv) on responses of crustacean larval chromatophores to light and endocrines.

Southward has studied the ecology and cirral behaviour of a new barnacle from the Indian Ocean.

Banerji and George have discussed the size, distribution and growth of *Metapenaeus dobsoni*. Prasad and Tampi have given a report of the phyllosomas of the Indian Ocean collected by the Dana Expedition 1928 to 1930.

#### (d) ARACHNIDA

##### (i) Opiliones

Suzuki has described two new species of Opiliones, *Adungrella atrorubra* and *Verpulus kanoi* from Nepal.

##### (ii) Chelonithida

Beier has erected a new genus *Stenochelifer* and described ten new Pseudoscorpions from India.

##### (iii) Scorpionida

Venkateswara Rao has described the feeding apparatus in the scorpion *Heterometrus fulvipes*. Basu and Venkatachari have given an account of certain anatomical features of the ventral nerve cord of the scorpion *H. fulvipes*.

Kaur and Kanungo have dealt with the metabolism of the muscle of the scorpion. Khan and Sinha have studied neurosecretion in adult female scorpion *Buthus tammulus*. Mathew has studied the hormonal control of reproduction in a scorpion while Padmanabhanaidu has dealt with the perfusion fluid for the scorpion *Heterometrus fulvipes*. Singh has studied seasonal changes in the glycogen and lipid contents of the scorpion *Palamnaeus bengalensis*.

#### (iv) Pentastomida

Nair has described a new species *Raillietiella piscator* from the water snake *Tropidonotus piscator*.

#### (v) Acari

Aoki has made a preliminary revision of the family Otocepheidae and described two new species of the genus *Dolicheremaeus* from Nepal. Bhattacharyya has described three new mites. Cook has published a monographic work on water mites of India, erected eleven new Genera and seven new subgenera and described one hundred and thirtyseven new species from India. Fain has described one new species belonging to the family Glycyphagidae from Burma. Ghai and Menon have carried out taxonomic studies of Indian mites of the family Phytoseiidae and described seven new species while Muma has erected a new genus *Cydnosius* and described five new species of the family Phytoseiidae. Traub and Nadchatram have described four new species of chiggers of the subgenus *Leptotrombidium* from the mountains of West Pakistan.

#### (vi) Araneida

Tikader has described a new species of spider of the genus *Seytodes* from Shillong and three new species of Salticidae spiders from Himalaya. He has studied the biology of some Indian spiders and published the spider fauna of Khasi and Jaintia Hills, Assam.

#### (e) INSECTA

##### (i) General

Chari has dealt with the instrumentation for measuring some elastic properties of insect cuticle. Costa and Fernando have discussed the food and microfauna in Maha Oya, a small mountainous stream

at Peradeniya, Ceylon. Raghavan, Wattal, Bhatnagar, Choudhury, Joshi and Krishnan have given a detailed account of the present status of susceptibility of arthropods of public health importance to insecticides in India. Saini has studied the low temperature tolerance of some insects. Sen Gupta has carried out studies on tissue culture in insects. Singh has given an account of general conspectus of high altitude insects from the North-west Himalaya. Wattal and Srivastava have described the ectoparasite fauna of small mammals and domestic animals, in the neighbourhood of Alwar city, Rajasthan.

### (ii) Collembola

Mitra has erected a new genus *Yosia* of the Indian spring tail and has described a new species. Prabhoo has discussed the microgeographic variations in Collembola.

Sharma has studied the biology of *Isotoma divacea*; in another paper he has described the bionomics of *Tomocerus vulgaris*.

Choudhuri and Roy have given an account of the quantitative composition of the collembolan fauna of some uncultivated fields in Nadia district, West Bengal with a correlation between monthly population and individual soil factor.

### (iii) Ephemeroptera

Peters has given a systematic account of a new species *Prosopistoma indicum* from Kerala and another new species *P. lieftinki* from Ceylon. While studying the mayfly nymphs of Rawalpindi district, West Pakistan, Rashid Ali has described seven new species.

### (iv) Odonata

Mishra and Pande have studied the matacercaria of *Prosthogonimus putschkowskii* in *Syspstrum decoloratum* and also recorded his observation of its development in chicks. Srivastava has described the morphology of the head of *Ischnura senegalensis*.

### (v) Plecoptera

Aubert has given systematic account of thirtyfour species of Plecoptera belonging to the family Nemouridae from Assam. Zwick has erected a new genus *Plesioperla* and described a new species *P. assamensis* from Assam.

### (vi) Orthoptera

Bhowmik has described five new species of *Scanaipodus* and one new species of each of *Loxoblemmus* and *Gymnogrillus*.

Manna has reviewed the cytological analysis of the sex chromosomes from testis cells of grasshoppers. Manna and Mazumder have studied the evolution of caryotype in an interesting species of grasshopper *Tristeria pulvinata* Uvarov. Rahim and Rajasekarasetty have described nuclear phenotype of *Locusta migratoria*.

Banerjee, Banerjee and Raychaudhuri have given an account of bacterial flora in the caeca and midgut of the grasshopper *Gessonula punctifrons* and their role in the digestive process. Bhatia and Chandra have studied the effect of food plants on colour, structure and size of faecal pellets of the desert locust *Schistocerca gregaria*. Dogra has studied the morphological abnormalities in the neurosecretory system of the mole cricket *Gryllotalpa africana*.

### (vii) Dermaptera

Bhardwaj and Kapoor have described three new species of Dermaptera. Kapoor has erected a new genus *Thekalabis* and described two new species.

Bharadwaj has studied the post-embryonic development of the cervicothoracic skeleton and muscles of *Anisolabis (Euborellia) annulipes*. Bhatnagar has given an account of comparative development of metathoracic wing-pads in the apterous earwing, *Euborellia annulipes* and the winged *Labidura riparia*. Singh has studied the early embryonic development of gonads in *Labidura riparia*.

Kadam has studied the physiology of digestion in Indian earwing *Labidura riparia*.

Kapoor has described the zoogeography of Indian Dermaptera.

### (viii) Dictyoptera

Das Gupta has described the chromosome complement and their behaviour during meiosis in the male *Corydia petiverana graveleyi*. Gupta and Southerland have made phase contrast and histochemical studies of spherule cells in cockroaches. Rajasekarasetty and Ramamurthy have given an analysis of male meiosis in *Periplaneta* sp. Satija and Singh have given a detail description of the

structure of the brain of *Pariplaneta americana*. Saxena and Saxena have studied the histology of the midgut epithelium of *P. americana* treated with pyrethrum.

Adiyodi and Nayar have studied the nature and behaviour of the conjugated proteins in the haemolymph of adult female *Pariplaneta americana* in relation to the ovarian cycle. Banerjee and Raychaudhuri have studied the effects of melathion on the histophysiology of malpighian tubules of *P. americana*. Dutta has studied ion regulation in the isolated hindgut of the cockroach *Byrsotria fumigata*.

#### (ix) Isoptera

Chatterjee and Thakur have given a systematic account of north-western Himalayan termite fauna with description of three new species; they have also described the morphology of the hitherto unknown imago caste of *Euhamitermes lighti* Snyder as well as of other castes.

Balasingappa has given an account of the developmental changes in the terminal abdominal segments in caste differentiation in six species of termites. Satija and Walia have given a description of the brain of *Odontotermes horni* Wasmann.

Banerjee has studied the distribution of alkaline phosphatase in the castes of the termite *Odontotermes redemanni* (Wasmann) and its role in caste formation.

Roonwal and Chhotani have given an account of Indian wood destroying termites. Sen Sarma and Chatterjee have studied the effects of relative humidity on the longevity of workers of *Microcerotermes besoni* Snyder under starved condition.

#### (x) Psocoptera

Lee and Thornton have erected two new genera *Allocacillius* and *Scytopsocopsis* belonging to the family Pseudocacillidae and described three new species from Darjeeling, West Bengal.

#### (xi) Mallophaga

Hajela and Tandon have described a new Mallophaga *Ardeicola dennelli* parasitising on Black Ibis at Lucknow.

#### (xii) Hemiptera

Borchfenius has erected three new genera and described six new species of the family Diaspididae.

Drake and Mohansundaram have described two new species each of the genera *Naochila* and *Stephanitis* from Coimbatore. Ghauri has erected a new genus *Amrasca* and described a new species *A. splendens*. Mahmood has erected a new genus *Hardiana* under the family Cicadellidae and described a new species from Tinsukia, Assam. Chopra has dealt with the higher classification of the family Rhopalidae and revised the genus *Arhyssus*. Verma has erected a new genus *Aspidophicrodon* and described a new species *A. harvensis*. Wygodzinsky in a monograph of the subfamily Emesinae (Reduclidae) has erected three new genera and described four new species from India and one new species from Ceylon.

Bhargava has studied the morphology musculature and innervation of the reproductive organs of *Lethocerus indicum*. Ghauri has described the male genitalia of *Sepullia murrayi*. Goel has dealt with the morphology of the thorax of adult *Coridius janus*. Kumar has studied the morphology of the reproductive and alimentary system of the Aradoidea; he has in another paper, also dealt with the aspects the morphology and relationships of the superfamilies Lygaeoidea, Piesmatoidea and Pyrrhocoroidea. Kurup has given an account of the anatomy and histology of the alimentary canal of the pond skater *Gerris spinolae*. Rastogi has given an account of the oesophageal valve of some terrestrial aquatic Heteroptera. Srivastava and Sinha have studied the development of the accessory eyes of *Centrocoocus insolitus* Green.

Bhargava has given description and distribution of the neurosecretory cells in the brain and ventral ganglia of *Lethocerus indicum*; in another paper, he has dealt with the histomorphology of the central nervous system of *L. indicum*. Dikshit has studied the cytology of *Rastrocoocus iceroyides* (Green). Satija and Dindsa have studied the histology of the brain and optic peduncle of *Rhopalosiphum pseudobrassicae* Davis. Dogra has given a detailed account of his studies on the neurosecretory systems of *Dysdercus koenigii* and *Ranastra elongata* and in another paper he has described the neurosecretory system of Heteroptera and the role of the aorta as a neurohaemæ organ. Ramamurty and Krishnanandam have given a morphological and histochemical account of the scent gland in the pond-skater *Gerris spinolae*.

El Khidir has given an account of ecological studies on *Aleyrodes brassicae* Walk. Qadri has carried out phylogenetic study of Auchenorrhyncha.

## (xiii) Thysanoptera

Ananthakrishnan has erected five new genera and one new subgenus and described six new species from India. Ananthakrishnan and Jagadish have given morphological description of five new species of the genus *Chloethrips* from South India. Bhatti has erected a new genus *Ajothrips* and described two new species from West Bengal.

## (xiv) Neuroptera

Aspöck and Aspöck have described a new Neuroptera *Aleuropteryx vartianorum* from Pakistan.

Chitnis has studied the anatomy of the alimentary canal of the larva of *Myrmeleon singulare*.

## (xv) Mecoptera

Ramamurthy has given an account of the cytoplasmic inclusions of the trophocytes in the ovary of the scorpion fly *Panorpa communis*.

## (xvi) Lepidoptera

Boursin has erected a new genus *Ebertidia* of the subfamily Hadeninae and described a new species *E. haderonides* from Nepal. Eliot has described two new species from Assam and four new species from Burma of the genus *Ypthim*. Verma has erected a new fossil Lepidoptera of the genus *Kashmiroblatta* and described a new species from Kashmir. Watson has described a new subspecies *Oreta vatama luculenta* from Kashmir.

Bhattacharjee and Raghavan have dealt with some abnormal variation in the wing of *Prodenia litura* Fabr. Mathur, L. M. L. has described (i) the morphology of the head capsule and its appendages of *Stenothorus gilvifrons* Mulsant, (ii) the morphology of the nervous system of the noctuid larva *Prodenia litura* Fabr. and (iii) the morphology of the male reproductive system of *Syntomis cyssa* Cramer. Mathur, R. B. has studied the spiracular mechanism in the Indian Sann Hemp moth *Utetheisa pulchella* Linn. Murad has described the musculature of the sucking pump of *Spodoptera mauritia*. Srivastava has given an account of the nervous system of the head of *Prodenia litura* with description of the head nerves of its larva.

Ramakrishnan and Tiwari have studied the histological changes in *Plusia orichalcea* caused by

*Bacillus thuringiensis*. Vaidya has given an account of the neurosecretory cells in the brain of the first instar larvae of *Papilio demoleus*.

Baloch, Din and Ghani have described the biology and host plant range of *Oeobia verbascalis* Schiff. Danthararayana has studied the biology and control of the twig caterpillar *Ectropis bhurnutra* Wlk. on tea. Sah and Mehra have studied the bionomics of *Nephoteryx leucophaella*. Saxena has given an account of the life history and biology of *Leucinodes orbonalis*. Srivastava and Pandey have described the immature stages of *Tarucus theophrastus*. Vaidya has studied gastrulation in *Papilio polytes* Linn.

George has studied the effects of gamma radiation on fertility, mating and longevity of males of the oriental fruit moth *Grapholitha molesta*. Manshingh has recorded the changes in the free amino acids of the haemolymph of *Antheraea pernyi* during induction and termination of diapause. Mathur, L. M. L. has studied the food utilisation and digestion of major food nutrients in the lepidopterous larvae feeding on cauliflowers. Mathur, R. B. has studied the mode of ingestion in the Indian Sann Hemp moth *Utetheisa pulchella* Linn. Pant and Tracy has given an account of the variation of total free amino acids in the haemolymph of *Philosamia ricini* during metamorphosis. Ramamurthy and Majumdar have studied the heterosynthetic origin of protein yolk in *Delias encharis*. Varshney and Sundaram have studied the acidity in the gut of *Eblemma emabilis* larvae.

Joshi, Khan and Doval have recorded some new host plants of *Euproctis fraterna* Moore and its control on phalsa. Nair has recorded *Leucinodes orbonalis* Guen. as a serious pest of potato plants in Mysore State. Mathur, R. B. has studied the food selection behaviour of the fully grown larva of the Indian Sann Hemp moth *Utetheisa pulchella*. Patel and Patel have recorded the occurrence of *Daphnis nerii* Linn. on Sarpagandha in Gujarat. Ramachandran Nair and Rao have studied the introduction of *Copidosoma koehleri* Blanchard for the control of the potato tuber moth *Gnorimoschema operculella* (Zeller) in India.

Rawat has estimated the population of *Chilonellus Swinh.* in sorghum stubbles at Sehore.

Buttiker has recorded the eye-frequenting moths for the first time from India and Ceylon. Rawat

has recorded the incidence and distribution of *Selepa docilis* Butl.

### (xvii) Diptera

Ackland has described eleven new species belonging to the family Anthomyiidae from Nepal. Alexander has erected three new sub-genera and described one hundred and twenty three new species of Tipulidae from eastern India, while Chanthawanich and Delfinado have given a morphological account of a new species of *Loptoconops* from Nepal. Grover has described a new cecidomyiid *Stictodiptosis morindae* from India and dealt with the taxonomic characters of Cecidomyiidae. Hardy has erected a new genus *Paraceratitella* and described five new species of the family Tephritidae from Pakistan and three new species of *Bibio* from Nepal. Lewis has dealt with the phlebotomine sand-flies of West Pakistan and described a new species and a subspecies. Nayar has given a systematic account of seven new species of high altitude Syrphidae from North West Himalaya.

Dogra has studied the structure of the head, mouth-parts and their musculature in *Hippobosca maculata* Leach. Ipe has given a detailed morphological account of the external genital organs of male *Melanagromyza obtusa* and also described its nervous system and sense organs. Ranade has described the digestive system and circulatory system of the third instar larvae of *Musca domestica nebulosa*, while Satija and Sharma have discussed the differentiation of optic ganglia in *M. domestica*.

Chaudhuri and Jha have studied the genetics of natural populations of Indian *Drosophila ananassae*. Mukherjee has given a comparative account of the karyotypes and pattern of DNA synthesis in mosquitoes while Parkash has given an account of mutagenic effect of irradiated DNA in *Drosophila melanogaster*. Prakash has studied the chromosome interactions in *D. robusta*.

Ahmad has studied the development of the external male genitalia of the house-fly *Musca domestica* Linn. Grover has carried out histochemical studies of nucleolus and nucleolar extrusions in dipteran oogenesis. Satija and Sood have described the development of brain during postembryonic life of *Anopheles stephensi* Liston.

Grover has studied the biology of two Indian gall-midges. Parkash has given an account of association between mating speed and fertility in *Drosophila robusta*.

Baloch, Mohyuddin and Ghani have described the biological control of *Cuscuta* sp. Deoras and Bhaskaran have studied the neuroendocrine system in the house-fly *Musca nebulosa*. Rosen has studied the susceptibility of *Culex pipiens fatigans* larvae to insecticides in Rangoon.

Nayar has studied the endogenous diurnal rhythm of population in a mosquito population.

Krishnan and Halernkar have described the anopheline fauna of Andaman Islands.

### (xviii) Siphonaptera

Traub and Evans have described two new species of hystrichopsyllid fleas with notes on arched pronotal combs, convergent evolution and zoogeography.

Joshi, Bhatnagar and Wattal have studied the toxicity of some organophosphorous and carbonate insecticides to rat-flea larvae of *Xenopsylla cheopsis*.

### (xix) Hymenoptera

Abdurahiman and Joseph have erected three new genera of the family Agaonidae and described three new species from Delhi. Baliga has described a new species *Corioxenos raoi*. Gupta and Kamath have described seven new species of the genus *Listrogna-thus* while Gupta and Jonathan have given a systematic account of the two new species of the genus *Schreineria* belonging to the family Ichneumonidae from Delhi. Heinrich has dealt with Ichneumoninae of Burma and described nine new species and five new subspecies. Lal has described a new species of *Eucremastus* from Jhansi. Mackaur has described a new species *Areopraon antiquum* from West Pakistan while Nixon has described six new species of *Apanteles* from India. Ram and Subba Rao have given a revised key to Oriental species of *Goniozus* with a description of a new species from South India. Subba Rao has described three new species of encyrtids from New Delhi. Wiebes has given a redescription of Sycophaginae from Ceylon and India with designation of lectotypes and a world catalogue of the Otitesellini; and also described a new species *Sycoryctes religiosae* from Pusa.

Bahadur and Reddy have given an account of the structure and function of the rectal pads in Hymenoptera. Singla has given morphological description of corpora pedunculata of *Vespa orientalis* Linn.

Kanwar and Sethi have studied the histology and cytology of the venom gland of *Vespa orientalis*.

Qauum and Ahmad have studied the biology of *Apis dorsata* Fabr.

Ansari has described the process of egg laying in Idarninae. Batra has studied the behaviour and ecology of halictine bees of India. Phadke, Pant and Sinha have studied the foraging behaviour of *Apis indica* visiting flowers of sesame.

#### (xx) Coleoptera

Abdullah has erected a new genus *Palaeasemum* and described two new species of *Palaeasemum* and a new species of *Steriphodon*. Balthasar has described four new species of the genus *Aphodius* belonging to the family Aphodiidae from Nepal and Himalayas. Bielawski has given morphological account of three new species of the genus *Afissula* from Burma. Breuning has erected five new genera under the family Cerambycidae and described fourteen new species from eastern India, five new species from Bhutan and one new species from Burma. Damoiseau has described one new species *Eterozemus rubicundus* from Khasi Hills. Endrodi has described a new subspecies of the genus *Pentodon* from Pakistan while Jedlicka has described a new species *Graniger mandli* from Pakistan. Kjmotos has given an account of a list of chrysomelid species from Himalayas and Kashmir preserved in the Zoological Museum, Berlin and described two new species. Lopatin has given morphological description of a new subspecies of the genus *Chrysomela* and a new species of the genus *Antipa* from Pakistan. Petrovitz has erected a new genus *Microlontha* and described two new species each of the genus *Microlontha* and *Clipadoretus* from Pakistan. Rai has studied the morphology and taxonomy of Indian Bostrychidae and described a new species *Xylopsocus lesne* from Jharjra. Ueno has described a new species of *Trechus* from Nepal. Vazirani has reviewed Indian species of Haliplidae and described two new species of *Haliplus*.

Aggarwal has given an account of morphological and histochemical studies on oogenesis in *Callosobrunchus analis* Fabr. Arora, Pajni and Singh have studied the ambiguity of the abnormal male of *Callosobrunchus maculatus* Fabr. Gupta has described the digestive and reproductive systems of *Pseudomeloe miniacomaculata* while Gupta and Riley have studied the female reproductive system and histology of the ovariole of the asparagus beetle *Crioceris asparagi*. Sarin, Tembe and Saxena have given morphological description of the head capsule

of *Alphitobius diaperinus*. Verma has described the morphology of the alimentary canal and associated organs of *Eretes sticticus* Linn.

Sajni has given an account of histochemical and cytological studies on the ovarian development of *Auloeophora foveicollis*. Satija and Kaur have studied the growth of the body and the brain during post-embryonic life in *Callosobrunchus maculatus* Fabr.

Ahmad and Ghani have studied the biology of *Chilocorus infernalis*. Karnava has studied the biology of the Khapra beetle *Trogoderma granarium* Everts. Kapoor and Chaudhury have given an account of the life history of *Tribolium castaneum*. Patel, Patel and Vyas have recorded observations on the biology and control of white grubs in soil affecting groundnut in Gujarat.

Costa and Ganesalingam have studied the sensory physiology of the larva of the rhinoceros beetle *Oryctes rhinoceros* Linn. Nair, Karnavar and George have studied the larval fat body of *Oryctes* with particular reference to the cytochemistry of the proteinaceous globules. Qamar and Qayyum have studied the effect of different temperatures and relative humidities on the bionomics and mortality of *Tribolium castaneum*.

Subba Rao, Parshad, Ram, Singh and Srivastava have studied the behaviour and ecology of *Hypera postica* and listed its natural enemies.

Miyatake has listed the Coccinellidae from Nepal and Darjeeling district.

### 10. ECHINODERMATA

Datta Gupta has given a key to the genera belonging to the family Bonellidae (Echiuroidea). James has described the morphology of *Phyllophorus* (*Phyllophorella*) *parvipedes* from the Indian Ocean.

#### 1. CHORDATA

##### (a) URCHORDATA

Tokioka has described a new Ascidiacea *Botryllus compositus* from Rangoon.

##### (b) CEPHALOCHORDATA

Azariah has given biometric diagnosis of *Branchiostoma tattersalli* and redescribed and compared it with other Indian species of *Branchiostoma*.

Jayapaul has studied the histology of the blood vascular system of the cephalochordates of Madras coast.

(c) HEMICHORDATA

Berry and Gupta have given morphological account of Ordovician graptolites of the Kashmir Himalayas.

(d) PISCES

Dutta and Thankam have described two new species of trichiurid fish. Gibbs and Barbara have given systematics and zoogeography of the stomiatoid fishes *Chauliodus pammelas* and *C. solani* of the Indian Ocean. Graae has described a new species of paralepidid fish from Indian Ocean. Gupta has given an account of the morphology of two new species of ribbon fishes of the genus *Trichiurus* from the Hooghly estuarine system together with a key for the identification of different species while James has dealt with the ribbon fishes of India of the family Trichiuridae. Lalmohan has recorded *Muraenichthys schultzei* for the first time from Indian waters. Menon has discussed the taxonomy of *Puntius filamentosus* of South India and Ceylon. Mishra and Saxena have erected a new genus *Jhringrania* and described a new fossil fish *J. roonwali* from the Rajmahal Hills. Parameswaran, Selvaraj and Radhakrishnan have reviewed the Indian freshwater fishes of the genus *Ompok* Lacepede. Rasid and Chereshi have listed the fishes belonging to the families Lethrinidae, Pentapodidae, Sparidae, Mullidae, Monodactylidae, Pempheridae, Tonotidae and Keyhposidae. Srivastava has described a new species of freshwater fish of the genus *Hemiramphus* from Gorakhpur. Talwar and Chakrapani have described a new species of *Zebrias* and given a key to the identification of Indian species of this genus. Tint has given a key to *Stolephonus* spp. and *Thryssa* spp. of Indian Ocean.

Agrawal and Rastogi have described the sound producing apparatus of *Macrones vittatus* (Bloch). Bonnel and Joychandran have given an account of the structural components of the adhesive disc of *Echeneis* and their functions. Chitray has given an account of the morphology of the digestive organs of *Bagarius bagarius*. Das and Daftari have studied the skull of *Oreinus sinuatus* Heckel and discussed the problem of relationship between the genera *Schizothorax* and *Oreinus*. Gauba has

studied the skull of the Indian sisorid catfish *Erethistes pussilus*. Khanna and Singh have described the morphological peculiarities of the valvule cerebelli in some teleosts. Mahajan has discussed the inter-relationship of the gas bladder, weberian apparatus, membranous labyrinth in *Sisor raddophones*; has also studied the adaptation and natural relationship of the vertebral column, median fins and their musculature in the same species. Nag has studied the functional morphology of the caudal region of certain clupeiform and perciform fishes with reference to taxonomy. Nair has studied the male reproductive system of some siluroid fishes. Prasada Rao has studied the structural variations in the brain of teleosts and their significance. Rastogi has described the urinogenital organs of the Indian catfish *Mystus tengara* (Ham.). Saxena has described the structure of the brain and its correlation with the habits and habitats in *Notopterus notopterus* and *Amphipnous euchia*. Tilak has studied the osteocranium and the weberian apparatus of *Amblyceps mangois* in relation to taxonomy.

Dutta Munshi and Singh have studied the cranial muscles and the natural mechanism of opening and closing of mouth in two Indian major carps. Khanna and Singh have studied the histology and histochemistry of the saccus vasculosus in some teleosts. Moitra and Bhowmik have studied the functional histology of the alimentary canal of the young *Catla catla* while Shrivastava has studied the histomorphology and seasonal cycle of the spermary and sperm duct in a teleost.

Balan has dealt with the length-frequency distribution and biology of *Leignathus bindus*. Chakrabarty and Singh have discussed the fishery and biology of the freshwater major carp *Cirrhina mrigala*. Krishnamurthy has studied the development of the corpuscles of stanius in the anabantid teleost *Colisa lalia*. Kuthalingam has described the life history and feeding habits of *Mugil cephalus*. Radhakrishnan has studied the age and rate of growth of the Indian mackerel while Radhakrishnan and Alikunhi have given an account of growth and propagation of common carp *Cyprinus carpio*. Saigal has studied the fishery and biology of the commercial catfish of the Ganga river system with particular reference to maturity, spawning and food of *Mystus (Osteobagnus) aor*. Srivastava have studied the

development of neuromasts in *Cirrhina mrigala* and *Ophicephalus (Chana) punctatus*.

Gorbunova has studied the reproduction of scombroid fishes in the Indian Ocean. Mathur has described the anaerobic respiration in a cyprinoid fish *Rasbora daniconius*. Rai has given an account of cyclical changes in the ovary of *Tor (Barbus) tor*. Sinha and Rastogi have discussed the cyclical changes in the ovarian activity of the freshwater mud-eel *Amphipnous cuchia*. Sundararaj and Nayar have described the effects of exogenous gonadotrophins and gonadal hormones on the testes and seminal vesicles of hypophysectomized catfish *Heteropneustes fossilis*.

Bensam has discussed the differences in food and feeding adaptations between juveniles and adults of the Indian oil sardine *Sardinella longiceps*. Kagwade has given an account of food and feeding habits of the Indian oil sardine *S. longiceps*. Kuthalingam has given an account of food and feedings habits of silver pomfrets. Sinha and Jones have discussed the food of the freshwater eels and their feeding relationship with the salmonids.

Sinha Roy has discussed the recent approach on Goeth's vertebral theory of origin of the skull. Nair has discussed the probable lines of evolution of the male reproductive system in some silurid fishes.

Gupta and Denison have studied the Devonian fishes from Kashmir. Kuthalingam has given an account of the distribution of pomfrets and their abundance in various fishing grounds. Venkateswarlu has described the gobioid fauna of Vellar Estuary, Porto Novo.

#### (e) AMPHIBIA

Ganguly and Ray have carried out a morphological, cytochemical and experimental study on caudal neurosecretion in *Bufo melanostictus*. Grewal and Das Gupta have studied skeletal polymorphism and genetic drift in *Rana cyanophlictis*.

Banerjee and Banerjee have given an account of seasonal variations of erythrocyte number of haemoglobin content in the common toad *Bufo melanostictus*. Boral and Biswas have given an account of the body fluid and hematological changes in castrated toad. Diwan has studied the mechanism of action of colchicine on embryos of *Microhyla ornata*. Govindappa and Swami have described the electrophoretic characteristics and their relationship to the

enzyme activities of subcellular components in the amphibian muscle fibre. Gupta and Bhide have studied the nature of adrenergic receptors on the skin melanophores of *Rana tigrina*. Prasad has given an account of radioautographic study of nucleic acid and protein synthesis in melanocytes of *Amphiuma* liver.

Senanayake has studied the status of the Ceylon frog *Rhacophorus nasutus* (Gunther).

#### (f) REPTILIA

Annamalai has studied the morphology and histology of the ovary, the corpus luteum and the testes of *Mabuya carinata*. Majumuria has described the functional anatomy of the copulatory organ of *Lissemys punctata*. Thiruvathukal and Thiruvathukal have described the gross morphology and microanatomy of the pancreas of the freshwater turtle *Chrysemys picta*.

Chatterji and Thapliyal have studied the thyroidectomy and egg laying in the chequered water snake *Natrix piscator*. Garg, Panda and Thapliyal have studied in detail the development of eggs of the garden lizard *Calotes versicolor* while Pandha and Thapliyal have given an account of the egg laying and development in the garden lizard *C. versicolor*. Sanyal and Prasad have studied the reproductive cycle of the Indian house lizard *Hemidactylus flaviviridis*. Singh has discussed the factors involved in the regulation of the sexual cycles of lizards. Yadav has published a note on the breeding of Indian python *Python molorus* at Jaipur Zoo.

#### (g) AVES.

Das and Biswas have given an account of the microanatomy of oesophagus, proventriculus, gizzard, intestine, pancreas and liver of the domestic duck *Anas boscas*.

Ghosh has given an account of histochemical study of the cells of the alimentary tract of the domestic pigeon. Ray Chaudhury has studied the mitotic and meiotic chromosomes of the koel *Eudynamis scolopacea scolopacea*.

Andrews and Naik have published the observations of the body weight and the thyroid and gonadal cycles of the jungle babbler. John and George have studied cyclic histochemical changes in the hypothalamohypophysial neurosecretory system of the

migratory wagtails *Motacilla alba* and *M. flava* while Khan and George have given an account of histochemical demonstration of mitochondrial localization of acid and alkaline phosphatases in skeletal muscle. Medda and Bose have studied the lipid metabolism in differentiating central nervous system in chick. Thapliyal and Pandha have described the thyroid and the hypophysial gonadal axis in the female spotted Munia *Uroloncha punctulata*; they have also studied thyroidectomy and gonadal reconde-scence in Lal Munia *Estrilda amandava*.

Collias and Collias have given an account of the field study of the red jungle fowl in North-central India.

Abdulali has given a list of birds of Nicobar Islands while Biswas has given a list of birds of Nepal. Bertioz has recorded observations on the avifauna of Ceylon. Donahue has published a note on a collection of birds of Delhi. Norris has published a field guide to the birds of Ceylon. Rao has recorded the occurrence of the brown flycatcher *Muscicapa latirostris* in the Gir Forest while Riols has reported occurrence of *Vanellus gregarius* in India. Singh has reported the appearance of the pinkheaded duck *Rhodonessa caryophyllacea*. Wynell-Mayow has made the first record of the occurrence of the wire-tailed swallow *Hirundo smithi* in northern Ceylon.

#### (h) MAMMALIA

Agrawal has dealt with the morphological structure of the skulls of Oriental rodents and has given tentative keys for the identification of super-families, families, genera, species and subspecies of Oriental rodents based on mandible characters.

Bhatnagar has described the morphology of bacula of some Indian Megachiroptera. Ghosal has given a comparative morphology of the somatic innervation of the antebrachium and manus, crus and pes of the domestic animals. Ramakrishnan and Prasad have described the changes in the male reproductive organs of *Loris tardigradus lydekkerianus*.

Gupta has described the histology and musculature of plagiopatigium in bats while Guray has dealt

with the cytochemical study of interstitial cells in the bat ovary. Manna and Talukdar have studied the chromosomes of bone marrow cells of the Indian house shrew *Suncus murinus*. Thornton, Young and Sankhala have studied the genetics of the white tigers of Rewa.

Bhattacharya, Gupta and Moulick have dealt with the length of gestation period in large white pigs. David has published note on the breeding of the large Indian civet *Viverra zibethica* at Ahmedabad Zoo. Krishna Gowda has published note on the breeding of caracal lynxes *Felis caracal* and the rhinoceros *Diceros bicornis* at Mysore Zoo. Sankhala has studied the breeding behaviour of the tiger *Panthera tigris* in Rajasthan and Yadav has studied the breeding of the smooth-coated Indian otter *Lutra perspicillata* at Jaipur Zoo.

Bhandari, Velhankar and Sane have dealt with histopathological study of tubercular endometritis with consequent effects on cervix. Gurrya has published cytochemical observations concerning the formation, release and transport of lipid secretory products in the interstitial cells of the rabbit ovary. Luktuke and Roy have studied cervical mucous pattern in relation to fertility in bovines. Madan and Razdan have dealt with the oestrus, functional activity of ovaries and ovulation in dairy cattle. Sahni and Roy have dealt with the sexual activity of Bikaneri sheep and Barbari goat and its conception rate through artificial insemination. Saxena and Singh have dealt with the preservation of ram spermatozoa and bull semen.

Hla Aung has studied the behaviour of red goral *Nemorhaedus cranbrookii* and the Burmese takin *Budorcas taxicolor* at Rangoon Zoo. Jone has dealt with the status of *Dugong dugon* in the seas around India and observed its behaviour in captivity. Purohit has dealt with the ecology of small desert mammals. Tanaka has studied the social structure of Nilgiri langurs.

Mountfort has discussed the wildlife of Pakistan. Taber, Sheri and Ahmad have described the mammals of Lyallpur region, West Pakistan.

## II. BIBLIOGRAPHY OF INDIAN ZOOLOGY FOR 1967.

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### III. LIST OF NEW TAXA

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

- Phylum I PROTOZOA  
 Class 1. Mastigophora  
 Order (a) Rhizomastigida  
 Family : Mastigamoebidae
1. *Rhizomastix ranee* Krishnamurthy  
 Order (b) Polymastigida  
 Family (i) Hexamitidae
  2. *Giardia panthera* Das & Jha
  3. *Hexamitus calotesi* Mitra & Ray
  4. *Hexamitus hoari* Krishnamurthy  
 Family (ii) Polymastigidae
  5. *Monocercomonoides mehdii* Krishnamurthy
  6. *Monocercomonoides singhi* Krishnamurthy  
 Order (c) Trichomonadida  
 Family : Monocercomonadidae
  7. *Hypotrichomonas osmaniae* Krishnamurthy
  8. *Monocercomonas gopali* Krishnamurthy  
 Class 2. Sarcodina  
 Order (a) Foraminiferida  
 Family (i) Anomalinidae
  9. *Anomalina indica* Sastry & Sastri
  10. *Anomalina madraszi* Banerji
  11. *Anomalina submadraszi* Banerji
  12. *Anomalina vridhachalensis* Banerji
  13. *Cibicides blanfordi* Banerji.
  14. *Cibicides purobi* Banerji
  15. *Heterolepa pondi* Banerji  
 Family (ii) Amphisteginidae
  16. *Discorbis toddae* Bhalla  
 Family (iii) Nonionidae
  17. *Nonion kingi* Bhalla  
 Family (iv) Globigerinidae  
*Inordinatosphaera* Mohan & Soodan  
 (n.g.)
  18. *Inordinatosphaera indica* Mohan & Soodan  
 Family (v) Cycloclypeidae
  19. *Discocyclina ramaraoi* Samanta  
 Family (vi) Silicinidae
  20. *Ammodiscus utaturensis* Sastry & Sastri  
 Family (vii) Rotalidae
  21. *Eponides utaturensis* Sastry & Sastri
  22. *Valvulinerai ramaraoi* Sastry & Sastri  
 Family (viii) Lagenidae
  23. *Lenticulina raoi* Sastry & Sastri  
 Family (ix) Heterohelicidae
  24. *Rectogumbelina nagappai* Sastry & Sastri  
 Family (x) Verneuilinidae
  25. *Textularia ariyalurensis* Banerji
  26. *Protelphidium adamsi* Bhalla
  27. *Protelphidium duddukurvense* Bhalla
  28. *Golbanomalina praepumilio* Parker  
 Order (b) Radiolarida
  29. *Actinomma medianum* Nigrini
  30. *Spongaster tetras irregularis* Nigrini  
 (subsp. n.)
  31. *Lamprecyclas maritatis polypora* Nigrini  
 subsp. n.  
 Class 3. Sporozoa  
 Order : Coccidida  
 Family (i) Eimeriidae
  32. *Dorisiella chakrabartyei* Ray & Sarkar
  33. *Dorisiella mandali* Ray & Sarkar
  34. *Dorisiella passeris* Ray & Sarkar
  35. *Eimeria teetari* Bhatia, Pandey & Pande
  36. *Lankesterella tainsoni* Dissanaik  
*Sivatoshella* Ray & Sarkar (g. n.)
  37. *Sivatoshella lonchurae* Ray & Sarkar
  38. *Tyzzeria pellerdyi* Bhatia & Pande
  39. *Wenyonella pellerdyi* Bhatia & Pande  
 Family (ii) Haemoprotozoa

40. *Rayella rayi* Das Gupta  
Family (iii) Haemogregarinidae
41. *Haemogregarina echisi* Mohiuddin, Pal & Warsi  
Class 4. Cnidosporidia  
Order : Myxosporida  
Family : Myxobolidae
42. *Thelohnellus shortti* Qadri  
Class 5. Ciliata  
Order (a) Trichostomatida  
Family : Blepharocoridae  
*Raabena* Wolska (g.n.)
43. *Raabena bella* Wolska  
Order (b) Holotricha  
Family : ?  
*Helicozoster* Latteur (g.n.)
44. *Helicozoter indicus* Latteur  
Phylum II. CNIDARIA  
Class : Hydrozoa  
Order (a) Siphonophora
45. *Vogtia kuruae* Alvarino  
Order (b) Anthomedusae  
Family : Plumulariidae
46. *Heterplon siliculata* Mammen
47. *Hincksella indiana* Millard
48. *Macrorhynchia gravelyi* Mammen
49. *Plumularia antonbruni* Millard
50. *Plumularia indica* Mammen
51. *Plumularia polycladia* Mammen  
Phylum III. PLATYHELMINTHES  
Class 1. Trematoda  
Family (i) Enhinostomatidae
52. *Singhiatrema lali* Chakrabarti  
Family (ii) Paramphistomidae
53. *Calicophoron orientalis* Mukherjee
54. *Ceylonocotyle thapari* Rao & Ghafoor  
*Kachugotrema* Dwivedi (g.n.)
55. *Kachugotrema amboinensis* Dwivedi
56. *Schizamphistomoides prescottii* Agrawal  
Family (iii) Ommatobrephidae
57. *Ommatobrephus chauhani* Dwivedi  
Family (iv) Monorchhiidae
58. *Asymphlodora ritai* Gupta & Agrawal  
Family (v) Allocreadiidae
59. *Eucreadium jhingrani* Srivastava & Singh
60. *Macrolecithus indicus* Gupta & Agrawal
61. *Macrolecithus trombi* Gupta & Agrawal
62. *Neopodocotyle lucknowensis* Gupta & Chakrabarti  
Family (vi) Hemiuridae
63. *Genarchopsis thapari* Gupta & Chakrabarti  
Family (vii) Spirorchidae  
*Cardiotrema* Dwivedi (g.n.)
64. *Cardiotrema longivesticulata* Dwivedi
65. *Cardiotrema vaidya* Dwivedi  
Family (viii) Psilostomidae
66. *Psilorchis seekhpari* Jain  
Family (ix) Acanthostomidae
67. *Acanthostomum (Atrophecaecum) alii*  
Karyakarte  
Family (x) Microphallidae
68. *Microphallus dicaecus* Mukherjee & Ghosh
69. *Microphallus indicus* Mukherjee & Ghosh  
Family (xi) Cryptogonimidae
70. *Caecineda wakullata* Premavati  
*Multigonotylus* Premavati (g.n.)
71. *Multigonotylus micropteri* Premavati  
Family (xii) Prosthogonimidae
72. *Prosthogonimus elongatus* Mukherjee  
Family (xiii) Opisthorchiidae
73. *Cercaria diglandulata* Pandey
74. *Cercaria dalibaghensis* Pandey  
Family (xiv) Heterophyidae
75. *Haptorchis gyanpuri* Jain  
Family (xv) Lecithodendriidae
76. *Postorchigenes majeedi* Sinha & Hakim  
Class 2. Cestoda  
Family (i) Anoplocephalidae
77. *Cotugnia streptopeli* Khan & Habibullah
78. *Pulluterina columbiae* Khan & Habibullah
79. *Taufikia ghoshi* Capoor  
Family (ii) Dilepididae
80. *Anonchotaenia chauhani* Mukherjee
81. *Choanotaenia srivastava* Mukherjee

82. *Eugonodaeum pycnonoti* Khan & Habibullah  
Family (iii) Hymenolepidae
83. *Mayhewia yamnguti* Singh & Tandon  
Phylum IV ASCHELMINTHES  
Class : Nematoda  
Family (i) Alaimidae
84. *Alaimus editorus* Siddiqi & Husain  
85. *Alaimus hamulus* Siddiqi & Husain  
86. *Alaimus jaulasali* Siddiqi & Husain  
87. *Alaimus leptus* Siddiqi & Husain  
88. *Alaimus medius* Siddiqi & Husain  
89. *Alaimus thrixus* Siddiqi & Husain  
Family (ii) Aphelenchidae
90. *Aphelenchoides absari* Husain & Khan  
91. *Aphelenchoides aligarhiensis* Siddiqi, Husain & Khan  
92. *Aphelenchoides andrassyi* Husain & Khan  
93. *Aphelenchoides appendurus* Singh  
94. *Aphelenchoides chinensis* Husain & Khan  
95. *Aphelenchoides goodeyi* Siddiqi & Franklin  
96. *Aphelenchoides jacobi* Husain & Khan  
97. *Aphelenchoides montanus* Singh  
98. *Paraphelenchus sacchari* Husain & Khan  
Scinurinae Husain & Khan (subfam.n.)
99. *Scinura oostenbrinki* Husain & Khan  
100. *Scinura propora* Siddiqi, Husain & Khan  
Family (iii) Tylenchidae
101. *Ditylenchus ausafl* Husain & Khan  
102. *Ditylenchus cyperi* Husain & Khan  
103. *Ditylenchus minutus* Husain & Khan  
104. *Hemicycliophora dhirendri* Husain & Khan  
Rotylenchulinae Husain & Khan (subfam.n.)
105. *Rotylenchus helicus* Husain & Khan  
106. *Tylenchus (Lelenchus) cynodontus* Husain & Khan  
107. *Tylenchus (Ottolenchus) equisetus* Husain & Khan (subg.n.)  
108. *Tylenchus (Lelenchus) mirus* Husain & Khan  
109. *Tylenchorynchus nilgiriensis* Seshadri, Muthukrishnan & Shunmugan  
Family (iv) Neotylenchidae
110. *Basilophora propora* Husain & Khan  
111. *Boleodorus typicus* Husain & Khan  
*Paurodontella* Husain & Khan (g.n.)
112. *Paurodontella minuta* Husain & Khan  
Family (v) Diphtherophoridae
113. *Diphtherophora granata* Husain & Khan  
114. *Diphtherophora ivanovae* Husain & Khan  
115. *Tyloaimophorus digitatus* Husain & Khan  
116. *Tyloaimophorus indicus* Husain & Khan  
Family (vi) Criconematidae
117. *Paratylenchus micoletzkyi* Edward, Misra & Singh  
118. *Paratylenchus navadus* Khan, Prasad & Mathur  
119. *Paratylenchus similis* Khan, Prasad & Mathur  
Family (vii) Belonidiridae
120. *Dorylaimellus paralongicaudatus* Husain & Khan  
121. *Dorylaimellus processus* Husain & Khan  
122. *Dorylaimellus pruni* Husain & Khan  
123. *Dorylaimellus rosae* Husain & Khan  
*Durinema* Jairajpuri (g.n.)
124. *Durinema gracilis* Jairajpuri  
Family (viii) Dorylaimidae  
Cephalodorylaiminae Jairajpuri (subfam. n.)  
*Cephalodorylaimus* Jairajpuri (g.n.)
125. *Cephalodorylaimus papillatus* Jairajpuri  
126. *Discolaimium arcuatum* Husain & Siddiqi  
127. *Discolaimium brachyurum* Husain & Siddiqi  
128. *Discolaimium obtusum* Husain & Siddiqi  
129. *Enchodelus constrictus* Jairajpuri & Loof  
130. *Enchodelus longidens* Jairajpuri & Loof  
131. *Enchodelus zonatus* Jairajpuri & Loof  
*Qudsiella* Jairajpuri (g.n.)
132. *Qudsiella gracilis* Jairajpuri  
*Willinema* Baqri & Jairajpuri (g.n.)
133. *Willinema indicum* Baqri & Jairajpuri  
Family (ix) Thelaziidae
134. *Oxyspirura acuticauda* Jairajpuri & Siddiqi  
135. *Oxyspirura dicruri* Jairajpuri & Siddiqi

136. *Oxyspirura dicruricola* Jairajpuri & Siddiqi  
 137. *Oxyspirura grandipapillata* Jairajpuri & Siddiqi  
 138. *Oxyspirura laharpurensis* Jairajpuri & Siddiqi  
 139. *Oxyspirura malibarica* Jairajpuri & Siddiqi  
 140. *Oxyspirura meropsicola* Jairajpuri & Siddiqi  
 141. *Oxyspirura mirzai* Jairajpuri & Siddiqi  
 142. *Oxyspirura nigerica* Jairajpuri & Siddiqi  
 143. *Oxyspirura orientalis* Jairajpuri & Siddiqi  
 144. *Oxyspirura rustica* Jairajpuri & Siddiqi  
 145. *Oxyspirura solitaria* Jairajpuri & Siddiqi  
 146. *Oxyspirura sturnia* Jairajpuri & Siddiqi  
 147. *Oxyspirura wellsii* Jairajpuri & Siddiqi  
     Family (x) Drilonematidae  
     *Adleronema* Timm (g.n.)  
 148. *Adleronema eutyphoei* Timm  
 149. *Adleronema magnum* Timm  
 150. *Adleronema mirabilis* Timm  
     *Burmanema* Timm (g.n.)  
 151. *Burmanema singulare* Timm  
 152. *Dicelis eisniae* Timm  
     *Diceloides* Timm (g.n.)  
 153. *Diceloides mirabilis* Timm  
 154. *Filiponema burmense* Timm  
 155. *Mesonema burmense* Timm  
     *Tonoscolecinema* Timm (g.n.)  
 156. *Tonoscolecinema burmense* Timm  
 157. *Tonoscolecinema gatesi* Timm  
 158. *Tonoscolecinema parvum* Timm  
 159. *Tonoscolecinema setosum* Timm  
 160. *Tonoscolecinema triquetrum* Timm  
     Family (xi) Linhomocidae  
 161. *Eleutherolaimus hopperi* Timm  
 162. *Eleutherolaimus inglisi* Timm  
 163. *Metalinhomoeus insularis* Timm  
 164. *Metalinhomoeus sunderbanae* Timm  
     *Terschellingoides* Timm (g.n.)  
 165. *Terschellingoides filiformis* Timm  
     Family (xii) Scolecophilidae  
 166. *Scolecophilus onus* Timm  
     Family (xiii) Ungellidae  
     *Adungella* Timm (g.n.)  
 167. *Adungella gatesi* Timm  
 168. *Adungella major* Timm  
 169. *Adungella manicatae* Timm  
     *Siconemella* Timm (g.n.)  
 170. *Siconemella burmensis* Timm  
     Family (xiv) Tylencholaimellidae  
 171. *Doryllium aestarii* Timm  
     Family (xv) Comesomatidae  
 172. *Sabatieria microsetosa* Timm  
     Family (xvi) Enophidae  
 173. *Thalassoalaimus setosus* Timm  
     Family (xvii) ?  
 174. *Anoplostoma sunderbanae* Timm  
     Family (xviii) Longidoridae  
 175. *Longidorus reneyii* Raina  
     Family (xix) Thelastomatidae  
 176. *Blattophila basiri* Farooqui  
 177. *Blattophila bryotriuae* Farooqui  
 178. *Blattophila singhi* Farooqui  
 179. *Leidynema (Leidynema) periplaneti* Farooqui  
 180. *Leidynema (Leidynema) schwenki* Farooqui  
     Family (xx) Mehdinematidae  
     Farooqui (fam.n.)  
     *Mehdinema* Farooqui (g.n.)  
 181. *Mehdinema alii* Farooqui  
     Family (xxi) Ironidae  
     *Branchinema* Farooqui (g.n.)  
 182. *Branchinema paratelpusii* Farooqui  
     Family (xxii) Caroyidae  
 183. *Rondonema thapari* Farooqui  
     Family (xxiii) Oxyuridae  
 184. *Mirzaiella alii* Farooqui  
 185. *Syphacia funambuli* Johnson  
 186. *Thelandros calotis* Johnson  
     Family (xiv) Ascarididae  
 187. *Ascaridia ganapatii* Scod  
     Family (xxv) Camallanidae  
 188. *Camallanus bufoni* Agrawal  
 189. *Camallanus inglisi* Agrawal

190. *Camallanus mastacembeli* Agrawal  
 191. *Camallanus striatusi* Sood  
 192. *Procamallanus fasciatusi* Sood  
 193. *Procamallanus gontii* Sood  
 194. *Procamallanus vittatusi* Sood  
 195. *Spirocamallanus chauhani* Sahay  
     Family (xxvi) Cylicostromylidae  
 196. *Cylicostromylus thapari* Sood  
     Family (xxvii) Quimperidae  
 197. *Metaquimperia ophicephali* Sood  
     Family (xxviii) Actinolaimidae  
 198. *Paractinolaimus girini* Sukul  
 199. *Paractinolaimus macrodentatus* Sukul  
     Family (xxix) Rhabdoconidae  
 200. *Rhabdoskona ghaggari* Sood  
     Family (xxx) Cucullanidae  
 201. *Cucullanus pseudotropi* Agrawal  
     Family (xxxi) Filariidae  
 202. *Pelecitus ceylonensis* Dissanaiké  
     Family (xxxii) Ancylostomidae  
 203. *Ancylostoma sindhensis* Khanum  
     Phylum V. ACANTHOCEPHALA  
     Family (i) Acanthogyridae  
 204. *Acanthogyrus tripathi* Rai  
     Family (ii) Quadrigyridae  
 205. *Pallisentis guntei* Sahay, Nath & Sinha  
 206. *Pallisentis panadei* Rai  
 207. *Raosentes thapari* Rai  
     Phylum VI. ANNELIDA  
     Class 1. Polychaeta  
     Family : Cirratulidae  
 208. *Cirriformia limnoricola* Kirkegaard & Santhakumaran  
     Phylum VII. MOLLUSCA  
     Class 1. Gastropoda  
     Order : Opisthobranchia  
     Family : Nerineidae  
 209. *Dalmatea disioi* Ronchetti  
 210. *Plesioptyseis yasinensis* Ronchetti  
     Class 2. Bivalvia  
     Family (i) Corbiculidae  
 211. *Corbicula krishnae* Ray  
     Family (ii) Sphacriidae  
 212. *Pisidium (Afropisidium) ellisi* Dance  
 213. *Pisidium (Odhneripisidium) kuiperi* Dance  
     Family (iii)  
 214. *Horipleura desioi* Ronchetti  
     Class 3. Cephalopoda  
     Family : Loliginidae  
 215. *Loliolus rhomboidalis* Burgess  
     Phylum VIII. ARTHROPODA  
     Class 1. Pauropoda  
 216. *Allopauropus (Decapauropus) hortulamus* Schubart  
 217. *Allopauropus (Decapauropus) indicus* Schubart  
 218. *Allopauropus (Decapauropus) insignis* Schubart  
 219. *Allopauropus (Decapauropus) lerefaiti* Schubart  
 220. *Allopauropus (Decapauropus) ramulosus* Schubart  
 221. *Allopauropus (Decapauropus) tamulus* Schubart  
 222. *Allopauropus (Decapauropus) tonisilis* Schubart  
 223. *Allopauropus (Decapauropus) viarti* Schubart  
 224. *Pauropus difficilis* Schubart  
 225. *Pauropus legrisi* Schubart  
     Class 2. Insecta  
     Order (a) Collembola  
     Family : Paronellidae  
     *Yosia* Mitra (g.n.)  
 226. *Yosia dehradunia* Mitra  
     Order (b) Ephemeroptera  
     Family (i) Baetidae  
 227. *Baetis gillican* Rashid Ali  
 228. *Baetis macanis* Rashid Ali  
 229. *Baetis mecheanis* Rashid Ali  
     Family (ii) Caenidae  
 230. *Caenis kimminsii* Rashid Ali  
     Family (iii) Ephemeridae  
 231. *Ephemerella soanica* Rashid Ali  
     Family (iv) Heptageniidae  
 232. *Ecdyonurus islamabadicus* Rashid Ali  
     Family (v) Leptophebiidae

233. *Chloreterpes quadricus* Rashid Ali  
Family (vi) Prosopistomatidae
234. *Prosopistoma indicum* Peters
235. *Prosopistoma lieftinki* Peters  
Order (c) Plecoptera  
Family (i) Nemouridae
236. *Amphinemura amatuli* Aubert
237. *Amphinemura bilolai* Aubert
238. *Amphinemura bomdilai* Aubert
239. *Amphinemura lithami* Aubert
240. *Amphinemura manipurensis* Aubert
241. *Amphinemura moshingia* Aubert
242. *Amphinemura nongrimi* Aubert
243. *Amphinemura paraleteipes* Aubert
244. *Amphinemura pseudoluteipes* Aubert
245. *Amphinemura rahungi* Aubert
246. *Amphinemura talungolzongi* Aubert
247. *Nemoura bokhari* Aubert
248. *Nemoura chattriki* Aubert
249. *Nemoura khasii* Aubert
250. *Nemoura khuleni* Aubert
251. *Nemoura lakhipuri* Aubert
252. *Nemoura maclangi* Aubert
253. *Nemoura schmidi* Aubert
254. *Nemoura tricantha* Aubert
255. *Protonemura assami* Aubert
256. *Protonemura brachyfiligera* Aubert
257. *Protonemura cherrapunji* Aubert
258. *Protonemura divanrdzongi* Aubert
259. *Protonemura gigaoni* Aubert
260. *Protonemura kamengi* Aubert
261. *Protonemura manipuri* Aubert
262. *Protonemura metafiligera* Aubert
263. *Protonemura nakkui* Aubert
264. *Protonemura nyukmadongi* Aubert
265. *Protonemura parafiligera* Aubert
266. *Protonemura paraproctalis* Aubert
267. *Protonemura pseudofiligera* Aubert
268. *Protonemura sangtii* Aubert
269. *Protonemura shergaoni* Aubert  
Family (ii) Chloroperlidae  
*Plesioperla* Zwick (g.n.)
270. *Plesioperla assamensis* Zwick  
Order (d) Orthoptera  
Family : Gryllidae
271. *Gymnogryllus kashmirensis* Bhowmik
272. *Loxoblemmus animae* Bhowmik
273. *Scapsipedus bhadurii* Bhowmik
274. *Scapsipedus jharna* Bhowmik
275. *Scapsipedus raychaudhuri* Bhowmik
276. *Scapsipedus sikkimensis* Bhowmik
277. *Scapsipedus sukhadae* Bhowmik  
Order (e) Dermaptera  
Family (i) Forficulidae
278. *Forficula abbotabadensis* Bharadwaj & Kapoor
279. *Kosmetor bosei* Bharadwaj & Kapoor  
Family (ii) Chalisochidae
280. *Proreus shaffi* Bharadwaj & Kapoor  
Family (iii) Labiidae
281. *Labia serrata* Kapoor  
Family (iv) Carcinophoridae  
*Thekalabis* Kapoor (g.n.)
282. *Thekalabis genitalis* Kapoor  
Family (v) Pygidicranidae
283. *Cranopygia fletcheri* Bharadwaj & Kapoor  
Order (f) Isoptera  
Family (i) Termitidae
284. *Eurytermes buddha* Bose & Maiti
285. *Odontotermes bhagwati* Chatterjee & Thakur
286. *Odontotermes lokanandii* Chatterjee & Thakur  
Family (ii) Hodotermitidae
287. *Archotermopsis deodarea* Chatterjee & Thakur  
Order (g) Psocoptera  
Family : Pseudocaecillidae  
*Allocaecillius* Lee & Thorton (g.n.)
288. *Allocaecillius heterothorax* Lee & Thorton
289. *Heterocaecillius fuscipalpus* Lee & Thorton  
*Scytopsocopsis* Lee & Thorton (g.n.)
290. *Scytopsocopsis hirtipenna* Lee & Thorton  
Order (h) Mallophaga  
Family : Philopteridae

291. *Ardeicola dennelli* Hajela & Tandon  
Order (i) Hemiptera  
Family (i) Aphididae  
*Aspidophorodon* Verma (g.n.)
292. *Aspidophorodon harvensis* Verma  
Family (ii) Cicadellidae  
*Amrasca* Ghauri (g.n.)
293. *Amrasca splendens* Ghauri  
*Hardiana* Mahmood (g.n.)
294. *Hardiana assamensis* Mahmood  
Family (iii) Diaspididae
295. *Andaspis artocarpi* Borchfenius  
*Pararaoaspis* Borchfenius (g.n.)  
*Raoaspis* Borchfenius (g.n.)
296. *Raoaspis betulae* Borchfenius
297. *Raoaspis indica* Borchfenius
298. *Raoaspis mori* Borchfenius
299. *Raoaspis raoi* Borchfenius  
*Roonwalaspis* Borchfenius
300. *Roonwalaspis quereicola* Borchfenius  
Family (iv) Reduviidae
301. *Bagauda similis* Wygodzinshy  
*Hornylia* Wygodzinshy (g.n.)
302. *Hornylia nalanda* Wygodzinshy  
*Ischnobaenella* Wygodzinshy (g.n.)
303. *Ischnobaenella jawalagiri* Wygodzinshy  
*Onychomesa* Wygodzinshy (g.n.)
304. *Onychomesa susainethani* Wygodzinshy
305. *Stenolemus susainethani* Wygodzinshy  
Family (v) Tingidae
306. *Naochila arete* Drake & Mohanasundaram
307. *Stephanitis chariesis* Drake & Mohanasundaram  
Order (j) Thysanoptera  
Family (l) Thripidae  
*Ajothrips* Bhatti (g.n.)
308. *Ajothrips gara* Bhatti
309. *Ajothrips karma* Bhatti  
*Amalothrips* Ananthakrishnan (g.n.)
310. *Amalothrips flaccidus* Ananthakrishnan  
*Charientothrips* Ananthakrishnan (g.n.)
311. *Charientothrips nilgircus* Ananthakrishnan
312. *Choethrips aureus* Ananthakrishnan & Jagadish
313. *Chloethrips bicolor* Ananthakrishnan & Jagadish
314. *Chloethrips dissidens* Ananthakrishnan & Jagadish
315. *Chloethrips glandularis* Ananthakrishnan & Jagadish
316. *Chloethrips graminis* Ananthakrishnan & Jagadish  
Family (ii) Phlaeothripidae  
*Calamothrips* Ananthakrishnan (g.n.)
317. *Calamothrips fastigatus* Ananthakrishnan  
*Chlarathrips* Ananthakrishnan (g.n.)
318. *Chlarathrips tersus* Ananthakrishnan  
*Mesicothrips* (*Mesicothripoides*) Ananthakrishnan (subg. n.)
319. *Mesicothrips* (*Mesicothripoides*) *inquilinus* Ananthakrishnan  
*Percnothrips* Ananthakrishnan (g.n.)
320. *Percnothrips turbinatus* Ananthakrishnan  
Order (k) Neuroptera  
Family : Coniopterydidae
321. *Aleuropteryx vartianorum* Aspöck & Aspöck  
Order (l) Lepidoptera  
Family (i) Satyridae
322. *Ypthima davidsoni* Eliot
323. *Ypthima dohertyi* Eliot
324. *Ypthima evansi* Eliot
325. *Ypthima evansi haka* Eliot (subsp. n.)
326. *Ypthima evansi evansi* Eliot (subsp. n.)
327. *Ypthima hanningtoni* Eliot  
Family (ii) Drepanidae
328. *Oreta vatama luculenta* Watson (subsp. n.)  
Family (iii) Noctuidae  
*Ebertidia* Boursin (g.n.)
329. *Ebertidia haderonides* Boursin  
Family (iv) Hesperidae
330. *Plastingia callineura donatona* Eliot (subsp. n.)
331. *Plastingia agnesia* Eliot

332. *Platingia agnesia agnesi* Eliot (subsp. n.)  
Family (v)  
*Kashmiroblatta* Verma (g.n.)
333. *Kashmiroblatta marahomensis* Verma  
Order (m) Diptera  
Family (l) Tipulidae
334. *Ctenacroscelis biculatus* Alexander
335. *Ctenacroscelis elobatus* Alexander
336. *Ctenacroscelis makra* Alexander
337. *Ctenacroscelis nigrofemoratus* Alexander
338. *Dicranota (Rhaphidolabis) chorisa* Alexander
339. *Dicranota (Eudicranota) tigriventris* Alexander
340. *Dolichopeza (Mitopeza) crassistyla* Alexander
341. *Dolichopeza (Nesopeza) garuda* Alexander
342. *Dolichopeza (Nesopeza) kashongensis* Alexander
343. *Dolichopeza (Nesopeza) manipurensis* Alexander
344. *Dolichopeza (Nesopeza) neoballator* Alexander
345. *Dolichopeza (Nesopeza) perlongiseta* Alexander
346. *Dolichopeza (Nesopeza) rahula* Alexander
347. *Dolichopeza (Nesopeza) simplex* Alexander
348. *Dolichopeza (Nesopeza) subballator* Alexander
349. *Dolichopeza (Oropeza) variitibiata* Alexander
350. *Gnophomyia (Gnophomyia) diacaena* Alexander
351. *Gnophomyia (Lipophleps) pentacantha* Alexander
352. *Gonomyia (Idiocera) acaenophallos* Alexander
353. *Gonomyia (Lipophleps) amblystyly* Alexander
354. *Gonomyia (Protozonomyia) apiculata* Alexander
355. *Gonomyia (Protozonomyia) apocrypha* Alexander
356. *Gonomyia (Ptilostenodes) capitula* Alexander
357. *Gonomyia (Protozonomyia) constotyla* Alexander  
*Gonomyia (Sivagonomyia)* Alexander (subg. n.)
358. *Gonomyia discolophallus* Alexander
359. *Gonomyia (Idiocera) forcera* Alexander
360. *Gonomyia (Gonomyia) fulvipennis* Alexander
361. *Gonomyia (Protozonomyia) glabristyla* Alexander
362. *Gonomyia (Lipophleps) hestica* Alexander
363. *Gonomyia (Gonomyia) hirsutistyla obtusistyla* Alexander (subsp. n.)
364. *Gonomyia (Idiocera) kashongensis* Alexander
365. *Gonomyia (Idiocera) lamia* Alexander
366. *Gonomyia (Idiocera) leda* Alexander  
*Gonomyia (Teuchogonomyia)* Alexander (subg. n.)
367. *Gonomyia (Protozonomyia) pella* Alexander  
*Gonomyia (Ramagonomyia)* Alexander (subg. n.)
368. *Gonomyia (Ramagonomyia) protensa* Alexander
369. *Gonomyia (Protozonomyia) rejecta* Alexander
370. *Gonomyia (Protozonomyia) scoteina* Alexander
371. *Gonomyia (Idiocera) serratistyla* Alexander
372. *Gonomyia (Idiocera) sita* Alexander
373. *Gonomyia (Lipophleps) speratina* Alexander
374. *Gonomyia (Ptilostenodes) stenomera* Alexander
375. *Gonomyia (Gonomyia) subaffinis* Alexander
376. *Gonomyia (Idiocera) terribilis* Alexander
377. *Gonomyia (Idiocera) vayu* Alexander
378. *Gymnastes (Gymnastes) anticaniger* Alexander
379. *Gymnastes (Gymnastes) cyaneus nil irieus* Alexander (subsp. n.)
380. *Gymnastes (Gymnastes) latifuscas* Alexander
381. *Gymnastes (Gymnastes) tridens* Alexander
382. *Helius (Helius) anamalaiensis* Alexander

383. *Helius (Helius) apophysalis* Alexander  
 384. *Helius (Helius) catreus* Alexander  
 385. *Helius (Helius) campactus* Alexander  
 386. *Helius (Helius) fuscoangustus* Alexander  
 387. *Helius (Helius) impensus* Alexander  
 388. *Helius (Helius) numenius* Alexander  
 289. *Helius (Helius) oxystylus* Alexander  
 390. *Helius (Helius) serenus* Alexander  
 391. *Helius (Helius) selenorhynchus ciralinus*  
 — Alexander (subsp. n.)  
 392. *Helius (Helius) tantalus* Alexander  
 393. *Helius (Helius) taos* Alexander  
 394. *Helius (Helius) verticillatus* Alexander  
 395. *Limonia (Dicranomyia) abigor* Alexander  
 396. *Limonia (Geranomyia) obblusa* Alexander  
 397. *Limonia (Thrypticomyia) aelistia* Alexander  
 398. *Limonia (Limonia) amblymera* Alexander  
 399. *Limonia (Eurhipidia) argema* Alexander  
 400. *Limonia (Dicranomyia) clarissima* Alexander  
 401. *Limonia (Dicranomyia) commogastra*  
 Alexander  
 402. *Limonia congesta* Alexander  
 403. *Limonia (Geranomyia) durga* Alexander  
 404. *Limonia (Limonia) ectopa* Alexander  
 405. *Limonia (Thrypticomyia) estigmata* Alexander  
 406. *Limonia (Dicranomyia) euryrhycha*  
 Alexander  
 407. *Limonia (Melanolimonia) eveza* Alexander  
 408. *Limonia (Eurhipidia) hexadyclona*  
 Alexander  
 409. *Limonia (Limonia) hians* Alexander  
 410. *Limonia (Geranomyia) hirudinis* Alexander  
 411. *Limonia (Laosa) impensa* Alexander  
 412. *Limonia (Libnotes) inattenta* Alexander  
 413. *Limonia (Nealexandriaria) injucuna*  
 Alexander  
 414. *Limonia (Libnotes) isahna* Alexander  
 415. *Limonia (Limonia) murcida* Alexander  
 416. *Limonia (Dicranomyia) neananta* Alexander  
 417. *Limonia (Dicranomyia) neofascipennis*  
 Alexander  
 418. *Limonia (Laosa) noctipes* Alexander  
 419. *Limonia (Dicranomyia) parvanya* Alexander  
 420. *Limonia (Dicranomyia) parvati* Alexander  
 421. *Limonia (Limonia) peramabilis* Alexander  
 422. *Limonia (Rhipidia) peratripes* Alexander  
 423. *Limonia (Limonia) perproducta* Alexander  
 424. *Limonia (Dicranomyia) rectistyla* Alexander  
 425. *Limonia (Melanolimonia) rhadinostyla*  
 Alexander  
 426. *Limonia (Limonia) sannionis* Alexander  
 427. *Limonia (Limonia) surpula* Alexander  
 428. *Limonia (Libnotes) simplicicercus* Alexander  
 429. *Limonia (Limonia) tyssa* Alexander  
 430. *Limonia (Sivalimnobia) uma* Alexander  
 431. *Limonia (Libnotes) univibrissa* Alexander  
 432. *Limonia (Dicranomyia) varsha* Alexander  
 433. *Limonia (Dicranomyia) yoganidra* Alexander  
 434. *Malaise rajah* Alexander  
 435. *Malaise rancee* Alexander  
 436. *Malaisemyia schmidiane* Alexander  
 437. *Nephrotoma altigalea* Alexander  
 438. *Nephrotoma bicristata* Alexander  
 439. *Nephrotoma curtiterebra* Alexander  
 440. *Nephrotoma ericarum* Alexander  
 441. *Nephrotoma euryglossa* Alexander  
 442. *Nephrotoma hamulifera* Alexander  
 443. *Nephrotoma korpa* Alexander  
 444. *Nephrotoma longisternata* Alexander  
 445. *Nephrotoma peralticrista* Alexander  
 446. *Nephrotoma platysterna* Alexander  
 447. *Nephrotoma subambonis* Alexander  
 448. *Nipponomyia kamengensis* Alexander  
 449. *Pedicia (Tricyphona) bicollis* Alexander  
 450. *Pedicia (Tricyphona) megastigma* Alexander  
 451. *Taiwanomyia brevicornis* Alexander

452. *Taiwanomyia brevissima* Alexander  
 453. *Taiwanomyia hispivena* Alexander  
 454. *Taiwanomyia pollostata* Alexander  
 455. *Taiwanomyia setulosa* Alexander  
 456. *Toxorhina (Ceratocheilus) bistyla* Alexander  
 457. *Toxorhina (Ceratocheilus) fulvicolor* Alexander  
 458. *Toxorhina (Ceratocheilus) fuscolumbata* Alexander  
 459. *Toxorhina (Ceratocheilus) simplicistyla* Alexander  
 460. *Trentepohlia (Mongoma) amphinipha* Alexander  
 461. *Trentepohlia (Trentepohlia) infernalis* Alexander  
 462. *Trentepohlia (Mongoma) patens* Alexander  
 Family (ii) Ceratopogonidae  
 463. *Loptoconops (Holoconops) amplifemoralis* Chanthawanich & Delfinado  
 Family (iii) Culicidae  
 464. *Aedes (Diceromyia) ramachandrai* Reuben  
 Family (iv) Syrphidae  
 465. *Baccha tribeni* Nayar  
 466. *Chilosia kalatopennis* Nayar  
 467. *Eristatis lunar* Nayar  
 468. *Eristatis santoshi* Nayar  
 469. *Rhingia sivalikonsis* Nayar  
 470. *Syrphus himalayanus* Nayar  
 471. *Xanthogramma indica* Nayar  
 Family (v) Psychodae  
 472. *Phlebotomus (Larrousius) kandelakii* Lewis  
 473. *Phlebotomus (Paraphlebotomus) nuri* Lewis  
 Family (vi) Cecidomyiidae  
 474. *Stictodiplosis morindae* Grover  
 Family (vii) Anthomyiidae  
 475. *Craspedochoeta hamata* Ackland  
 476. *Delia coeli* Ackland  
 477. *Delia nepalensis* Ackland  
 478. *Delia repens* Ackland  
 479. *Hylemyia probilis* Ackland  
 480. *Pegohylemyia nupera* Ackland  
 481. *Pegohylemyia quinlani* Ackland  
 482. *Phorbia morula* Ackland  
 483. *Phorbia tysoni* Ackland  
 484. *Pseudomyopina fumidorsis* Ackland  
 485. *Pseudomyopina pamirensis* Ackland  
 Family (viii) Tephritidae  
 486. *Ceratitella asiatica* Hardy  
 487. *Ceratitella lufasciata* Hardy  
 488. *Ceratitella unifasciata* Hardy  
*Paraceratitella* Hardy (g.n.)  
 489. *Paraceratitella eurycephata* Hardy  
 490. *Paraceratitella oblonga* Herdy  
 Family (ix) Bibionidae  
 491. *Bibio aquilus* Hardy  
 492. *Bibio araeosceles* Hardy  
 493. *Bibio nepalensis* Hardy  
 Order (n) Siphonaptera  
 Family : Hystrichopsyllidae  
 494. *Doratopsylla wissemanni* Traub & Evans  
 495. *Plaeopsylla setzeri* Traub & Evans  
 Order (o) Hymenoptera  
 Family (i) Ichneumonidae  
 496. *Aglaojoppa egregia* Heinrich  
 497. *Aglaojoppa egregia annulata* Heinrich  
 (subsp. n.)  
 498. *Aglaojoppa egregia egregia* Heinrich (subsp. n.)  
 499. *Aglaojoppa lamellata klapperichi* Heinrich  
 (subsp. n.)  
 500. *Aglaojoppa lamellata lamellata* Heinrich  
 (subsp. n.)  
 501. *Aglaojoppa malaisei* Heinrich  
 502. *Aglaojoppa paradisea* Heinrich  
 503. *Aglaojoppa tigris* Heinrich  
 504. *Coelichneumon (Taphanes) bacillus* Heinrich  
 505. *Coelichneumon (Taphanes) dolichopsis victoriae* Heinrich (subsp. n.)  
 506. *Coelichneumon (Intermedichneumon) geminus* Heinrich  
 507. *Coelichneumon (Intermedichneumon) penicillatus* Heinrich  
 508. *Eucremastus (Cephalobotus) cyphotichae* Lal  
 509. *Listrognathus (Listrognathus) acuminata* Gupta & Kamath

510. *Listrognathus (Listrognathus) assamensis*  
Gupta & Kamath
511. *Listrognathus (Listrognathus) confracta*  
Gupta & Kamath
512. *Listrognathus (Stivadens) flavopetiolate*  
Gupta & Kamath
513. *Listrognathus (Listrognathus) nigriab-*  
*dominalis* Gupta & Kamath
514. *Listrognathus (Listrognathus) perfecta*  
Gupta & Kamath
515. *Listrognathus (Stivadens) tirkyi* Gupta &  
Kamath
516. *Schreineria dholpurensis* Gupta & Jonathan
517. *Schreineria himalayana* Gupta & Jonathan  
Family (ii) Pentatomidae
518. *Corioxenos raoi* Baliga  
Family (iii) Torymidae  
*Parasycobia* Abdurahiman & Joseph  
(g.n.)
519. *Parasycobia kaurae* Abdurahiman & Joseph  
*Sycobiomorphella* Abdurahiman &  
Joseph (g.n.)
520. *Sycobiomorphella lacorensis* Abdurahiman &  
Joseph
521. *Sycoryctes religosae* Wiebes  
Family (iv) Bethylidae
522. *Goniozus stomopterycis* Ram & Subba Rao  
Family (v) Brachonidae
523. *Apanteles aso* Nixon
524. *Apanteles cleo* Nixon
525. *Apanteles lebenae* Nixon
526. *Apanteles maro* Nixon
527. *Apanteles nudia* Nixon
528. *Apanteles priscus* Nixon  
Family (vi) Agaonidae  
*Maniella* Abdurahiman & Joseph  
(g.n.)
529. *Maniella delhiensis* Abdurahiman & Joseph  
Family (vii) Encyrtidae
530. *Leptoamstides indica* Subba Rao
531. *Procheloneurus nipaecocci* Subba Rao
532. *Tyndarichus hemiaspidoproctis* Subba Rao  
Family (viii) Aphidiidae
533. *Areopraon antiquum* Mackaur  
Order (p) Coleoptera  
Family (i) Anthicidae
534. *Steriphodon doncasteri* Abdullah  
Family (ii) Carabidae
535. *Graniger mandli* Jedlicka
536. *Trechus (s.s.) numatai* Ueno  
Family (iii) Aphodiidae
537. *Aphodius (Platyderides) angustiarum*  
Balthasar
538. *Aphodius (Carinaulus) dierli* Balthasar
539. *Aphodius (Acrossus) jubingensis* Balthasar
540. *Aphodius (Plagiogonus) palea* Balthasar  
Family (iv) Dynastidae
541. *Pentodon algerinum indicum* Endrodi  
(subg. n.)  
Family (v) Scarabeidae
542. *Clipadoretus quadridentatus* Petrovitz  
*Microlontha* Petrovitz (g.n.)
543. *Microlontha aphodioides* Petrovitz  
Family (vi) Coccinellidae
544. *Afissula antennata* Bielawski
545. *Afissula hyla* Bielawski
546. *Afissula puncta* Bielawski  
Family (vi) Cerambycidae
547. *Glenea assamana* Breuning
548. *Glenea bedoci mussardi* Breuning (subsp.n.)
549. *Glenea pici schmidi* Breuning (subsp.n.)
550. *Mesosella (Cylindrostyrax) bhutanensis*  
Breuning  
*Mimeuseboides* Breuning (g.n.)
551. *Mimeuseboides excavatipennis* Breuning  
*Mimophaeopate* Breuning (g.n.)
552. *Mimophaeopate assamensis* Breuning
553. *Monochamus subconvexicollis* Breuning  
*Niphonatossa* Breuning (g.n.)
554. *Niphonatossa mussardi* Breuning
555. *Obereopsis paratricollis* Breuning
556. *Obereopsis trinotaticollis* Breuning  
*Palaeoasemum* Abdullah (g.n.)
557. *Palaeoasemum crowsoni* Abdullah
558. *Palaeoasemum duffyi* Abdullah  
*Paralamiodorcadian* Breuning (g.n.)
559. *Paralamiodorcadian schmidi* Breuning
560. *Phelipara assamana* Breuning
561. *Pterolophia (s.s.) bottangensis* Breuning
562. *Pterolophia (Ale) postscutellaris* Breuning

563. *Pterolophia (Mimoron) ropiocoides* Breuning  
 564. *Pterolophia (Ale) rubiensis* Breuning  
 565. *Pterolophia (Ale) schmidi* Breuning  
 566. *Pterolophia (s.s.) subbicarinata* Breuning  
 567. *Pterolophia (s.s.) subconvexicollis* Breuning  
 568. *Serixia assamana* Breuning  
 569. *Trichoniphona albomarmorata* Breuning  
 Family (viii) Chrysomelidae  
 570. *Antipa (Tituboea) pefli* Lopatin  
 571. *Arthrotus hauseri* Kimoto  
 572. *Chrysomela (Chrysolina) coeruleans pifli*  
 Lopatin (subsp.n.)  
 573. *Monolepta simlense* Kimoto  
 Family (ix) Brentidae  
 574. *Eterozemus rubicundus* Damoiseau  
 Family (x) Halipidae  
 575. *Halipus manipurensis* Vazirani  
 576. *Halipus pruthii* Vazirani  
 Family (xi) Bostrychidae  
 577. *Xylopsocus lesne* Rai  
 Class 3. Crustacea  
 Subclass (A) Branchiopoda  
 Order : Diplostraca  
 Suborder : Conchostraca  
 Family : Cyzicidae  
 578. *Cyzicus nepalensis* Ueno  
 Subclass (B) Ostracoda  
 Order (1) Podocopa  
 Family (i) Entocytheridae  
 Microsystrinae Hart, Nair & Hart  
 (subfam.n.)  
*Microsystritia* Hart, Nair & Hart  
 (g.n.)  
 579. *Microsystritia indica* Hart, Nair & Hart  
 Family (ii) Hemicytheridae  
 580. *Hemicythere saurashtraensis* Guha  
 581. *Neomonoceratina oertlii* Guha  
 Order (2) Myodocopida  
 Family : Cyprididae  
 582. *Euphilomedes arostrata* Kornicker  
 Subclass (C) Copepoda  
 Order (1) Calanoida  
 Family (i) Actideidae  
 583. *Actideopsis retusa* Grice & Hulsemann  
 584. *Bradyetes florens* Grice & Hulsemann  
 585. *Pseudochirella squalida* Grice & Hulsemann  
 Family (ii) Angaptilidae  
 586. *Euaugaptilus curtus* Grice & Hulsemann  
 587. *Euaugaptilus fundatus* Grice & Hulsemann  
 588. *Euaugaptilus malacus* Grice & Hulsemann  
 589. *Euaugaptilus quaesitus* Grice & Hulsemann  
 590. *Euaugaptilus rectus* Grice & Hulsemann  
 591. *Pontoaptilus lacertosus* Grice & Hulsemann  
 Family (iii) Euchaetidae  
 592. *Euchaeta scapula* Fontaine  
 Family (iv) Bathypontidae  
*Rhinomaxillaris* Grice & Hulsemann  
 (g.n.)  
 593. *Rhinomaxillaris bathybia* Grice & Hulsemann  
 Family (v) Metridiidae  
 594. *Metridia effusa* Grice & Hulsemann  
 Family (vi) Phaenidae  
 595. *Xanthocalanus hispidus* Grice & Hulsemann  
 596. *Zenkevitchiella crassa* Grice & Hulsemann  
 Family (vii) Pseudocalanidae  
 597. *Spinocalanus ventriosus* Grice & Hulsemann  
 Family (viii) Scolecithricidae  
 598. *Scolecithricella grata* Grice & Hulsemann  
 599. *Scolecithricella maritima* Grice & Hulsemann  
 Order (2) Harpacticoida  
 Family (i) Pontellidae  
 600. *Arenopontia indica* Rao  
 Family (ii) Ectinosomidae  
 601. *Arenosetella balakrishnani* Bozic  
 Order (3) Cyclopoida  
 Family (i) Myocolidae  
 602. *Anthessius mytilicolus* Raddiah  
 Family (ii) Bomolochidae  
 603. *Bomolochus jonesi* Bennet  
 604. *Bomolochus varunae* Bennet  
 Order (4) Caligoida  
 Family (i) Caligidae  
 605. *Anuretes anomalus* Pillai  
 606. *Caligus krishnai* Thomas  
 Family (ii) Pandaridae  
 607. *Dinemoura discrepans* Cressey  
 Family (iii) Eudactylinidae  
 608. *Eudactylina pollex* Cressey

510. *Listrognathus (Listrognathus) assamensis*  
Gupta & Kamath
511. *Listrognathus (Listrognathus) contracta*  
Gupta & Kamath
512. *Listrognathus (Stivadens) flavopetiolate*  
Gupta & Kamath
513. *Listrognathus (Listrognathus) nigriab-*  
*dominalis* Gupta & Kamath
514. *Listrognathus (Listrognathus) perfecta*  
Gupta & Kamath
515. *Listrognathus (Stivadens) tirkyi* Gupta &  
Kamath
516. *Schreineria dholpurensis* Gupta & Jonathan
517. *Schreineria himalayana* Gupta & Jonathan  
Family (ii) Pentatomidae
518. *Corioxenos raoi* Baliga  
Family (iii) Torymidae  
*Parasyctobia* Abdurahiman & Joseph  
(g.n.)
519. *Parasyctobia kaurae* Abdurahiman & Joseph  
*Sycobiomorphella* Abdurahiman &  
Joseph (g.n.)
520. *Sycobiomorphella lacorensis* Abdurahiman &  
Joseph
521. *Sycoryctes religosae* Wiebes  
Family (iv) Bethyilidae
522. *Goniozus stomopterycis* Ram & Subba Rao  
Family (v) Brachonidae
523. *Apanteles aso* Nixon
524. *Apanteles cleo* Nixon
525. *Apanteles lebenae* Nixon
526. *Apanteles maro* Nixon
527. *Apanteles nudia* Nixon
528. *Apanteles priscus* Nixon  
Family (vi) Agaonidae  
*Maniella* Abdurahiman & Joseph  
(g.n.)
529. *Maniella delhiensis* Abdurahiman & Joseph  
Family (vii) Encyrtidae
530. *Leptoamstides indica* Subba Rao
531. *Procheloneurus pipaeococi* Subba Rao
532. *Tyndarichus hemiaspidoproctis* Subba Rao  
Family (viii) Aphidiidae
533. *Areopraon antiquum* Mackaur  
Order (p) Coleoptera  
Family (i) Anthicidae
534. *Steriphodon doncasteri* Abdullah  
Family (ii) Carabidae
535. *Graniger mandli* Jedlicka
536. *Trechus (s.s.) numatai* Ueno  
Family (iii) Aphodiidae
537. *Aphodius (Platyderides) angustiarum*  
Balthasar
538. *Aphodius (Carinaulus) dierli* Balthasar
539. *Aphodius (Acrossus) jubingensis* Balthasar
540. *Aphodius (Plagiogonus) palea* Balthasar  
Family (iv) Dynastidae
541. *Pentodon algerinum indicum* Endrodi  
(subg. n.)  
Family (v) Scarabeidae
542. *Clipadoretus quadridentatus* Petrovitz  
*Microlontha* Petrovitz (g.n.)
543. *Microlontha aphodioides* Petrovitz  
Family (vi) Coccinellidae
544. *Afissula antennata* Bielawski
545. *Afissula hyla* Bielawski
546. *Afissula puncta* Bielawski  
Family (vi) Cerambycidae
547. *Glenea assamana* Breuning
548. *Glenea bedoci mussardi* Breuning (subsp.n.)
549. *Glenea pici schmidi* Breuning (subsp.n.)
550. *Mesosella (Cylindrostyrax) bhutanensis*  
Breuning  
*Mimeuseboides* Breuning (g.n.)
551. *Mimeuseboides excavatipennis* Breuning  
*Mimophaeopate* Breuning (g.n.)
552. *Mimophaeopate assamensis* Breuning
553. *Monochamus subconvexicollis* Breuning  
*Niphonatossa* Breuning (g.n.)
554. *Niphonatossa mussardi* Breuning
555. *Obereopsis paratricollis* Breuning
556. *Obereopsis trinotaticollis* Breuning  
*Palaeoasemum* Abdullah (g.n.)
557. *Palaeoasemum crowsoni* Abdullah
558. *Palaeoasemum duffyi* Abdullah  
*Paralamiodorcadian* Breuning (g.n.)
559. *Paralamiodorcadian schmidi* Breuning
560. *Phelipara assamana* Breuning
561. *Pterolophia (s.s.) bottangensis* Breuning
562. *Pterolophia (Ale) postscutellaris* Breuning

563. *Pterolophia (Mimoron) ropicooides* Breuning  
 564. *Pterolophia (Ale) rubiensis* Breuning  
 565. *Pterolophia (Ale) schmidi* Breuning  
 566. *Pterolophia (s.s.) subconvexicollata* Breuning  
 567. *Pterolophia (s.s.) subconvexicollata* Breuning  
 568. *Serixia assamana* Breuning  
 569. *Trichoniphona albomarmorata* Breuning  
 Family (viii) Chrysomelidae  
 570. *Antipa (Tituboea) peflli* Lopatin  
 571. *Arthrotus hauseri* Kimoto  
 572. *Chrysomela (Chrysolina) coeruleans piflli*  
 Lopatin (subsp.n.)  
 573. *Monolepta simlense* Kimoto  
 Family (ix) Brentidae  
 574. *Eterozemus rubicundus* Damoiseau  
 Family (x) Haliplidae  
 575. *Halipus manipurensis* Vazirani  
 576. *Halipus pruthii* Vazirani  
 Family (xi) Bostrychidae  
 577. *Xylopsocus lesne* Raj  
 Class 3. Crustacea  
 Subclass (A) Branchiopoda  
 Order : Diplostraca  
 Suborder : Conchostraca  
 Family : Cyzicidae  
 578. *Cyzicus nepalensis* Ueno  
 Subclass (B) Ostracoda  
 Order (1) Podocopa  
 Family (i) Entocytheridae  
 Microsyssitriinae Hart, Nair & Hart  
 (subfam.n.)  
*Microsyssitria* Hart, Nair & Hart  
 (g.n.)  
 579. *Microsyssitria indica* Hart, Nair & Hart  
 Family (ii) Hemicytheridae  
 580. *Hemicythere saurashtraensis* Guha  
 581. *Neomonoceratina oertlii* Guha  
 Order (2) Myodocopida  
 Family : Cypridinidae  
 582. *Euphilomedes arostrata* Kornicker  
 Subclass (C) Copepoda  
 Order (1) Calanoida  
 Family (i) Aetideidae  
 583. *Aetideopsis retusa* Grice & Hulsemann  
 584. *Bradyyetes florens* Grice & Hulsemann  
 585. *Pseudochirella squalida* Grice & Hulsemann  
 Family (ii) Angaptilidae  
 586. *Euaugaptilus curtus* Grice & Hulsemann  
 587. *Euaugaptilus fundatus* Grice & Hulsemann  
 588. *Euaugaptilus malacus* Grice & Hulsemann  
 589. *Euaugaptilus quaesitus* Grice & Hulsemann  
 590. *Euaugaptilus rectus* Grice & Hulsemann  
 591. *Pontoptiluss lacertosus* Grice & Hulsemann  
 Family (iii) Euchaetidae  
 592. *Euchaeta scapula* Fontaine  
 Family (iv) Bathypontiidae  
*Rhinomaxillaris* Grice & Hulsemann  
 (g.n.)  
 593. *Rhinomaxillaris bathybia* Grice & Hulsemann  
 Family (v) Metridiidae  
 594. *Metridia effusa* Grice & Hulsemann  
 Family (vi) Phaennidae  
 595. *Xanthocalanus hispidus* Grice & Hulsemann  
 596. *Zenkevitchiella crassa* Grice & Hulsemann  
 Family (vii) Pseudocalanidae  
 597. *Spinocalanus ventriosus* Grice & Hulsemann  
 Family (viii) Scolecithricidae  
 598. *Scolecithricella grata* Grice & Hulsemann  
 599. *Scolecithricella maritima* Grice & Hulsemann  
 Order (2) Harpacticoida  
 Family (i) Pontellidae  
 600. *Arenopontia indica* Rao  
 Family (ii) Ectinosomidae  
 601. *Arenosetella balakrishnani* Bozic  
 Order (3) Cyclopoida  
 Family (1) Myocolidae  
 602. *Anthessius mytilicolus* Raddiah  
 Family (ii) Bomolochidae  
 603. *Bomolochus jonesi* Bennet  
 604. *Bomolochus varunae* Bennet  
 Order (4) Caligoida  
 Family (i) Caligidae  
 605. *Anuretes anomalus* Pillai  
 606. *Caligus krishnai* Thomas  
 Family (ii) Pandaridae  
 607. *Dinemoura discrepans* Cressey  
 Family (iii) Eudactylinidae  
 608. *Eudactylina pollex* Cressey

609. *Eudactylina pusilla* Cressey
610. *Nemesis aggregatus* Cressey  
Order (5) Lernaeopodoida  
Family : Lernaeopodidae  
*Proclavellodes* Kabata (g.n.)
611. *Proclavellodes pillaii* Kabata  
Subclass (D) Cirripedia  
Order : Thoracica  
Family : Chthamalidae  
*Tetrachthamalus* Newman (g.n.)
612. *Tetrachthamalus oblitteratus* Newman  
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613. *Squilla bombayensis* Chhappgar & Sane
614. *Squilla denticauda* Chhappgar & Sane  
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615. *Metapenaeus alcocki* George & Rao
616. *Penaeus kapurdii* Prasad  
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617. *Medaeops edwardsi* Guinot  
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618. *Upogebia (Upogebia) kempi* Shenoy  
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619. *Leucon bengalensis* Lomakina  
Family (ii) Nannastacidae
620. *Nannastacus angulifera* Lomakina  
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621. *Symphodomma vitrea* Lomakina  
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622. *Stylocheiron indicus* Silas & Mathew  
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Family (i) Oniscidae
623. *Philosia sacchari* David  
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624. *Metaphryxus bifidus* Bourdon  
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625. *Adungrella atroruera* Suzuki
626. *Verpulus kanoi* Suzuki  
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627. *Calocheiridius indicus* Beier
628. *Indolpium centrale* Beier
629. *Indolpium majusculum* Beier
630. *Indolpium transiens* Beier
631. *Lophochelifer depressoides* Beier
632. *Lophochernes bisslous* Beier
633. *Olpium indicum* Beier
634. *Parachernes indicus* Beier
635. *Parolpium pallidum* Beier  
*Stenochelifer* Beier (g.n.)
636. *Stenochelifer indicus* Beier  
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637. *Raillietiella piscator* Nair  
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638. *Africasia mahadensis* Cook
639. *Africasia navina* Cook
640. *Africasia pinguipalpis* Cook
641. *Africasia rucira* Cook
642. *Africasia ruksa* Cook
643. *Africasia subterranea* Cook  
*Allotorrenticola* Cook (subg.n.)
644. *Arrenurus (Truncaturus) alpapetirolatus*  
Cook
645. *Arrenurus (s.s.) bharatensis* Cook
646. *Arrenurus (s.s.) dadayi* Cook
647. *Arrenurus (s.s.) deccanensis* Cook
648. *Arrenurus (s.s.) kantakaphorus* Cook
649. *Arrenurus (s.s.) mysorensis* Cook
650. *Arrenurus (Megaluracarus) poonaensis*  
Cook
651. *Arrenurus (s.s.) projectus* Cook
652. *Arrenurus (s.s.) ritophilus* Cook
653. *Harpagopalpus (s.s.) indicus* Cook  
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654. *Albaxona stoka* Cook
655. *Albia dentipalpis* Cook
656. *Albia phreatica* Cook
657. *Albia suvarna* Cook
658. *Axonopsalbia indica* Cook
659. *Axonopsalbia kanyana* Cook  
*Navinaxonopsis* Cook (subg.n.)

660. *Axonopsis (Navinaxonopsis) abnormalis* Cook
661. *Axonopsis (Hexaxonopsis) Alpa* Cook
662. *Axonopsis (Paraxonopsis) angulata* Cook
663. *Axonopsis (Hexaxonopsis) भारतensis* Cook  
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664. *Axonopsis (Stokaxonopsis) blesselingi* Cook
665. *Axonopsis (Hexaxonopsis) niraensis* Cook
666. *Axonopsis (Paraxonopsis) panduvarna* Cook
667. *Axonopsis (s.s.) phreaticola* Cook
668. *Axonopsis (Paraxonopsis) projecta* Cook
669. *Axonopsis rucira* Cook
670. *Axonopsis vivarna* Cook
671. *Frontipodopsis reticulatifrons indicus* Cook  
(subsp.n.)
672. *Javalbia (s.s.) antama* Cook
673. *Javalbia (s.s.) punya* Cook  
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674. *Khedacarus platypes* Cook
675. *Lethaxona kutapalpis* Cook
676. *Lethaxona (s.s.) panduvarna* Cook  
Family (iii) Hygrobatidae
677. *Atractides (Octomegapus) biseutatus* Cook
678. *Atractides (Polymegapus) diversas* Cook
679. *Atractides (s.s.) dorsoscutatus* Cook
680. *Atractides (s.s.) keralensis* Cook
681. *Atractides (s.s.) nilgiris* Cook
682. *Atractides (s.s.) ootacamundis* Cook
683. *Atractides (s.s.) orthoporus* Cook
684. *Atractides (s.s.) sabulonis* Cook
685. *Atractides (s.s.) talinarostris* Cook
686. *Atractides (s.s.) vayitriensis* Cook
687. *Atractides (s.s.) yuki* Cook
688. *Hygrobates (s.s.) dadayi* Cook
689. *Hygrobates (s.s.) grimshawi* Cook
690. *Hygrobates (s.s.) hamatus भारतensis* Cook  
(subsp.n.)
691. *Hygrobates (Monobates) karekari* Cook
692. *Hygrobates (Monobates) keralensis* Cook
693. *Hygrobates (s.s.) phreaticus* Cook  
*Maharashtracarus* Cook (g.n.)
694. *Maharashtracarus phreaticus* Cook
695. *Megabates orientalis* Cook  
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696. *Aturus hiatusomus* Cook  
*Bhratalbia* Cook (g.n.)
697. *Bharatalbia (s.s.) sucirapalpis* Cook  
*Bharatalbiella* Cook (subg.n.)
698. *Bharatalbia (Bharatalbiella) talinapalpis* Cook
699. *Kongsbergia (s.s.) parvatiya* Cook
700. *Kongsbergia (s.s.) rucira* Cook
701. *Kongsbergia (s.s.) variabilis* Cook  
Family (v) Hydrovolziidae  
*Bharatavolsia* Cook (subg.n.)
702. *Bharatavolsia (s.s.) musicola* Cook  
*Bharatavolsiella* Cook (subg.n.)
703. *Bharatavolsia (Bharatavolsiella) pallida* Cook  
Family (vi) Hungarohydracridae  
*Bharatohydracarus* Cook (g.n.)
704. *Bharatohydracarus elongatus* Cook
705. *Bharatohydracarus imamurai* Cook
706. *Bharatohydracarus orientalis* Cook
707. *Bharatohydracarus phreaticus* Cook
708. *Bharatohydracarus schawoerbeli* Cook
709. *Bharatohydracarus similis* Cook
710. *Hungarohydracarus indicus* Cook
711. *Hungarohydracarus szalayii* Cook  
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712. *Bharatonia vietsi* Cook
713. *Mamersella (s.s.) maryellenae* Cook  
*Navamamesides* Cook (g.n.)
714. *Navamamesides karekari* Cook
715. *Navamamesides similis* Cook  
*Nilgiriopsis* Cook (g.n.)
716. *Nilgiriopsis imamurai* Cook
717. *Nilotonia (Dartonia) navina* Cook
718. *Nilotonia (Dartonia) perplexa* Cook  
*Tedagatonia* Cook (subg.n.)
719. *Platymamersopsis adhika* Cook
720. *Platymamersopsis mysorensis* Cook  
Family (viii) Unionicolidae

721. *Encetridophorus (s.s.) indicus* Cook  
 722. *Encetridophorus (s.s.) similis* Cook  
 723. *Neumania (Lemienia) maharashtris* Cook  
 724. *Neumania (Soarella) megulbana* Cook  
 725. *Neumania (Ecpotopsis) multisculata*  
*bharatensis* Cook (subsp.n.)  
 726. *Neumania (s.s.) navina* Cook  
 727. *Neumania (Soarella) ulbana* Cook  
 728. *Neumania (s.s.) vivarna* Cook  
 729. *Unionicola (Pentatax) kantaka* Cook  
 730. *Unionicola (Pentatax) setifera* Cook  
 Family (ix) Hydrachnidae  
 731. *Hydrachna (Rhabdohydrachna) multipora*  
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 732. *Hydrachna (s.s.) mysorensis* Cook  
 733. *Hydrachna (s.s.) similis* Cook  
 734. *Hydrachna (Scutohydrachna) testudinata*  
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 735. *Hydrodroma rheophila* Cook  
 736. *Hydrodroma tonapii* Cook  
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 737. *Javathyas cornipes* Cook  
 738. *Mamersa gennada* Cook  
 739. *Mamersa petrophila* Cook  
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 740. *Kawamuracarus polyporus* Cook  
 741. *Kawamuracarus similis* Cook  
 742. *Kawamuracarus uniscutatus* Cook  
 743. *Limnesia (s.s.) lucifera uniseta* Cook  
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 744. *Limnesia (Tetralimnesia) pinguipalpis*  
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*Nicalimnesia* Cook (g.n.)  
 745. *Nicalimnesia andha* Cook  
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 746. *Lebertia (Pilolebertia) carmamaya* Cook  
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 747. *Piona catatama* Cook  
 748. *Piona indica* Cook  
 749. *Piona mahisa* Cook  
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 750. *Protzia (s.s.) gata* Cook  
 751. *Protzia (s.s.) indica* Cook  
 752. *Wandesia (Pseudowandesia) vermiformis*  
 Cook  
 Family (xvi) Sperchonidae  
 753. *Sperchon (s.s.) hirsutus* Cook  
 754. *Sperchon (Hispidosperchon) nilgiris* Cook  
 755. *Sperchon (s.s.) colacamundis* Cook  
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 757. *Tiramideopsis (Navamideopsis) expansipes*  
 Cook  
 758. *Tiramideopsis (s.s.) pallida* Cook  
 759. *Tiramideopsis (s.s.) ovalis* Cook  
 760. *Tiramideopsis tenasachiniae* Cook  
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 761. *Torrenticola (s.s.) indica* Cook  
 762. *Torrenticola (s.s.) maharashtris* Cook  
 763. *Torrenticola (s.s.) microdentifera* Cook  
 764. *Torrenticola (s.s.) mulherkarae* Cook  
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 766. *Torrenticola (s.s.) vicista* Cook  
 767. *Torrenticola (Monatractides) apratima*  
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 768. *Torrenticola (Monatractides) dadayi* Cook  
 769. *Torrenticola (Monatractides) devatta* Cook  
 770. *Torrenticola (Monatractides) nondescripta*  
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 771. *Torrenticola (Monatractides) oza* Cook  
 772. *Torrenticola (Monatractides) parvatiya*  
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 773. *Torrenticola (Monatractides) pinapalpis*  
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 774. *Torrenticola (Monatractides) pusta* Cook  
 775. *Torrenticola (Monatractides) sakina* Cook  
 776. *Torrenticola (Monatractides) setivalvata*  
 Cook  
 777. *Torrenticolo (Monatractides) sucira* Cook  
 778. *Torrenticola (Monatractides) yosana* Cook  
*Allotorrenticola* Cook (subg.n.)

779. *Torrenticola (Allotorrenticola) suvarna* Cook  
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780. *Dolicheremaeus inopinatus* Aoki
781. *Dolicheremaeus porcinoles* Aoki  
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782. *Coleotaelaps indicus* Bhattacharyya  
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783. *Veigaia orientalis* Bhattacharyya
784. *Veigaia sternalis* Bhattacharyya  
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785. *Rodentopus (Sciuropus) lukoschi* Fain  
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787. *Amblyseius bambusae* Ghai & Menon
788. *Amblyseius coccosocius* Ghai & Menon
789. *Amblyseius eucalypti* Ghai & Menon
790. *Amblyseius ipomoeae* Ghai & Menon
791. *Amblyseius lablabi* Ghai & Menon
792. *Amblyseius mangiferae* Ghai & Menon
793. *Amblyseius memurtryi* Muma
794. *Amblyseius sacchari* Ghai & Menon
795. *Amblydromella loralaiana* Muma
796. *Amblydromella paraaerialis* Muma  
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797. *Cydnoseius cordiae* Muma  
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798. *Leptotrombidium (s.s.) abidi* Traub & Nadchatram
799. *Leptotrombidium (s.s.) dihumeralae* Traub & Nadchatram
800. *Leptotrombidium (s.s.) irregulare* Traub & Nadchatram
801. *Leptotrombidium (s.s.) rupestre* Traub & Nadchatram  
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802. *Scytodes maruphlongensis* Tikader  
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803. *Lyssomanes sikkimensis* Tikader
804. *Maeva himalaya* Tikader
805. *Salticus ranjitus* Tikader  
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806. *Siboglinum modestum* Bubko  
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*Physiology* : 204, 1069.

*Ecology* : 1281, 1657.

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*Ecology* : 257, 515, 857, 1318, 1373, 1391, 1456, 1876, 2054, 2232, 2271.

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*Physiology* : 200, 994, 1250, 1360, 1608, 2192.

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## 9. BRACHIOPODA

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*Control* : 435.

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*Morphology* : 89, 611, 946, 1118, 1531, 1588, 1786,  
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*Histology* : 89, 1949.  
*Cytology* : 1950, 2178.  
*Biology* : 230, 353, 616, 825, 1420, 1821, 2354, 2356.  
*Physiology* : 119, 160, 231, 353, 498, 611, 823, 824,  
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*Parasitology* : 330, 1232, 1312.  
*Ecology* : 230.  
*Behaviour* : 386, 1591.  
*Zoogeography & Faunistic* : 93, 265, 266, 788,  
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*General* : 1557, 1646, 2310.  
*Systematics* : 6, 743, 1889.  
*Morphology & Anatomy* : 258, 259, 429, 536, 537,  
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*Histology* : 47, 655, 777, 1353, 1537.  
*Cytology* : 16, 112, 428, 429, 430, 655, 1030, 1031,  
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*Biology* : 394, 1656, 1671, 1689.  
*Physiology* : 85, 86, 244, 245, 373, 379, 475, 476, 477,  
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*Pathology* : 18, 127, 150, 329, 453, 747, 1013, 1014,  
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*Ecology* : 193, 397, 733, 1354.  
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*Systematics* : 26, 28, 649, 959, 1772.

*Morphology & Anatomy* : 24, 74, 226, 437, 614,  
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*Osteology* : 28, 613, 614, 615, 1530.

*Histology* : 196, 241, 250, 612, 1655, 1942, 2208.

*Genetics & Cytology* : 14, 212, 358, 729, 731, 732,  
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*Biology & Development* : 20, 25, 242, 470, 1016,  
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*Physiology & Biochemistry* : 40, 41, 74, 75, 111,  
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