

**BIBLIOGRAPHY
OF
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**BIBLIOGRAPHY OF INDIAN ZOOLOGY
FOR THE YEAR 1961**



Compiled by
KOSHY MATHEW AND D. P. BHATTACHARYA

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I—BRIEF REVIEW FOR 1961

INTRODUCTION

An extensive bibliographical list of about 1530 references is presented here which is preceded by a brief review of the work published in India and elsewhere on the zoology of the Indian region during the year 1961. In the present review only certain papers are considered for reasons of space limitations. As in earlier years, the review is followed by a list of new taxa such as families, genera, species etc., in the fauna of the Indian region and a subject index. The review contains 10 sections as follows:

1. GENERAL
2. PROTOZOA
3. PORIFERA
4. COELENTERATA
5. PLATYHELMINTHES
 - (a) Trematoda
 - (b) Cestoda
6. ASCHELMINTHES
 - (a) Rotifera
 - (b) Nematoda
7. ANNELIDA
8. MOLLUSCA
9. ARTHROPODA
 - (a) Crustacea
 - (b) Arachnida
 - (c) Pycnogonida
 - (d) Insecta
10. CHORDATA
 - (a) Pisces
 - (b) Amphibia
 - (c) Reptilia
 - (d) Aves
 - (e) Mammalia

1. GENERAL

Balasubrahmanyam has conducted a preliminary survey of the Vellar estuarine bottom and its fauna and has given the grade analysis of the bottom deposits and the hydrological conditions of the various stations. Durve and Bal have studied the hydrology of the Kelwa backwaters and the adjoining sea. Gee has presented a glossary of nature conservation and wild life management terminology for use in India.

2. PROTOZOA

Banik and Ray have described a new coccidium, *Eimeria pavonina*, from the peacock, *Pavo cristatus*, while Chakravarty and Mandal, Malhotra and Ray and Ray and Mandal have described respectively new species *Eimeria zygaenae* from the hammer-headed shark *Zygaena blochii*, *E. tropicalis* from the domestic pigeon *Columba livia* and *E. ovoidalis* from a buffalo-calf. Chakravarty

and Patra have described a new freshwater ciliate, *Stylonychia oblongata*, while Naidu has given the morphological description of a new species of astomatous ciliate parasite from a freshwater oligochaete and Uttangi that of 5 new species of opalinid ciliates from Indian frogs. Janakidevi has described a new trichomonad, *Hexamastix dobelli*, parasitic in the starred tortoise, and Kilamb has described a new species of *Proteromonas* from the spiny-tailed lizard. Narain has reported two new cephaline gregarines from the intestine of *Gryllobates crumenifer* while Rodgi and Ball have given the morphological description of five new species of gregarines from millipedes of Mysore State. Rajender has described *Monocercomonas lori* from the Indian slender loris, and Devi has studied autogamy in *Frontonia leucas*. G. P. Dutta has investigated the metacystic divisions in the life-cycle of *Entamoeba histolytica*.

3. PORIFERA

S. Banerjee has studied the behaviour of centrifuged amoeboid cells from a freshwater sponge, while Ganguly has made some observations on the action of temperature gradients on the behaviour of dissociated sponge cells.

4. COELENTERATA

Sanyal has studied the mitochondrial landscape in the different cell-types of *Hydra*.

5. PLATYHELMINTHES

(a) Trematoda

Bhardwaj has erected two new genera, *Pseudoartychinostomum* and *Mehraformis*, and has described two new species. Chatterji and Kruidenier have described three new species of *Xenopharynx* from Indian snakes. Dissanaik has given a note on some helminths of dogs in Colombo and has described a new species, *Heterophyopsis vehi*, while Dissanaik and Paramanathan have created a new subgenus, *Brugiella*, and have described a new species *Brugia* (*Brugiella* subgen. n.) *buckleyi* from the heart and blood vessels of the Ceylon hare. S. C. Dutt and Srivastava have revised the genus *Ornithobilharzia* and have created two new genera, *Orientobilharzia* and *Sinobilharzia*. They have also investigated the epidermal structures of the miracidia of six species of mammalian schistosomes and have given a new technique of specific diagnosis of animal schistosomiasis. Descriptions of new trematodes are given by Jain, Rai and Rai and Agarwal. Ramalingam has described two new genera, *Paragemmaecaputia* and *Bilateracotyloides*, and two new species. K. H. Rao has created a new genus, *Elongoparorchis*, and has described a new species from the air-bladder of the marine catfish, *Arius jella*, while Unnithan has erected a new genus *Heterapta* and has described the functional

morphology of four new trematodes of fishes. B. B. Bhatia has studied the common helminthic infections of the intestine of Indian sheep, while Goil has studied the rate of oxygen consumption, haemoglobin and carbohydrate metabolism in *Fasciola gigantica*. S. P. Gupta has given a classified catalogue of Indian fishes with a list of trematode parasites found in them.

(b) Cestoda

S. P. Gupta has erected three new genera and has described four new species of cestodes. Johri has described two new cestodes from Indian reptiles and mammals, while Singal has described a new cestode, *Oochoristica bailea*, from the common wall lizard, *Hemidactylus flaviviridis*. S. C. Dutt and Sinha and Dutt, Sinha and Mehra have given the description of the life-history of the fowl tapeworms *Choanotaenia infundibulum* and *Raillietina cesticillus* respectively.

6. ASCHELMINTHES

(a) Rotifera

Pasha has described six species of rotifers belonging to two genera *Lecane* and *Monostyla* which are recorded for the first time from Madras.

(b) Nematoda

Several new nematodes have been described during the year under review and a number of new genera erected by various authors. S. M. Ali has erected a new genus *Ameeria* and has described a new species, *A. sultanæ*, from the common hornbill, *Tockus birostris*. He has also erected one subgenus and described 14 new species from birds in Hyderabad. Chakravarty, Majumdar and Sain have created a new genus, *Neocamallanus*, and have described a new species *N. heteropneusti* and another new species *Spinitectus bengalensis*. Kannan has made a special study of the soil nematodes of the genera *Mononchus* and *Mononchulus* and has given the description of nine new species and three new varieties. Khera has described a new nematode, *Thelandros aspiculus* from the garden lizard, *Calotes versicolor*. Siddiqi has made some studies on the species of Criconematinae from India. He has erected a new genus, *Gymnotylenchus* and has described 13 new species. Timm has erected a new subfamily, *Prodontorhabditinae*, 12 new genera, 3 new subgenera and has also described 60 new species and one new variety. S. K. Prasad has discussed the problem of plant parasitic nematodes in India. Nath, Gupta and Kochhar have studied the histochemistry of the male germ cells of the nematode, *Porrocaecum angusticolle*, a parasite in the vulture.

7. ANNELIDA

Prabhoo has described three new species of oligochaeta, namely, *Achaeta nielsenii*, *A. indica* and *Hemienchytraeus*

theae. Tembe and Dubash have given a general account of the anatomy, physiology, sense organs, behaviour, intelligence, distribution, ecology, etc. of earthworms. Joshi and Kamat have studied the metachromasia of the eggs of the earthworm, *Pheretima elongata*. T. G. Pillai has created one new genus and has described 13 new species of polychaeta. B. D. Bhatt has made a faunistic study of fresh water leeches from Naini Tal.

8. MOLLUSCA

Rajagopalaiengar has reported a new species of marine borer, *Bankia (Neobankia) roonwali*. N. B. Nair has given a review of work done on wood-boring molluscs in the fields of taxonomy, distribution, physiology, anatomy, development, etc. Sukumaran and Krishnaswamy have studied the reactions of *Cellana radiata* (Gastropoda) to salinity changes. Bade, Masurekar and Bal have given a general account of the wood-borer *Bankia (Bankiella) minima*, while Durve and Bal have estimated the organic and inorganic constituents of the edible oyster, *Crassostrea gryphoides* and have discussed seasonal variations. K. C. Ghosh has investigated the digestive enzymes and the cellulolytic bacteria in the gut of *Achatina fulica*. Menon, Datta Gupta and Das Gupta have studied the distribution of molluscs in the gulf of Kutch.

9. ARTHROPODA

(a) Crustacea

C. V. Kurian has described two new species of *Caligus*, and one new species each of *Toxophorus*, *Bodotria* and *Iphione*. Rangnekar and Murti have described two new copepods from the fishes of Bombay. N. K. Pillai has described six new species of Mysidae and eight new species of Caligidae and has erected one new genus, *Indocaligus*. K. Reddiah has described three new species of *Conchylurus* from Indian molluscs. K. L. Sehgal has described a new species of the copepod, *Heliodiaptomus alikunhii* from Orissa. C. H. Fernando has described a new species of *Paratelphusa* (Brachyura) from Ceylon. Karande and Inamdar have studied the biology of the conchostracan branchiopod, *Leptestheriella gigas*. Patel and Crip have dealt with the relation between breeding and moulting cycles in cirripedes. Shaikhmahmud and Tembe have studied the general patterns of ovarian development of the common marine prawn, *Parapenaeopsis stylifera*, and have described the developmental changes in size, colour of ovaries, histological changes, etc.; a key has been provided for the identification of various developmental stages of the ovary.

(b) Arachnida

Krishnakumaran has made a comparative study of the chemical nature of the arachnid cuticle. A. P. Mathew has described the feeding mechanism in *Lychas tricarinatus*. Sasirababu has given an account of the large fibres noticed in scorpions. Murthy has described two new

species of pseudoscorpions from south India. Gaud has described two new species of feather mites from poultry in India, while Narayanan and Ghai have described a new species of *Melichares*. Deoras and Patel have described the life-history of the blood sucking rat-mite, *Dermanyssus muris*, and have given the distinguishing characters of the male and female adult mite and various stages. Achan has made some observations on oviposition of *Rhipicephalus sanguineus*.

(c) Pycnogonida

Clarke has described in detail the morphology of two new Pycnogonids, *Nymphon maldivensis* and *Cheilopallene brevicheila*.

(d) Insecta

I. General

G. L. Arora has dealt with insects and human relationship. Butani has given lists of insect pests of sugarcane and maize in Bihar. Israel *et al* have given an account of distribution and economic status of rice pests in India. Karandikar and Ranade have made studies on the insect fauna of Poona and surroundings. Mani and Singh have given an account of their observations on high altitude insect ecology. They have also given the zoogeographical considerations of the nival insect fauna from N. W. Himalaya and have discussed the known distribution of several species. Mathur and Chandra have given a list of insect fauna of Nepal and neighbouring areas, while Mathur and Singh have given lists of insect pests of forest plants in India and the adjacent countries. Metha and Varma have given an illustrated account of pesticides and appliances. Nagarajan has presented a guide to the control of crop pests.

II. Insect Orders

(i) Protura

Conde has described a new species of Protura *Acerentulus breviunguis*.

(ii) Collembola

Goto has described a new collembolan, *Brachystomella surendrai*.

(iii) Odonata

Mehrotra has described two new species of *Orthetrum*. P. N. Mathur and K. C. Mathur have studied the cephalic musculature of adult *Ictinus angulosus*. They have also given an account of the morphology of the head-capsule and its appendages of *Orthetrum taeniolatum*.

(iv) Orthoptera

Roonwal has given an exhaustive bibliography of the Orthopterous insects of the family Acrididae from the earliest times to 1954. Khattar has given a morphological account of the neck and prothorax of *Schizodactylus monstrosus*. Lal and Parshad have studied the male genitalia of 28 species of Indian Acrididae. They have also made a comparative study of the male genitalia of four species of Truxalinae. Pradhan, Jotwani and Rai have made a study of comparative toxicity of some important insecticides to *Locusta migratoria*. K. N. Katiyar has described the life-history and ecology of the short-horned grasshopper, *Eyprepocnemis roseus*. J. Dasgupta has studied the chromosome complement of *Trigonomorpha crenulata*. G. N. Bhatia has made some observations on concentrated solitary breeding of desert locust, *Schistocerca gregaria*.

(v) Dermaptera

Bharadwaj and Bhatnagar have presented a list of Naini Tal Dermaptera. Hardas has described the arrangement of the metathoracic hairs and the elytral spines in *Labidura riparia*, while K. Kadam has given the morphological description of the head, head appendages, stomodaeum and the musculature of *L. riparia*. Ramamurthi has discussed variations and their bearing on the taxonomy of earwigs.

(vi) Dictyoptera

Srivastava and Gupta have studied the excretion of uric acid in *Periplaneta americana*. Naidu has studied the mechanism responsible for different susceptibility among male and female insects of the same species to insecticides by using the isolated cockroach heart technique.

(vii) Isoptera

Mathur and Sen-Sarma have described a new species of *Angulitermes* from South India and another new species of *Capritermes* from Burma. K. Krishna has made a generic revision and phylogenetic study of the family Kalotermitidae. Kushwaha has studied the chaetotaxy of the workers of *Odontotermes assmuthi*. Roonwal and Chatterjee have conducted experiments on the control of mound-building termite, *Odontotermes obesus* using water suspensions of BHC, DDT, aldrin and dieldrin, while Roonwal, Chatterjee and Thappa have published the results of experiments with some chlorinated hydrocarbons for determining their efficacy against subterranean termites. Roonwal and Chhotani have dealt with important wood-destroying termites of India.

(viii) Mallophaga

Dhanda has presented the diagnostic characters of the genus *Aegypocetus*.

(ix) Anoplura (Siphunculata)

M. I. D. Sharma has studied the susceptibility of *Pediculus humanus corporis* to DDT, gamma BHC and pyrethrins. Chaudhuri and Kumar have described the life history and habits of the buffalo louse, *Haematopinus tuberculatus*.

(x) Hemiptera

A. N. Basu has described one new species of aphid and has reported 16 species of aphids and their host plants. Mary and Basu have described a new species of *Tetraneura*. S. P. Mukherji has studied the structure and histology of the alimentary canal of some Homoptera. N. S. Bhattacharjee has studied the bionomics, biology and control of *Lygaeus pandurus* and has described its various stages. Srivastava and Bhaduri have investigated the development of malpighian tubules in *Dysdercus koenigii*. Kumar has given an account of the genitalia in 12 families of aquatic and semiaquatic Heteroptera and has discussed their bearing on classification. Kurup has made a histological study of the digestive tract of some Cryptocerata. Rastogi has studied the anatomy of the digestive organs of *Sphaerodema rusticum*. Bhatnagar and Saxena have studied the absorption of glucose and fructose in the gut of *Oxycarenus hyalinipennis*, while Saxena and Bhatnagar have studied the nature and characteristics of invertase in relation to utilization of sucrose in the same insect. Jande has investigated the chromosomes of the family Notonectidae.

(xi) Thysanoptera

Ananthakrishnan has erected three new genera and has described 10 new species of thrips. He has dealt with allometry and speciation in *Ecacanthothrips* and has given a key to genera of grass-infesting thrips. Bhatti has created a new genus and has described a new species, while Stannard has described a new species of *Allelothrips*. Jagota has given an account of the life-history of *Microcephalothrips abdominalis*.

(xii) Neuroptera

Kimmins has described two new species of Hemerobiidae from Pakistan.

(xiii) Lepidoptera

Bleszynski has given the morphological description of nine new species of the family Crambidae, while Cantlie has described a new species of *Halpe* from Burma. Fletcher has described 11 new species and 3 subspecies of Geometridae while Heydemann has erected one new genus and described two new species of Geometridae. Schutze has described five new species of Geometridae. Adiga

and Sharma have summarized the more recent developments in metabolism in *Corcyra*. B. P. Srivastava has described the male and female reproductive organs of *Leucinodes orbonalis*. M. Z. Alam has given an account of the biology of rice-ear cutting caterpillar, *Pseudaletia unipuncta*, while Bindra has studied the biology and control of the hairy caterpillar, *Amsacta moorei*. K. K. Nayar has discussed the effects of juvenile hormone extracts of the butterfly *Terias hecabe*. Pant, Srivastava and Ghai have studied the digestive physiology of the larvae of *Chilo zonellus*. P. N. Srivastava has studied the various digestive enzymes secreted by the alimentary canal of the larvae of the rice moth, *Corcyra cephalonica*, and also the effect of starvation on the secretion of these enzymes. Lal *et al* have investigated the effect of irradiating fullgrown caterpillars and freshly formed pupae with beta radiation.

(xiv) Trichoptera

Schmid has described 37 new species of Trichoptera from Pakistan.

(xv) Diptera

Alexander has described 6 new species of *Dicranota*, 8 new species of *Gonomyia*, 6 new species of *Trichocera*, 10 new species of *Phyllolabis*, 2 new species of *Protanyderus* and has given a general consideration of the scope and distribution of the known species of the genus and a key to the Himalayan species. Appukuttan has described one new species and Grover three new species of gall midges. Philip has erected a new genus and has described three new tabanid flies. Spencer has given the morphological description of 8 new species of Agromyzidae from the oriental region. Chand, Singh and Srivastava have studied the culicine fauna of Gorakhpur district. Grant has investigated the morphological differentiation of the larval instars of *Simulium ornatum*. Ranade has described the female terminalia of *Musca domestica*. Damodar *et al* have studied the absorption, distribution, metabolism and excretion of DDT which is topically applied on *Musca nebulosa*.

(xvi) Siphonaptera

Seal and Bhattacharji have described the bionomics of two species of rat fleas in Calcutta. M.I.D. Sharma has given a note on the susceptibility of rat fleas of Delhi to DDT, dieldrin and gamma BHC.

(xvii) Hymenoptera

Alam has described two new Encyrtid parasites, *Aphidencyrthus qudrii* and *Blastothrix coryli*, while Chacko and Katiyar have described a new species of *Hadrophanurus*. Gangrade has given the description of a new species of

Euderus. V. K. Gupta has revised the oriental species of the genus *Zaglyptus* and has described four new species and three new subspecies. Kurian and Mathen have given the morphological description of a new species of *Mystrocnemis*. Malaise has erected seven new genera and has described 37 new species of Tenthredinoidea. Narayanan and Lal have given a note on Indian Ichneumonidae, while Narayanan and Subba Rao have described 10 new species of Hymenoptera. Townes, Townes and Gupta have given a catalogue and reclassification of Indo-Australian Ichneumonidae. Wahis has described three new species and two new subspecies of Pompilidae. Ananthasubramanian and Ananthakrishnan have studied the life-history and habits of *Anastatus*, an egg-parasite of *Supella supellectilium*. Subba Rao and Chacko have given an account of the biology and morphology of the immature stages and the longevity, fecundity and sex ratio of a new egg-parasite, *Allophanurus indicus*, while Subba Rao and Gopinath have studied the effect of temperature and humidity on the longevity and fecundity of *Chelonius rufus*. Deodikar, Thakar and Tonapi have discussed evolution in the genus *Apis*. A. L. David has studied the biology of the tree ants *Technomyrmex* sp. and *Oecophylla smaragdina*. G. P. Sharma *et al* have investigated the cytology and spermatogenesis in the honey bee, *Apis indica*. Dutt and Ferriere have listed the chalcidoid parasites of the jute stem girdler from West Bengal.

(xviii) Coleoptera

Breuning has erected five new genera and described twelve new species and two new subspecies of Cerambycidae, while Jeannel has erected three new genera and described seven new species of Pselaphidae. Chatterjee, Sarup and Menon have described a new species of *Derispia*. Kapur has given the redescription and distribution of *Epilachna indica* and has described a new species, *E. karenensis*. He has also described another new species *Stethorus keralicus*. Haaf has described sixteen new species of *Alcidodes* from south-India while Petrovitz has described 4 new species of Scarabaeidae and Szymezkowski has described 2 new species of Silphidae. B. Parshad has described a new aquatic weevil from India while Menon and Parshad have described two new species of Curculionidae from Delhi. Datta Gupta, Kundu and Munshi have studied the wing venation of Carabidae and Curculionidae. Pant and Ghai have investigated the nutritional physiology of *Trogoderma granarium*. Pradhan, Jotwani and Rai have studied the comparative toxicity of some insecticides to the grubs of *Hypera variabilis*. U. Agrawal has made some studies on the chromosomes of five species of Coccinellidae. Rangnekar and Nirmal have studied the distribution of neurosecretory cells in the brain and in the thoracic and abdominal ganglia of *Heliocopris bucephalus*. Singh and Nayar have studied ovulation and corpus luteum formation in *Coccinella septempunctata* and N. Dutt has studied the bionomics of the jute stem girdler *Nupserha bicolor*.

10. CHORDATA

(a) Pisces

A. G. K. Menon has described a new eel, *Bascanichthys daraniyagalai* and has given a key to the Indian Ophichthyidae; Silas and Dawson have also described a new eel, *Amphipnous indicus*. Duttamunshi has given an account of the accessory respiratory organs of *Clarias batrachus*, while K. M. Kadam has studied the skull in *Nerophis*. S. S. Khanna has described the hyobranchial skeleton of some fishes. Tilak has described and compared the osteocranium and the Weberian apparatus of *Eutropiichthys murius* and *E. vacha*. Kuthalingam has described various stages in the life-history of *Polynemus indicus* and the composition of the earliest diet of the post-larvae and the later changes in the diet in subsequent stages. He has also described various stages in the life-history of *Dussumieria acuta*. Basheeruddin and Nayar have made a preliminary study of juvenile fishes of the coastal waters of Madras city. B. C. Das has investigated the effect of density on survival during the first two weeks of life after hatching of Indian fresh water-carp. Ganapati and Raju have given an account of the eggs and early development of some muraenid and ophichthyid fishes. Quasim and Qayyum have made some observations on the spawning frequencies and breeding seasons of some freshwater fishes in north India. Saigal and Motwani have studied the early life-history, bionomics and feeding of *Mystus*. Sathyanesan has described the general morphology and histology of the pituitary of *Mystus seenghala* and *Barbus stigma*. Srinivasachar has described the development of the chondrocranium in *Heteropneustes fossilis* and *Clarias batrachus*. Hasan and Qasim have studied the effect of temperature on the heart rates of *Ophicephalus punctatus*, *Mystus vittatus* and *Barbus stigma*. Datta Gupta *et al* have given a list of fishes of Rajasthan, while Malaviya has given a list of fishes from Jabalpur.

(b) Amphibia

D. P. S. Bhati has described the pectoral girdle and its musculature of *Rana tigrina* and *Bufo andersonii*. Basu and Mondal have investigated the spermatogenesis in normal hypophysectomized toads. Cherian, Vasu and Krishnaswamy have studied the haemoglobin content and the rate of sedimentation in the blood of *Rana hexadactyla*. Kanwar has studied the morphology and histochemistry of the various cytoplasmic inclusions in the goblet cells of frog and their role in the synthesis of mucus.

(c) Reptilia

A. N. Bhatnagar has studied chromosome cytology of the snake, *Lycodon avlicus*. Kanwar has given an account of the morphology and histochemistry of the various cytoplasmic inclusions in the goblet cells of the wall lizard and their role in the synthesis of mucous. S. P. Sharma has studied the morphology and cytology of the spinal neurones of *Uromastix hardwickii*.

(d) Aves

Ripley has recorded 19 species of birds from Burma and has described one new subspecies. Biswas has given a list of birds from Nepal. George and Iype have studied the heart muscle lipase activity of the rosy pastor and the common myna. They have determined the lipase activity of the brain during development of the chick from 8-19 days. George and Talesara have made some observations on succinic dehydrogenase and cytochrome oxidase activity in pigeon breast-muscle. George and Vallyathan have studied lipase activity in the blood of pigeon, domestic fowl and rosy pastor and have discussed the physiological significance of the variation in the lipase activity in the blood of the three birds. Chakravorti and Sadhu have studied the histology and the concentration and localization of the alkaline and acid phosphatases, nucleic acids, polysaccharides and the meta-chromatic substances in the different regions of the oviduct of the kite and hen. Dominic has studied annual reproductive cycles and the atretic follicles in the ovary of the domestic pigeon, *Columba livia*. He has also studied the involution of the bursa of fabricius in birds. Abdul Ali has made some observations on the nesting habits of the eastern race of Finn's baya, *Ploceus megarhynchus salimali*. A. B. Misra has given an account of the annual reproductive cycles of some Indian birds. Talesara has determined iron content in the different layers of the

pigeon breast muscle on the basis of distribution pattern of the broad and narrow fibres.

(e) Mammalia

Hill has discussed the subgeneric classification of the Indo-Australian bats of the genus *Tadarida* and its four subgenera considered valid in the Indo-Australian region are defined and keyed. M. S. U. Siddiqi has given notes on the status of bats of the genus *Scotophilus* from Southern Asia, with key to the recognized forms. M. S. Siddiqi has given a checklist of mammals of Pakistan. Arslan has given an account of the Cowper's gland of *Funambulus pennanti*. Brosset has made some observations on the hibernation of bats in Western India. He has also given an account of ecology, behaviour and reproduction of *Rattus blanfordi* in Western India. Gee has given an account of the distribution and feeding habits of the golden langur, *Presbytis geei*. B. B. Gupta has studied the locomotion and the defensive mechanism of rolling in the Indian hedgehog, *Paraechinus micropus* and has described the disposition of the skeletal parts during rolling. George and Iype have determined lipase activity in the heart muscle of adult rats as well as young ones during post-natal development, while George and Susheela have studied the effect of starvation on the fat and protein contents and the lipase and succinic dehydrogenase activities in the three regions of the rat diaphragm.

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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., subsp. n., var. n., etc.

Phylum I. PROTOZOA

Class 1. Mastigophora

Order Polymastigina

Family (i) Chilomastigidae

1. *Chilomastix equi* Abraham
2. *Chilomastix wenyoni* Janakidevi
3. *Alexeiefella cheloni* Janakidevi (n.g., n.sp.)

Family (ii) Polymastigidae

4. *Hexamastix lacertae* Janakidevi
5. *Hexamastix dobelli* Janakidevi
6. *Monocercomonas lori* Rajender

Class 2. Sporozoa

Order (1) Gregarinida

Family (i) Stenophoridae

7. *Stenophora conjugata* Rodgi & Ball
8. *Stenophora procidua* Rodgi & Ball
9. *Stenophora falciformis* Rodgi & Ball
10. *Stenophora cassidiformis* Rodgi & Ball
- 10a. *Stenophora gryllodessigillatae* Narain

Family (ii) Gregarinidae

11. *Hirmocystis capritermis* Uttangi & Desai
12. *Hirmocystis incola* Uttangi & Desai
13. *Hirmocystis indica* Uttangi & Desai

Family (iii) Actinocephalidae

14. *Actinocephalus thyropygi* Rodgi & Ball

Order (2) Coccidia

Family Eimeriidae

15. *Eimeria pavonina* Banik
16. *Eimeria zygaenae* Chakravarty & Mandal
17. *Eimeria tropicalis* Malhotra
18. *Eimeria ovoidalis* Ray & Mandal
19. *Isospora fennechi* Prasad
20. *Isospora hoogstraali* Prasad

Class 3. Ciliata

Order (3) Trichostomata

Family Opalinidae

21. *Protoopalina asiatica* Uttangi

22. *Protoopalina metcalfi* Uttangi
23. *Protoopalina ornata* Uttangi
24. *Protoopalina larvata* Uttangi
25. *Zelleriella indica* Uttangi
- 25a. *Paraisotricha equi* Abraham

Order (1) Astomatida

Family Hoplitophryidae

26. *Radiophryoides puytoraci* Naidu

Order (2) Hypotrichida

Family Oxytrichidae

27. *Stylonychia oblongata* Chakravarty & Patra

Order (3) Heterotrichida

Family Plagiotomidae

28. *Nyctotherus hardwicki* Janakidevi

Phylum II. PLATYHELMINTHES

Class. I. Trematoda

Subclass (1) Monogenea

29. *Monaxine bivaginalis* Ramalingam
Genus *Paragemmaecaputia* Ramalingam (g.n.)
30. *Paragemmaecaputia crassicauda* Ramalingam
Genus *Bilateracotyloides* Ramalingam (g.n.)
31. *Bilateracotyloides carangis* Ramalingam
32. *Lithidiocotyle bivaginalis* Ramalingam
33. *Heteromicrocotyla vaginispina* Unnithan
34. *Heteromicrocotyla polyorchis* Unnithan
35. *Dicotyle vellavoli* Unnithan
Genus *Heterapta* Unnithan (g.n.)
36. *Heterapta heterapta* Unnithan

Subclass (2) Digenea

Family (i) Echinostomatidae

37. *Echinoparyphium bagulai* Jain
38. *Paryphostomum giganticum* Rai & Agarwal
Genus *Pseudoartychinostomum* Bhardwaj (g.n.)
39. *Pseudoartychinostomum larueiformis* Bhardwaj

Family (ii) Microphallidae

Genus *Mehraformis* Bhardwaj (g.n.)

40. *Mehraformis jabalpurensis* Bhardwaj

Family (iii) Heterophyidae

41. *Heterophyopsis yehi* Dissanaik

Family (iv) Cephalogonimidae

- 42.
- Cephalogonimus mokerjius*
- Rai

Family (v) Isoparorchidae

Genus *Elongoparorchis* Rao (g.n.)

- 43.
- Elongoparorchis pneumatis*
- Rao

Family (vi) Plagiorchiidae

44. *Allopharynx megorchis* Simha
 45. *Xenopharynx hirakudensis* Chatterji & Kruidenier
 46. *Xenopharynx sambalus* Chatterji & Kruidenier
 47. *Xenopharynx solus* Chatterji & Kruidenier

Class 2. Cestoda

Order (1) Cyclophyllidea

Family Anoplocephalidae

48. *Mathevotaenia hardoiensis* Johri
 49. *Oochoristica aulicus* Johri
 50. *Oochoristica bailea* Singal

Order (2) Caryophyllidea

Family Caryophyllaeidae

Genus *Capingentoides* Gupta (g.n.)

- 51.
- Capingentoides batrachi*
- Gupta

Genus *Lucknowia* Gupta (g.n.)

- 52.
- Lucknowia fossilisi*
- Gupta

Genus *Pseudocaryophyllaeus* Gupta (g.n.)

53. *Pseudocaryophyllaeus clariae* Gupta
 54. *Pseudocaryophyllaeus indica* Gupta

Phylum III. ASCHELMINTHES

Class Nematoda

55. *Acrobeles neocephalatus* Kannan
 56. *Acrobeles raoi* Kannan
 Genus *Ameeria* Ali (g.n.)

- 57.
- Ameeria sultanee*
- Ali

Genus *Amphimonhystrella* Timm (g.n.)

58. *Amphimonhystrella megastoma* Timm
 59. *Amplicaecum iguanae* Wahid
 60. *Aproctoides alii* Sultana
 61. *Bathylaimus setosicaudatus* Timm
 62. *Bolbella heptabulba* Timm
 63. *Brugia* (*Brugiella*) *buckleyi* Dissanaiké
 64. *Camacolaimus parvus* Timm
 65. *Campylaimus minor* Timm
 66. *Chromadorina paradoxa* Timm
 67. *Criconema brevicaudatum* Siddiqi

68. *Criconema pruni* Siddiqi
 69. *Criconema tenuicaudatum* Siddiqi
 70. *Criconemoides insigne* Siddiqi
 71. *Criconemoides parvulum* Siddiqi
 72. *Curvolaimus wieseri* Timm
 73. *Cyrnea singhi* Ali
 74. *Desmoscolex bengalensis* Timm
 75. *Dichelyne trionyx* Chakravarty & Majumdar
 76. *Dichelyne wallagoni* Chakravarty & Majumdar
 77. *Dichromadora apapillata* Timm
 78. *Dichromadora arcospiculum* Timm
 79. *Dichromadora simplex* Timm
 80. *Diplogasteritus pterygatus* Timm
 81. *Diplogastrellus dacchensis* Timm
 82. *Diplolaimelloides meylli* Timm
 83. *Eudiplogaster andrassyi* Timm
 84. *Excisa buckleyi* Ali

Genus *Gymnotylenchus* Siddiqi (g.n.)

85. *Gymnotylenchus zeae* Siddiqi
 86. *Habronema* (*Aviabronema*) *ameerae* Ali (subg.n.)
 87. *Habronema* (*Aviabronema*) *chabaudi* Ali
 88. *Habronema* (*Aviabronema*) *daleri* Ali
 89. *Habronema* (*Aviabronema*) *hyderabadensis* Ali
 90. *Habronema* (*Aviabronema*) *magnipapillatum* Ali
 91. *Habronema* (*Aviabronema*) *singhi* Ali
 92. *Habronema* (*Aviabronema*) *suraiya* Ali
 93. *Habronema* (*Aviabronema*) *wakeedae* Ali
 94. *Halalaimus* (*Halalaimus*) *lineatoides* Timm
 95. *Halalaimus* (*Halalaimus*) *lineatus* Timm
 96. *Halalaimus* (*Halalaimus*) *longistriatus* Timm
 97. *Halalaimus* (*Halalaimus*) *setosus* Timm
 98. *Halalaimus* (*Tyncnodora*) *filieollis* Timm
 99. *Halalaimus* (*Tyncnodora*) *luticolus* Timm
 100. *Halichoanolaemus longissimicauda* Timm
 101. *Halichoanolaemus minutissimus* Timm
 102. *Hemicriconemoides mangiferae* Siddiqi
 103. *Hemicyclophora indica* Siddiqi
 104. *Hemicyclophora lingualis* Kannan
 105. *Hoplolaimus steineri* Kannan
 106. *Hypodontolaimus macrodentatus* Timm
 107. *Isolaimium stictochroum* Timm
 108. *Lalage sykesii* Sultana
 109. *Latilaimus renatus* Timm
 110. *Lemdana alii* Sultana
 111. *Lemdana singhi* Sultana
 112. *Leptolaimus praeclarus* Timm

Genus *Lyranaema* Timm (g.n.)

- 113.
- Lyranaema speciosa*
- Timm

Genus *Macramphis* Timm (g.n.)

- 114.
- Macramphis sphaerolaimoides*
- Timm

Genus *Megalolaimus* Timm (g.n.)

- 115.
- Megalolaimus speculifer*
- Timm

116. *Mesacanthion armatus* Timm
 117. *Mesonchium punctatum* Timm.
 118. *Metachromadora* (*Bradylaimoides*) *benepapillatus* Timm (subg.n.)
 119. *Metachromadora* (*Metachromadoroides*) *complexa* Timm
 120. *Metachromadora* (*Metachromadoroides*) *vulgaris* Timm (subg.n.)

Genus *Metasabatiera* Timm (g.n.)

121. *Metasabatiera primigena* Timm
 122. *Microilaimus longispiculum* Timm

Genus *Monhysteroides* Timm (g.n.)

123. *Monhysteroides bulbiferus* Timm
 124. *Monhysteroides macramphidus* Timm
 125. *Mononchus* (*Mylonchulus*) *madrasii* Kannan
 126. *Mononchus* (*Mylonchulus*) *montanus* Thorne
 127. *Mononchus* (*Mylonchulus*) *trionchulus* Kannan (var.n.)
 128. *Mononchus* (*Mononchus*) *neotumbridgensis* Kannan
 129. *Mononchus rotundicaudatus* Kannan
 130. *Mononchus* (*Mylonchulus*) *subtenuis* var. *bionchus* Kannan (var.n.)

Genus *Neocamallanus* Chakravarty, Majumdar & Sain (g.n.)

131. *Neocamallanus heteropneusti* Chakravarty, Majumdar & Sain
 132. *Neochromadora* (*Trichodorina*) *nitida* Timm

Genus *Panduripharynx* Timm (g.n.)

133. *Panduripharynx ornatum* Timm
 134. *Paracanthonchus multitubifer* Timm
 135. *Paracanthonchus sonadae* Timm

Genus *Pararaeolaimus* Timm (g.n.)

136. *Pararaeolaimus megalomphidus* Timm
 137. *Paralinhomoeus dubius* Timm
 138. *Paurodontus similis* Siddiqi
 139. *Physaloptera buckleyi* Ali
 140. *Physaloptera indiana* Ali
 141. *Physaloptera microcauda* Ali
 142. *Physaloptera sultanae* Ali

Genus *Prodontorhabditis* Timm (g.n.)

143. *Prodontorhabditis pluvialis* Timm

Genus *Prolinhomoeus* Timm (g.n.)

144. *Prolinhomoeus purpureus* Timm
 145. *Pterygonema ornatum* Timm
 146. *Rhinema exquisita* Timm
 147. *Rhys longicauda* Timm

148. *Sphaerolaimus paradoxus* var. *crassus* Timm (var. n.)
 149. *Spilophorella aberrans* Timm
 150. *Spinitectus bengalensis* Chakravarty, Sain & Majumdar

Genus *Striatodora* Timm (g.n.)

151. *Striatodora brevibucca* Timm
 152. *Terschellingia viridis* Timm
 153. *Thelandros aspiculus* Khera
 154. *Theristus* (*Daptonema*) *parabutschlii* Timm
 155. *Theristus spirotheristus tortuosa* Timm (subsp.n.)

Genus *Trichromadorita* Timm (g.n.)

156. *Trichromadorita mobilis* Timm
 157. *Tricoma mirabilis* Timm
 158. *Tubolaimella bullatus* Timm
 159. *Tylenchorhynchus divittatus* Siddiqi
 160. *Tylenchorhynchus elegans* Siddiqi
 161. *Tylenchorhynchus indicus* Siddiqi
 162. *Vasostoma longispiculum* Timm
 163. *Wieseria longicauda* Timm
 164. *Xiphinema opisthohysterum* Siddiqi

Phylum IV. ANNELIDA

Class Chaetopoda

Order (I) Polychaeta

Family (i) Nereidae

Genus *Tambalagama* Pillai (g.n.)

165. *Tambalagama fauveli* Pillai

Family (ii) Eunicidae

166. *Lumbrineris pseudopolydesma* Pillai
 167. *Lumbrineris emandibulata* Pillai

Family (iii) Orbiniidae

168. *Scoloplos* (*Leodamus*) *gracilis* Pillai

Family (iv) Spionidae

169. *Laonice brevicristata* Pillai

Family (v) Opheliidae

170. *Anmotrypane grandis* Pillai

Family (vi) Capitellidae

171. *Heteromastides platyproctus* Pillai
 172. *Notomastus ceylonicus* Pillai
 173. *Heteromastus deductus* Pillai

Family (vii) Maldanidae

- 174.
- Axiiothella tambalagamensis*
- Pillai

Family (viii) Sabellidae

- 175.
- Potamilla brevithoracica*
- Pillai

Family (ix) Serpulidae

- 176.
- Hydroides tabalagamensis*
- Pillai

Family (x) Terebellidae

- 177.
- Loimia decora*
- Pillai

Order (2) Oligochaeta

Family Enchytraeidae

178. *Achaeta nielsenii* Prabhoo
 179. *Achaeta indica* Prabhoo
 180. *Hemienchytraeus theae* Prabhoo

Phylum V. MOLLUSCA

Order Eulamellibranchiata

Family Teredinidae

- 181.
- Bankia (Neobankia) roonwali*
- Rajagopalaiengar

Phylum VI. ARTHROPODA

Class 1. Crustacea

Subclass (a) Copepoda

Order Eucopopoda

Family (i) Caligidae

182. *Caligus amblygenitalis* Krishna Pillai
 183. *Caligus kanajusta* Krishna Pillai
 184. *Caligus indicus* Krishna Pillai
 185. *Caligus priacanthi* Krishna Pillai
 186. *Caligus lagocephali* Krishna Pillai
 187. *Caligus malabaricus* Krishna Pillai
 188. *Pseudocaligus fistulariae* Krishna Pillai

Genus *Indocaligus* Krishna Pillai (g.n.)

189. *Indocaligus echinus* Krishna Pillai
 190. *Caligus euthynus* Kurian
 191. *Caligus affinis* Kurian
 192. *Tuxophorus solandri* Kurian

Family (ii) Lernaecidae

- 193.
- Lernaecenicus alatus*
- Malati

Family (iii) Lernaepodidae

194. *Thysanote rastrelligeri* Malati
 195. *Thysanote eleutheronema* Malati

Family (iv) Taeniacanthidae

- 196.
- Parataeniacanthus cynogolsii*
- Rangnekar & Murti

Family (v) Anthosomidae

- 197.
- Lernanthropus pomadasysis*
- Rangnekar & Murti

Family (vi) Clausidiidae

- 198.
- Conchylurus maximus*
- Reddiah

Family (vii) Diaptomidae

199. *Heliodiaptomus alikunhii* Sehgal
 200. *Conchylurus bombasticus* Reddiah
 201. *Conchylurus fragilis* Reddiah

Subclass (b) Malacostraca

Order (1) Cumacea

Family Bodotriidae

202. *Bodotria minuta* Kurian
 203. *Iphione pigmenta* Kurian

Order (2) Mysidacea

Family Mysidae

204. *Siriella quilonensis* Krishna Pillai
 205. *Rhopalophthalmus tattersallae* Krishna Pillai
 206. *Rhopalophthalmus indicus* Krishna Pillai
 207. *Acanthomysis anomala* Krishna Pillai
 208. *Lycomysis platycauda* Krishna Pillai
 209. *Heteromysis macropsis* Krishna Pillai

Order (3) Decapoda

Family Potamonidae

- 210.
- Paratelphusa parvula*
- Fernando

Class 2. Arachnida

Family (i) Aceosejidae

- 211.
- Melichares (Blattisocius) daci*
- Narayanan & Lal

Family (ii) Olpiidae

- 212.
- Minniza loyolae*
- Murthy

Family (iii) Chthoniidae

213. *Tyrannochthonius* (*Tyrannochthonius*) *madrasensis* Murthy

Class 3. Pycnogonida
Family Nymphonidae

214. *Nymphon maldivensis* Clarke
215. *Cheilopallene brevicheila* Clarke

Class 4. Insecta
Order (1) Thysanura
Family Lepismatidae

216. *Ctenolepisma boettgerianum* Paclt

Order (2) Protura
Family Acerentomidae

217. *Acerentulus breviunguis* Conde

Order (3) Collembola

218. *Brachystomella surendrai* Goto

Order (4) Odonata
Family Libellulidae

219. *Orthetrum chandrabali* Mehrotra
220. *Orthetrum ganeshii* Mehrotra

Order (5) Orthoptera
Family Tridactylidae

221. *Tridactylus dreyfus* Fernando

Order (6) Dermaptera
Family Labiduridae

222. *Gonolabis calas* Fernando

Order (7) Dictyoptera
Family Blattidae

223. *Dorylaea archershee* Fernando

Order (8) Isoptera
Family Termitidae

224. *Angulitermes acutus* Mathur & Sen-Sarma

Order (9) Hemiptera
Family (i) Aphididae

225. *Cervaphis rappardi indica* Basu (subsp. n.)
226. *Tetraneura heterohirsuta* Carver & Basu

Family (ii) Pentatomidae

227. *Storthechoris longispinosus* Menon & Ghai

Order (10) Thysanoptera

Genus *Cerothrips* Ananthakrishnan (g.n.)

228. *Cerothrips minutus* Ananthakrishnan
229. *Anaphothrips* (*Neophysopus*) *sakimurai* Ananthakrishnan
230. *Rhopalandrothrips orchidii* Ananthakrishnan
231. *Dolichothrips* (*Dolichothrips*) *malhavii* Ananthakrishnan
232. *Thlibothrips malloti* Ananthakrishnan
233. *Dichaetothrips indicus* Ananthakrishnan

Genus *Paxillothrips* Ananthakrishnan (g.n.)

234. *Paxillothrips longicauda* Ananthakrishnan

Genus *Aesthesiothrips* Ananthakrishnan (g.n.)

235. *Aesthesiothrips jatrophae* Ananthakrishnan
236. *Barythrips mathuri* Ananthakrishnan
237. *Haplothrips* (*Chiraplothrips*) *priesneri* Ananthakrishnan
238. *Gigantothrips gardneri* Ananthakrishnan

Genus *Anaseirotithrips* Bhatti (g.n.)

239. *Anaseirotithrips arorai* Bhatti
240. *Allelothrips ananthakrishnani* Stannard

Order (11) Neuroptera
Family Hemerobiidae

241. *Hemerobius montanus* Kimmins
242. *Hemerobius adelgivorius* Kimmins

Order (12) Lepidoptera
Family (i) Crambidae

243. *Crambus coryolanus* Bleszynski
244. *Crambus athamas* Bleszynski
245. *Calamotropha alcesta* Bleszynski
246. *Calamotropha malaica* Bleszynski
247. *Calamotropha indica* Bleszynski
248. *Calamotropha pseudodielota* Bleszynski
249. *Calamotropha schwarzi* Bleszynski

250. *Calamotropha saturnella* Bleszynski
251. *Calamotropha venera* Bleszynski

Family (ii) Satyridae

252. *Coenonympha amaryllis forsteri* Forster (subsp. n.)

Family (iii) Lycaenidae

253. *Albulina orbitulus lobbichleri* Forster (subsp. n.)
254. *Polyommatus nepalensis* Forster

Family (iv) Hesperiidae

255. *Halpe seissa* Cantlie

Family (v) Geometridae

256. *Alcis leucophaea* Fletcher
257. *Alcis lobbichleri* Fletcher
258. *Alcis cosmeta* Fletcher
259. *Calocalpa acis* Fletcher
260. *Calocalpa confusaria epiocosa* Fletcher (subsp. n.)
261. *Calocalpa alternata epiodes* Fletcher (subsp. n.)
262. *Eustroma disrupta* Fletcher
263. *Gnophos calliceros* Fletcher
264. *Hemistola albioneura* Fletcher
265. *Heterolocha epicysta* Fletcher
266. *Kuldscha lobbichleri* Fletcher
267. *Perizoma molybda* Fletcher
268. *Perizoma amblydes* Fletcher
269. *Perizoma antisticta leucata* Fletcher (subsp. n.)
270. *Thera tephroptilus* Fletcher

Genus *Trigodes* Fletcher (g.n.)

271. *Trigodes polioxysta* Fletcher
272. *Dysstroma sagittiferata* Heydemann

Genus *Pseudodysstroma* Heydemann (g.n.)

273. *Pseudodysstroma nepalensis* Heydemann
274. *Dysstroma sagittiferata* Heydemann
275. *Eupithecia nepalata* Schutze
276. *Eupithecia pengata* Schutze
277. *Eupithecia lobbichlerata* Schutze
278. *Eupithecia mustangata* Schutze
279. *Eupithecia propoxydata* Schutze

Family (vi) Sphingidae

280. *Celerio galli nepalensis* Daniel (subsp. n.)

Family (vii) Aretiidae

281. *Agylla nepalica* Daniel
282. *Chionaema lobbichleri* Daniel

Order (13) Trichoptera Family (1) Psychomyiidae

283. *Ecnomus penjabii* Schmid
284. *Paduniella outtara* Schmid
285. *Paduniella magadha* Schmid
286. *Paduniella maurya* Schmid
287. *Psychomyia mahayinna* Schmid
288. *Psychomyia mahadenna* Schmid
289. *Psychomyia maharaksa* Schmid
290. *Psychomyia asvagosha* Schmid
291. *Tinodes kanerquorum* Schmid
292. *Tinodes asangha* Schmid
293. *Tinodes ghobarama* Schmid
294. *Tinodes matangana* Schmid

Family (ii) Polycentropodidae

295. *Plectrocnemia kalachorum* Schmid
296. *Plectrocnemia varouna* Schmid

Family (iii) Hydropsychidae

297. *Hydropsyche vasoumittra* Schmid
298. *Hydropsyche poushyamittra* Schmid
299. *Hydropsyche gautamittra* Schmid
300. *Diplectrona burha* Schmid
301. *Diplectronella kimalaksa* Schmid

Family (iv) Leptoceridae

302. *Setodes nagarjouna* Schmid
303. *Setodes madhyamika* Schmid
304. *Adicella dhruvasena* Schmid
305. *Adicella dharasena* Schmid
306. *Adicella narendraya* Schmid
307. *Oecetis eburnea* Schmid

Family (v) Limnophilidae

308. *Apatania kalariana* Schmid
309. *Apatania moharamana* Schmid
310. *Astratodina mihirakula* Schmid
311. *Pseudostenophylax aniketos* Schmid
312. *Pseudostenophylax dikaos* Schmid
313. *Limnophilus kaumarajiva* Schmid
314. *Psilopterna eukratida* Schmid

Family (vi) Lepidostomatidae

315. *Dinarthrum chotta* Schmid
316. *Dinarthrum surashtra* Schmid
317. *Dinarthrum bhataraka* Schmid
318. *Dinarthrum karagraha* Schmid
319. *Dinarthrum arachosicum* Schmid

Order (14) Diptera
Family (i) Tipulidae

320. *Dicranota (Rhaphidolabis) lacteipennis* Alexander
321. *Dicranota (Rhaphidolabis) shushna* Alexander
322. *Dicranota (Rhaphidolabis) indra* Alexander
323. *Dicranota (Rhaphidolabis) vajra* Alexander
324. *Dicranota (Rhaphidolabis) vritra* Alexander
325. *Dicranota (Rhaphidolabis) balarama* Alexander
326. *Phyllolabis brunetii* Alexander
327. *Phyllolabis edwardsi* Alexander
328. *Phyllolabis kumpa* Alexander
329. *Phyllolabis czizeki* Alexander
330. *Phyllolabis lacksehwitzii* Alexander
331. *Phyllolabis limboo* Alexander
332. *Phyllolabis mannheimsi* Alexander
333. *Phyllolabis moormi* Alexander
334. *Phyllolabis peusi* Alexander
335. *Phyllolabis senior-whitei* Alexander
336. *Gonomyia (Protoponomyia) aitholodes* Alexander
337. *Gonomyia (Euptilostena) moghalica* Alexander
338. *Gonomyia (Idiocera) involuta* Alexander
339. *Gonomyia (Idiocera) maharaja* Alexander
340. *Gonomyia (Lipophleps) curvistyla* Alexander
341. *Gonomyia (Lipophleps) dissimilis* Alexander
342. *Gonomyia (Lipophleps) nilgiriensis* Alexander
343. *Gonomyia (Gonomyia) ishana* Alexander

Family (ii) Trichoceridae

344. *Trichocera auripennis* Alexander
345. *Trichocera thaumastopyga* Alexander
346. *Trichocera bellula* Alexander
347. *Trichocera percincta* Alexander
348. *Trichocera superna* Alexander
349. *Trichocera variata* Alexander

Family (iii) Tanyderidae

350. *Protanyderus sikkimensis* Alexander
351. *Protanyderus venustipes* Alexander

Family (iv) Cecidomyiidae

352. *Asphondylia sesbaniae* Appukuttan
353. *Vanehidiplosis kamali* Grover
354. *Charidiplosis santhali* Grover
355. *Meinertomyia ovalis* Grover

Family (v) Stratiomyidae

356. *Chorisops apicalis* Frey
357. *Chorisops marginata* Frey
358. *Chorisops tibialis* Frey
359. *Chorisops fraterna* Frey

Family (vi) Tabanidae

Genus *Hippocentroides* Philip (g.n.)

360. *Hippocentroides desmotes* Philip
361. *Chrysozona alticola* Philip
362. *Hybomitra lamades* Philip

Family (vii) Phoridae

363. *Phalacrotophora (Omatessara) indiana* Colyer

Family (viii) Trypetidae

364. *Callantra munroi* Zaka-ur-rab

Family (ix) Agromyzidae

365. *Agromyza ceylonensis* Spencer
366. *Agromyza hordei* Spencer
367. *Agromyza pennisetivora* Spencer
368. *Melanagromyza cleomae* Spencer
369. *Melanagromyza compositarum* Spencer
370. *Melanagromyza hibisci* Spencer
371. *Melanagromyza polyphaga* Spencer
372. *Ophiomyia cicerivora* Spencer

Family (x) Chloropidae

373. *Lagaroceras curtum* Sabrosky
374. *Mepachymerus giganteus indicus* Frey (subsp. n.)

Family (xi) Muscidae

375. *Fannia indica* Chillcott

Order (15) Hymenoptera

Family (i) Diprionidae

376. *Gilpinia pindrowi* Benson

Family (ii) Tenthredinidae

377. *Caliroa coerulea* Malaise
378. *Caliroa cyanea* Malaise
379. *Caliroa glabrifrons* Malaise
380. *Hemibeleses ventripicta* Malaise
381. *Hemibeleses nigronotum* Malaise
382. *Formosempria shanensis* Malaise
383. *Formosempria annamensis* Malaise

Genus *Emphystegia* Malaise (g.n.)

384. *Emphystegia apicimacula* Malaise
385. *Neoxenapates tamuli* Malaise
386. *Neoxenapates birmensis* Malaise

387. *Empronus styx* Malaise
388. *Empronus fulvus* Malaise

Genus *Kambaitia* Malaise (g.n.)

389. *Kambaitia maculiscuta* Malaise
390. *Kambaitia fulvipicta* Malaise
391. *Kambaitia albipicta* Malaise

Genus *Busarbina* Malaise (g.n.)

392. *Busarbina verticalis* Malaise

Genus *Ferna* Malaise (g.n.)

393. *Ferna longiserra* Malaise
394. *Ferna brevigenata* Malaise
395. *Ferna punctifossa* Malaise
396. *Ferna latifrons* Malaise
397. *Ferna bullifrons* Malaise
398. *Ferna acutiserra* Malaise

Genus *Oralia* Malaise (g.n.)

399. *Oralia nigroclypeata* Malaise
400. *Oralia pallidipes* Malaise
401. *Oralia fossulata* Malaise
402. *Oralia nigripalpis* Malaise

Genus *Clypea* Malaise (g.n.)

403. *Clypea sino-birmana* Malaise
404. *Clypea shanica* Malaise

Genus *Ungulia* Malaise (g.n.)

405. *Ungulia fasciiventris* Malaise
406. *Ocla glabrifrons* Malaise
407. *Ocla punctata* Malaise
408. *Abeleses birmanus* Malaise
409. *Abeleses versicolor* Malaise
410. *Heptamelus genalis* Malaise
411. *Heptamelus brunneiventris* Malaise
412. *Heptamelus marginatus* Malaise
413. *Heptamelus birmanus* Malaise

Family (iii) Ichneumonidae

414. *Zaglyptus indicus* Gupta
415. *Zaglyptus indicus indicus* Gupta (subsp. n.)
416. *Zaglyptus glaber* Gupta
417. *Zaglyptus miarus* Gupta
418. *Zaglyptus indicus nigrithorax* Gupta (subsp. n.)
419. *Zaglyptus glaber glaber* Gupta (subsp. n.)
420. *Zaglyptus nigrolineatus* Gupta

Family (iv) Braconidae

421. *Apanteles bagicha* Narayanan & Subba Rao

Family (v) Pteromalidae

422. *Norbanus acuminatus* Dutt & Ferriere

Family (vi) Encyrtidae

423. *Aphidencyrtus qudrui* Alam
424. *Blastothrix coryli* Alam
425. *Neodiscodes indicus* Narayanan & Subba Rao
426. *Comperiella lemniscata* Compere & Annecke

Family (vii) Eulophidae

427. *Euderus agromyzae* Gangrade

Family (viii) Mymaridae

428. *Lymaenon nigroides* Narayanan & Subba Rao
429. *Lymaenon delhiensis* Narayanan & Subba Rao
430. *Polynema (Polynema) indica* Narayanan & Subba Rao
431. *Polynema (Polynema) truncata* Narayanan & Subba Rao
432. *Polynema (Polynema) thornypoda* Narayanan & Subba Rao
433. *Polynema (Stephanodes) imbricatus* Narayanan & Subba Rao

Family (ix) Scelionidae

434. *Allophanurus indicus* Subba Rao & Chacko
435. *Hadrophanurus karnalensis* Chacko & Katiyar

Family (x) Bethylinidae

436. *Mystrocnemis madrasensis* Kurian & Mathen
437. *Rhabdopyris rhizoperthae* Menon, Chatterji & Sarup

Family (xi) Pompilidae

438. *Hemipepsis princeps perdecora* Wahis (subsp. n.)
439. *Hemipepsis binghami* Wahis
440. *Hemipepsis assamensis* Wahis
441. *Hemipepsis sericata* Wahis

Order (16) Coleoptera

Family (i) Silphidae

442. *Choleva (Cholevopsis) henroti* Szymczakowski
443. *Nemadus longipilus* Szymczakowski

Family (ii) Pselaphidae

444. *Batrasiella lewisi* Jeannel
445. *Batrasiella puberula* Jeannel

Genus *Cratnodes* Jeannel (g.n.)

446. *Cratnodes lewisi* Jeannel
 447. *Ctenistes (Tecnistes) ceylonicus* Jeannel (subg. n.)
 448. *Diroptus prognathus* Jeannel

Genus *Leptorrachis* Jeannel (g.n.)

449. *Leptorrachis nigra* Jeannel

Genus *Manuleiger* Jeannel (g.n.)

450. *Manuleiger remyi* Jeannel

Genus *Nesiotomina* Jeannel (g.n.)

451. *Nesiotomina longicollis* Jeannel
 452. *Pselaphaulax (Pselaphaulax) ceylonicus* Jeannel
 453. *Pyxidicerus remyi* Jeannel
 454. *Sunorfa quadraticollis* Jeannel
 455. *Tmesiphorus laevis* Jeannel
 456. *Trissemus (Trissemites) ceylonicus* Jeannel

Family (iii) Coccinellidae

457. *Epilachna karenensis* Kapur
 458. *Stethorus keralicus* Kapur

Family (iv) Tenebrionidae

459. *Palorus shikhae* Sarup, Chatterji & Menon
 460. *Derispia mayae* Chatterji, Sarup & Menon

Family (v) Cerambycidae

461. *Eryssamena sikkimensis* Breuning
 462. *Trachelophora andamanica* Breuning

Genus *Trichohoplorana* Breuning (g.n.)

463. *Trichohoplorana dureli* Breuning
 464. *Pterolophia (Lychrosis) bicolor* Breuning

Genus *Sodopsis* Breuning (g.n.)

465. *Sodopsis curvifascia* Breuning

Genus *Trichodiboma* Breuning (g.n.)

466. *Trichodiboma clytoides* Breuning

Genus *Mimaeschopalea* Breuning (g.n.)

467. *Mimaeschopalea ornata* Breuning

Genus *Pseudocentruopsis* Breuning (g.n.)

468. *Pseudocentruopsis flavosignata* Breuning
 469. *Nupserha subpuncticollis* Breuning

470. *Nupserha subpuncticollis rufiapiciventris* Breuning (subsp. n.)

471. *Phlyarus basirufipennis* Breuning
 472. *Eoporis elegans andamanensis* Breuning (subsp. n.)
 473. *Mimaeschopalea sikkimensis* Breuning
 474. *Glenea (Aridoglenea) biannulata* Breuning

Family (vi) Curculionidae

475. *Nassophasis albomaculatus* Menon & Parshad
 476. *Apion tamarixus* Menon & Parshad
 477. *Bagous trapae* Parshad
 478. *Alcidodes fervidus* Haaf
 479. *Alcidodes separandus* Haaf
 480. *Alcidodes desertus* Haaf
 481. *Alcidodes saturnus* Haaf
 482. *Alcidodes delicatulus* Haaf
 483. *Alcidodes distinctus* Haaf
 484. *Alcidodes tumidus* Haaf
 485. *Alcidodes paetus* Haaf
 486. *Alcidodes inquietus* Haaf
 487. *Alcidodes biplagiatus* Haaf
 488. *Alcidodes profanus* Haaf
 489. *Alcidodes harmonicus* Haaf
 490. *Alcidodes serotinus* Haaf
 491. *Alcidodes fornicatus* Haaf
 492. *Alcidodes lugubris* Haaf
 493. *Alcidodes notabilis* Haaf

Family (vii) Scarabaeidae

494. *Aphodius (Phalacrothorus) haafi* Petrovitz
 495. *Aphodius (Nialus) translucidus* Petrovitz
 496. *Aphodius (Nialus) insularis* Petrovitz
 497. *Psammobius pellucens* Petrovitz

Phylum VII. CHORDATA

Class 1. Teleostei

Order Cypriniformes

Family (i) Cyprinidae

498. *Bascanichthys deraniyagalai* Menon

Family (ii) Amphipnoidae

499. *Amphipnous indicus* Silas & Dawson

Family (iii) Soleidae

500. *Aseraggodes ocellatus* Weed

Class 2. Aves

Order Passeriformes

Family (i) Corvidae

501. *Dendrocitta vagabunda bristooli* Paynter (subsp. n.)

Family (ii) Paridae

502. *Parus rubidiventris saramatii* Ripley (subsp. n.)

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Zoogeography & Faunistic: 838.
Systematics: 1070.

8. ANNELIDA

Morphology: 779.
Cytology: 630.
Physiology: 1202, 1369, 1370.
Ecology: 133.
Control: 976.
Faunistic & Zoogeography: 209.
Systematics: 996, 999, 1442.

9. ARTHROPODA

(a) Crustacea

General: 138, 139, 512, 513, 697, 846, 997, 1097, 1126, 1265, 1444.
Morphology: 136, 398, 541, 844, 1192.
Development: 416, 663, 1267.
Histology & Cytology: 787, 1110.
Economic: 1266.
Physiology: 17, 18, 19, 20, 47, 880, 940, 972, 1069, 1079, 1117, 1425, 1496, 1497.
Ecology: 411, 429, 702, 796, 1071.
Zoogeography & Faunistic: 313, 1470.
Systematics: 333, 467, 718, 719, 777, 994, 995, 1107, 1108, 1146, 1147, 1200, 1237.
Palaeontology: 597.

(b) Arachnida

General: 386, 1429.
Morphology: 9, 570, 1517.
Development: 388, 800.
Histology & Cytology: 1206, 1283, 1404.
Bionomics: 749.
Physiology: 8, 504, 651, 694, 740.
Ecology: 10, 49, 340, 965, 990, 1048, 1316, 1354, 1504, 1505.
Economic & Control: 1020, 1327.
Faunistic: 744, 749, 910.
Systematics: 489, 873, 1488.

(c) Myriapoda

Ecology: 229.

(d) Insecta

General: 110, 295, 315, 466, 664, 712, 713, 790, 791, 809, 825, 893, 915, 930, 975, 1059, 1223, 1226, 1306, 1341, 1356, 1383.

(i) Thysanura

Physiology: 816.
Systematics: 938.

(ii) Protura

Systematics: 336.

(iii) Collembola

Development: 319.
Ecology: 320.
Cytology: 998.
Systematics: 532.

(iv) Odonata

Morphology: 806, 807, 1036, 1037.
Cytology: 127.
Systematics: 822.
Faunistic: 206, 207.

(v) Orthoptera

General: 959, 1163.
Morphology: 112, 191, 408, 418, 682, 736, 737, 901.
Histology & Cytology: 354, 355, 356.
Physiology: 120, 121, 122, 789, 989, 1003, 1010.
Ecology: 161, 162, 190, 191, 192, 193, 194, 195, 196, 524, 666, 688, 1315.
Control: 734, 1003, 1010, 1150, 1323.
Evolution: 112.
Systematics: 469, 1482.
Development: 259, 666.
Faunistic: 1482.

(vi) Dermaptera

Development: 636.
Morphology: 581, 634, 635, 801.
Cytology: 1094.
Physiology: 801.
Ecology: 111, 172, 1095.
Zoogeography & Faunistic: 184.
Systematics: 469, 1096.

(vii) Dictyoptera

Morphology: 801.
Physiology: 801, 1408.
Cytology: 346.
Systematics: 469.

(viii) Isoptera

Morphology: 724, 726, 1174.
Cytology: 144.
Ecology: 725, 1175, 1255.
Control: 219, 1170, 1171.
Systematics: 692, 811, 812.

(ix) Siphunculata

Physiology: 1276.
Development: 310.
Systematics: 402, 403.

(x) Hemiptera

Morphology: 54, 55, 56, 57, 128, 210, 401, 543, 544, 623, 681, 709, 710, 711, 766, 768, 798, 803, 804, 805, 835, 862, 863, 1039, 1131, 1132, 1205, 1329.
Development: 33, 177, 841, 854, 869, 1391, 1410, 1471, 1472, 1525.
Histology & Cytology: 606, 722, 746, 1291, 1411.
Physiology: 200, 201, 300, 482, 739, 768, 1130, 1203, 1220, 1221, 1411, 1475.
Bionomics: 33, 210, 1471.
Ecology: 15, 293, 347, 370, 374, 484, 515, 705, 751, 767, 798, 1030, 1035, 1045, 1047, 1074, 1152, 1160, 1562.
Economic & Control: 81, 96, 103, 106, 178, 210, 211, 283, 564, 614, 632, 978, 1005, 1160, 1185, 1203, 1207, 1208, 1243, 1244, 1269, 1303, 1318, 1336, 1339, 1499.
Zoogeography & Faunistic: 156, 287, 517, 827.
Systematics: 157, 257, 622, 745, 780, 830, 831.

(xi) Thysanoptera

Ecology: 52, 53, 186, 579, 733.
Development: 594.
Systematics: 58, 59, 60, 61, 216, 1413.

(xii) Neuroptera

Systematics: 686.

(xiii) Lepidoptera

Morphology: 255, 256, 832, 1396, 1397, 1532.
Biology & Development: 117, 181, 220, 292, 1253, 1304, 1388, 1390, 1398.
Bionomics: 32, 1385, 1389, 1508.
Physiology: 13, 108, 145, 179, 180, 181, 204, 551, 624, 626, 667, 738, 931, 963, 1252, 1407, 1434, 1477.
Ecology: 84, 102, 119, 163, 298, 371, 372, 373, 514, 607, 847, 890, 937, 982, 1112, 1151, 1158, 1249, 1292, 1328, 1376, 1386, 1395, 1433, 1478, 1501, 1503, 1507, 1509.
Economic & Control: 31, 87, 95, 105, 119, 155, 220, 580, 588, 593, 640, 642, 643, 727, 891, 934, 935, 977, 1009, 1038, 1046, 1081, 1251, 1338, 1384, 1385, 1388, 1389, 1390, 1394, 1398, 1508.
Zoogeography & Faunistic: 339, 471, 817.
Genetics: 332.
Systematics: 227, 228, 254, 471, 473, 585, 870, 1231.

(xiv) Trichoptera

Systematics: 1230.

(xv) Diptera

General: 1451.
Morphology: 535, 571, 801, 927, 928, 1104, 1334, 1363.
Development: 523, 534, 698, 752, 932, 1102, 1129.
Physiology: 209, 213, 338, 522, 801, 821, 865, 1073, 1188, 1526.
Ecology: 30, 152, 309, 464, 535, 584, 700, 701, 872, 981, 1157, 1159, 1188, 1343.
Economic & Control: 748, 896, 1007, 1344, 1345, 1377.
Genetics: 699.
Zoogeography & Faunistic: 274, 358, 818, 1182.
Systematics: 37, 38, 39, 40, 109, 316, 334, 475, 476, 538, 539, 993, 1124, 1367, 1524, 1531.

(xvi) Siphonoptera

Ecology: 1232, 1234.
Physiology: 387, 1274.
Bionomics: 1233.
Morphology: 1275.

(xvii) Hymenoptera

General: 294, 1044.
Morphology: 34, 35, 36, 335, 914, 916, 1476.
Development: 62, 367, 368, 369, 921.
Histology & Cytology: 1271.
Bionomics: 472.
Evolution: 385.
Physiology: 63, 301, 590, 907, 1337, 1417, 1418.
Ecology: 172, 441, 836, 1127, 1128, 1280, 1416, 1420, 1502.
Economic & Control: 83, 275, 565, 1519.
Systematics: 36, 174, 258, 483, 563, 716, 717, 776, 829, 911, 912, 913, 917, 918, 919, 920, 1123, 1415, 1473, 1521, 1522.
Zoogeography & Faunistic: 909, 1419.

(xviii) Coleoptera

Morphology: 278, 359, 678, 679, 801, 802, 1307, 1308.
Development: 130, 296, 1101, 1347.
Histology & Cytology: 16, 153, 615, 1109.
Genetics: 1224.
Bionomics: 439, 679, 1190, 1485.
Physiology: 21, 22, 65, 165, 179, 253, 633, 669, 801, 837, 899, 961, 962, 1004, 1008, 1288, 1289, 1360, 1405, 1406, 1412.
Ecology: 4, 297, 721, 723, 728, 808, 810, 826, 828, 833, 1029, 1034, 1082, 1120, 1153, 1392.
Economic & Control: 82, 179, 185, 641, 741, 852, 1004, 1008, 1033, 1099, 1287, 1288, 1378, 1455, 1456.
Systematics: 114, 115, 176, 239, 240, 241, 242, 299, 569, 610, 656, 657, 834, 900, 967, 992, 1204, 1430.

(xix) Insect Pests, Control & Insecticides

1, 85, 86, 88, 89, 90, 91, 97, 98, 99, 100, 101, 104, 107, 116, 118, 141, 164, 175, 205, 247, 248, 249, 250, 251, 288, 302, 337, 349, 362, 389, 399, 474, 486, 521, 591, 625, 627, 628, 638, 645, 680, 714, 715, 729, 742, 747, 772, 799, 813, 814, 839, 859, 864, 887, 888, 905, 906, 908, 944, 1002, 1006, 1011, 1027, 1043, 1049, 1050, 1061, 1075, 1119, 1148, 1149, 1156, 1172, 1173, 1177, 1225, 1239, 1240, 1247, 1250, 1325, 1326, 1332, 1335, 1340, 1341, 1342, 1343, 1354, 1355, 1373, 1374, 1375, 1382, 1393, 1399, 1443, 1453, 1474, 1518.

10. CHORDATA

(a) Pisces

General: 28, 66, 67, 74, 75, 76, 77, 78, 79, 80, 132, 140, 217, 218, 246, 282, 390, 412, 413, 414, 415, 417, 454, 618, 720, 845, 857, 923, 960, 1125, 1235, 1358, 1401, 1500.
Morphology: 154, 311, 361, 377, 378, 379, 383, 430, 443, 617, 619, 654, 673, 677, 735, 762, 763, 771, 794, 823, 843, 871, 886, 922, 964, 1053, 1072, 1103, 1227, 1228, 1236, 1277, 1278, 1279, 1351, 1361, 1362, 1400, 1437, 1438, 1458, 1459, 1460, 1506, 1516.
Development: 42, 70, 72, 342, 344, 345, 365, 480, 637, 655, 730, 731, 732, 795, 897, 939, 943, 1105, 1184, 1187, 1368, 1402, 1403, 1436, 1483.
Histology & Cytology: 41, 317, 341, 691, 886, 1211, 1215, 1216, 1261.
Economic: 64, 924, 925, 933.
Physiology: 50, 51, 71, 129, 331, 343, 380, 381, 382, 582, 583, 755, 943, 1012, 1051, 1052, 1056, 1134, 1145, 1189, 1212, 1213, 1214, 1238, 1260, 1347, 1371, 1372, 1510.
Ecology: 69, 73, 134, 366, 397, 431, 444, 461, 479, 530, 662, 730, 731, 1054, 1055, 1184, 1286, 1348, 1349, 1498.
Zoogeography & Faunistic: 360, 442, 639, 761, 778, 1310.
Systematics: 608, 620, 621, 824, 1057, 1311, 1527.

(b) Amphibia

Morphology: 187, 519, 676, 1273, 1431.
Development: 428, 1414.
Histology & Cytology: 376, 652.
Physiology: 158, 159, 160, 286, 312, 375, 743, 851.
Systematics: 1441.

(c) Reptilia

Morphology: 393, 520, 596, 773, 774, 775.
Development: 166, 1414.

Histology & Cytology: 197, 567, 568, 652, 793, 1263, 1281, 1282, 1422, 1423.

Physiology: 971.

Ecology: 14, 363, 364, 988, 1469.

Evolution: 1489.

Zoogeography & Faunistic: 395.

(d) Aves

General: 124, 245, 497, 1209, 1210.
Morphology: 169, 226, 470, 674, 675, 1186, 1262, 1530.
Development: 230, 231, 232, 1098, 1121.
Histology & Cytology: 215, 266, 267, 268, 269, 426, 427, 793, 1017, 1144, 1272, 1352, 1432, 1447.
Physiology: 123, 252, 311, 384, 424, 425, 445, 500, 501, 502, 505, 508, 509, 518, 555, 556, 592, 704, 840, 983, 1122, 1222, 1229, 1353, 1432, 1449, 1450, 1512.
Ecology: 2, 3, 397, 405, 406, 407, 459, 460, 470, 491, 498, 499, 687, 894, 987, 1041, 1042, 1191, 1322, 1409, 1448, 1528.
Zoogeography & Faunistic: 223, 224, 1161, 1289.
Systematics: 225, 1161, 1491, 1492, 1493, 1494, 1495.

(e) Mammalia

General: 1013, 1164, 1201, 1284, 1299, 1317, 1381.
Morphology: 113, 126, 167, 168, 170, 171, 202, 203, 208, 318, 458, 462, 463, 545, 546, 547, 548, 586, 598, 599, 1023, 1133, 1193, 1290, 1359, 1511.
Development: 550, 644, 683, 707, 1414.
Histology & Cytology: 199, 277, 653, 792, 793, 903, 1016, 1180, 1181.
Physiology: 5, 12, 131, 147, 148, 149, 150, 187, 188, 197, 214, 221, 222, 234, 235, 236, 237, 238, 276, 279, 280, 281, 284, 285, 289, 290, 303, 304, 311, 324, 325, 326, 327, 329, 330, 348, 350, 357, 410, 420, 421, 437, 438, 455, 456, 457, 488, 490, 503, 506, 507, 531, 533, 540, 549, 552, 553, 554, 631, 658, 659, 660, 661, 668, 672, 708, 753, 756, 757, 758, 759, 760, 764, 765, 769, 788, 855, 861, 866, 867, 942, 947, 948, 949, 950, 956, 957, 973, 974, 986, 1000, 1001, 1025, 1076, 1083, 1118, 1135, 1137, 1138, 1140, 1178, 1217, 1218, 1219, 1246, 1324, 1435, 1490, 1514, 1531.
Ecology: 11, 243, 244, 306, 397, 462, 492, 493, 494, 495, 586, 858, 1001, 1014, 1024, 1100, 1193, 1285, 1309, 1365, 1366.
Evolution: 397.
Economic: 29, 702.
Zoogeography & Faunistic: 395, 1166, 1169.
Control: 696, 1154, 1155.
Systematics: 394, 1300.
Palaeozoology: 396.

