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A Bibliography of Indology

(Enumerating Basic Publications on all Aspects of Indian Culture)

Vol. 2

Indian Botany

Part II

K—Z

Compiled by

V. NARAYANASWAMI

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A BIBLIOGRAPHY OF INDOLOGY

Vol. 1 — Indian Anthropology

Vol. 2, Pt. 1 — Indian Botany, Authors A — J

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* Titles under compilation.

FOREWORD

This is Part II comprising the letters K—Z, of the *Bibliography of Indian Botany,* which itself is Volume II of a series belonging to the project of the *Bibliography of Indology*. The third part comprising the author and the subject indexes is under compilation.

I am sorry that the compiler of this Bibliography did not live to see this printed volume. He died shortly after the first part of his work had been published.

My thanks go to the authorities and the staff of the Libraries of the Asiatic Society of Bengal, Calcutta; the Botanical Survey of India, Calcutta (including the Indian Botanical Gardens at Sibpur); and the Department of Botany, University of Calcutta, who extended every facility and co-operation to the staff of the Bibliography Division of this Library in checking the references available in their individual collections.

Shri Ajit Kumar Ghosh, Technical Assistant, Shri Rameswar Chatterjee, Junior Technical Assistant and Shri Ashoke Chandra Basu Rai Chaudhuri, Typist, who worked under the general guidance of Dr. A. K. Ohdedar, Assistant Librarian, for the compilation of this volume deserve my thanks.

My thanks are also due to Messrs. Nalanda Press, Calcutta, for their collaboration in the production of this technical publication.

I hope that this volume also, like the previous one, will prove to be helpful to the scholars.

National Library, Belvedere, Calcutta,
28th December, 1964.

Y. M. MULAY,
Librarian.

TABLE OF ABBREVIATIONS

Aberd. Univ. Stud.	Aberdeen University Studies. Aberdeen.
Abh. K. Acad. Wiss. Ber.	Abhandlungen der Kgl. Akademie der Wissenschaften. Berlin.
Abh. naturf. Ges. Halle.	Abhandlungen der Naturforschenden Gesellschaft zu Halle. Halle.
Abh. naturw. Ver Bremen.	Abhandlungen hrsg. vom Naturwissenschaftlichen Verein zu Bremen.
Act. Soc. Linn. Bordeaux.	Actes de la Société linnéenne de Bordeaux.
Acta Hort. berg.	Acta Horti Bergiani. Meddelanden fran Kongl. Svenska Vetenskaps-Akademiens trädgard, Bergielund, Stockholm.
Acta Hort. gothoburg.	Acta Horti gothoburgensis. Meddelanden fran Göteborgs botaniska Trädgard. Göteborg.
Acta Hort. Petropol.	Acta Horti Petropolitani. St. Petersburg.
Acta Inst. bot. Acad. Sci. U.R.S.S.	Acta Instituti Botanici Academiae Scientiarum U.R.S.S. Moscou.
Acta phytotax. Kyoto.	Acta Phytotaxonomica et Geobotanica. Kyoto.
Acta Soc. Sci. fenn.	Acta Societatis Scientiarum Fennicae. Helsingforsiae.
Acta Univ. Lund.	Acta Universitatis Lundensis. Lund.
Adansonia *Addisonia*	Addisonia. New York.
Agra Univ. J. Res.	Agra University Journal of Research (Science). Agra.
Agric. & Anim. Husb. U. P.	Agriculture and Animal Husbandry in U. P.
Agric. Bull. Str. Malay St.	Agricultural bulletin of the Straits and Federated Malay States. Singapore. (Continued as Agricultural Bulletin, Federated Malay States. Qualalumpur).
Agric. J. India.	Agricultural Journal of India, Pusa. (Continued as Indian Journal of Agricultural Science).
Agric. Ledger.	The Agricultural Ledger, Calcutta.

Agric. Live-Stk. India.	Agriculture and Live-Stock in India. Delhi. (Continued as Indian Farming).
Agron. lusit.	Agronomia lusitana. Sacavém.
Allahabad Univ. Stud.	Allahabad University Studies. Allahabad.
Allg. GartnZtg.	Allgemeine Gärtnerzeitung. Wien.
Amer. Fern J.	American Fern Journal. Port Richmond.
Amer. J. Bot.	American Journal of Botany. Lancaster. Issued by the Botanical Society of America.
Amer. Midl. Nat.	American Midland Naturalist. Notre Dame.
Amer. Potato J.	American Potato Journal. Washington.
Ancient India.	Ancient India, an organ of the Archaeological Survey of India. Delhi.
Andhra Univ. bot. Ass. Mag.	Andhra University Botanical Association Magazine.
Angew. Bot.	Angewandte Botanik. Berlin.
Ann. Accad. agr. Torino.	Annuario Accademia Agraria. Torino.
Ann. Bot. Lond.	Annals of Botany. London.
Ann. Bot. Paris.	Annales de Botanique. Paris.
Ann. bryol. Hague.	Annales bryologici. The Hague.
Ann. hist.-nat. Mus. hung.	Annales Historico-Naturales Musei Nationalis Hungarici. Budapest.
Ann. Inst. bot. Cavanilles.	Anales del Instituto botanico A. J. Cavanilles. Madrid. (Continuation of Anales, Jardin botanico de Madrid).
Ann. Jard. bot. Buitenz.	Annales du Jardin botanique de Buitenzorg. Buitenzorg.
Ann. Jard. bot. Madrid.	Anales, Jardin botanico de Madrid.
Ann. Mag. nat. Hist.	Annals and Magazine of natural History. London.
Ann. Missouri bot. Gdn.	Annals of the Missouri Botanic Garden, St. Louis.
Ann. Mus. bot. Lugduno Batavi.	Annales Musei botanici Lugduno Batavi. Leyden.
Ann. Mus. col. Marseille.	Annales du Musée colonial de Marseille.
Ann. Mus. Hist. nat. Paris.	Annales du Muséum nationale d'Histoire naturelle. Paris.

Ann. mycol. Berl.	Annales mycologici. Berlin.
Ann. R. bot. Gdn. Calcutta.	Annals of the Royal Botanic Garden, Calcutta.
Ann. R. bot. Gdn. Peradeniya.	Annals of the Royal Botanic Gardens, Peradeniya, Ceylon.
Ann. Rept. Miss. bot. Gdn.	Annual report. Missouri Botanical Gardens. St Louis.
Ann. Rept. Saurashtra Res. Soc.	Annual Report of the Saurashtra Research Society. Rajkot.
Ann. Rept. Smith. Inst.	Annual Report of the Board of Regents of the Smithsonian Institution, Washington.
Ann. Rev. biochem. alld. Res.	Annual Review of biochemical and allied Research in India. Bangalore.
Ann. Sci. nat. Bot. *Ann. Sci. nat.*	Annales des Sciences naturelles, Botanique. Paris.
Ann. Sci. phys. nat.	Annales des Sciences physiques et naturelles d'Agriculture et de l'industrie. Paris.
Arb. bot. Inst. Braunsberg.	Arbeiten aus dem Botanischen Institut des K. Lyzeum Hosianum in Braunsberg.
Arch. bot. Forli.	Archivio botanico per la systematica, fitogeografia e genetica. Forli.
Arch. Mus. Hist. nat. Paris.	Archives du Muséum d'Histoire naturelle. Paris.
Arch. Protistenk.	Archiv für Protistenkunde. Jena.
Ark. Bot.	Arkiv för Botanik. Uppsala.
Asiat. Res.	Asiatic Researches or Transactions of the Society, instituted in Bengal for enquiring into the History, Antiquities, Arts and Sciences and Literature of Asia. Calcutta.
Assoc. Franc. Av. Sc. Cong. Lille.	Association française pour l'Avancement des Sciences, Congrés de Lille.
Atti Nuovi Accad. Lincei.	Atti della Accademia pontificia dei Nuovi Lincei. Roma.
Beibl. bot. Jb.	Beiblatt botanische Jahrbuch.
Beih. bot. Zbl.	Beihefte zum botanischen Zentralblatt. Cassel.
Ber. dtsch. bot. Ges.	Bericht der Deutschen botanischen Gesellschaft. Berlin.

Ber. schweiz. bot. Ges.	Bericht der Schweizerischen botanischen Gesellschaft. Bern.
Bibl. bot. Stuttgart.	Bibliotheca botanica. Stuttgart.
Bibliogr. Contr. Lloyd. Libr.	Bibliographical Contributions from the Lloyd Library. Cincinnati.
Bibliogr. ital.	Bibliografia italiana; Sect. A., Scienze matematiche, fisiche e biologiche. Roma.
Bih. svensk. Vetensk Akad. Handl.	Bihang till Kgl. svenska Vetenskapsakademiens Handlingar. Stockholm.
Biol. Abst.	Biological Abstract. Menasha, Philadelphia.
Biol. Rev.	Biological Reviews and biological Proceedings of the Cambridge Philosophical Society. Cambridge.
Biol. Zbl.	Biologisches Zentralblatt. Leipzig.
Biologia.	Biologia: a monthly news letter—supplement to Chronica Botanica. Waltham, Mass.
Blumea.	Blumea. Tijdschrift voor de Systematik en de Geografie der Planten. Leiden.
Bombay. Br. R. Asiat. Soc.	Bombay Branch of the Royal Asiatic Society. Bombay.
Bombay Gaz.	Bombay Gazette.
Bombay geogr. Mag.	Bombay Geographical Magazine. Bombay.
Bot. Arch.	Botanisches Archiv. Berlin.
Bot. Arch. mex.	Botanico Archivo mexicano.
Bot. Gaz.	Botanical Gazette. Chicago.
Bot. Jb.	Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie. Leipzig.
Bot. Mag.	*See* Curtis's Bot. Mag.
Bot. Mag. Tokyo.	Botanical Magazine, Tokyo Imperial University, Japan. Tokyo.
Bot. Mus. Leafl. Harv.	Botanical Museum Leaflets, Harvard University, Cambridge, Mass.
Bot. Notiser.	Botaniska Notiser. Lund.
Bot. Reg.	Botanical Register; ed. by S. Edwards & others. London.

Bot. Rev.	**Botanical Review. Lancaster, Pa.**
Bot. Stud.	**Botaniska Studien. Upsala.**
Bot. Ztg.	**Botanische Zeitung. Berlin and Leipzig.**
Brittonia.	Brittonia. New York.
Bryologist.	Bryologist. Brooklyn.
Bull. Acad. int. Geogr. bot.	Bulletin de l'Académie internationale de Géographie botanique. Le Mans.
Bull. Acad. Sci. Cracovie.	Bulletin de la Académie des Sciences de Cracovie.
Bull. Acad. Sci. U. P.	Bulletin of the Academy of Sciences of the United Provinces of Agra & Oudh. Allahabad.
Bull. agric. for. Coll. Suigen.	Bulletin of the Agricultural and Forestry College. Suigen, Chosen.
Bull. amer. Delph. Soc.	Bulletin of the American Delphinium Society. Chicago.
Bull. appl. Bot. Pl.-Breed.	Bulletin of applied Botany and Plant Breeding, Leningrad. (Continuation of Bulletin of Applied Botany, St. Petersburgh).
Bull. Bombay. Dept. Agric.	*See* Bull. Dept. Agric. Bombay.
Bull. bot. Soc. Bengal.	Bulletin of the Botanical Society of Bengal. Calcutta.
Bull. bot. Soc. Univ. Saugar. *Bull. bot. Soc. Saugar.*	Bulletin of the Botanical Society of the University of Saugar. Saugar.
Bull. Chrys. Soc. Amer.	Bulletin of the Chrysanthemum Society of America.
Bull. Coll. Agric. Tokyo.	Bulletin of the College of Agriculture, Tokyo Imperial University. Tokyo.
Bull. Dept. Agric. Bombay.	Bulletin of the Department of Agriculture, Bombay. Bombay.
Bull. Dept. Agric. Burma.	Bulletin of the Department of Agriculture, Burma.
Bull. Dept. Agric. Neerland.	Bulletin du Department de l'Agriculture aux Indes Neerlandaises. Buitenzorg.
Bull. Herb. Boiss. Geneve.	Bulletin de l'Herbier Boissier. Genève.
Bull. Indian cent. Jute Comm.	Bulletin of the Indian Central Jute Committee. Calcutta.
Bull. Jard. bot. Buitenz.	Bulletin du Jardin botanique de Buitenzorg. Buitenzorg.

Bull. Jard. bot. Brux.	Bulletin du Jardin botanique de l'Etat á Bruxelles. Bruxelles.
Bull. Jard. bot. U.R.S.S.	Bulletin du Jardin botanique de l'Académie des Sciences de l'URSS.
Bull. Libr. U. S. Dept. Agric.	Bulletin, Library of the United States Department of Agriculture. Washington.
Bull. Madras Govt. Mus.	Bulletin of the Madras Government Museum. Madras.
Bull. Miyazaki Coll. Agric. For.	Bulletin, Miyazaki College of Agriculture and Forestry. Miyazaki.
Bull. Mus. Hist. nat. Paris.	Bulletin du Muséum d'Histoire naturelle. Paris.
Bull. N. Y. bot. Gdn.	Bulletin of the New York Botanical Garden.
Bull. nat. Inst. Sci. India.	Bulletin of the National Institute of Sciences of India. New Delhi.
Bull. Sch. orient. Stud. Lond. Univ.	Bulletin, School of Oriental (and African) Studies, London University. London.
Bull. Sci. Fr. Belg.	Bulletin scientifique de la France et de la Belgique. Londres, Paris, Berlin.
Bull. Sci. Pharm.	Bulletin des Sciences pharmacologiques. Paris.
Bull. Soc. Bot. Belg.	Bulletin, Société R. de Botanique de Belgique. Bruxelles.
Bull. Soc. bot. Bulg.	Bulletin de la Société botanique de Bulgarie. Sofia.
Bull. Soc. bot. Fr.	Bulletin, Société botanique de France. Paris.
Bull. Soc. bot. Ital.	Bollettino della Società botanica italiana. Firenze.
Bull. Soc. linn. Normandie.	Bulletin de la Société Linnéenne de Normandie. Caen.
Bull. Soc. nat. Moscou.	Bulletin de la Société des Naturalistes de Moscou.
Bull. Soc. Pharm. Calvados.	Bulletin de la Société des Pharmaciens du Calvados. Caen.
Bull. Soc. Tosc. Ort.	Bollettino della R. Società toscana d'Orticultura. Firenze.
Bull. Torrey bot. Cl.	Bulletin of the Torrey Botanical Club. New York.

Bull. U. S. Bur. Pl. Ind.	Bulletin, United States Department of Agriculture, Bureau of Plant Industry. Washington.
Bull. U. S. Dept. Agric.	Bulletin, United States Department of Agriculture. Washington.
Burma For. Bull.	Burma Forest Bulletin. Rangoon.
C. P. & Berar For. Bull.	Central Province and Berar Forest Bulletin. Nagpur.
C. R. Acad. Sci. Paris.	Comptes Rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.
C. R. Acad. Sci. U.R.S.S.	Comptes Rendus de la Académie des Sciences de la URSS. Leningrad.
C. R. Lab. Carlsberg.	Compte Rendu des Travaux Laboratoire de Carlsberg. Copenhagen.
Cactus & Succ. J.	Cactus and Succulent Journal. Los Angeles.
Calcutta J. nat. Hist.	Calcutta Journal of natural History. Calcutta.
Calcutta Rev.	Calcutta Review. Calcutta.
Calif. Citrogr.	California Citrograph. Los Angeles.
Canad. J. Res.	Canadian Journal of Research. Ottawa.
Candollea.	Candollea, Organe du Conservatoire et du Jardin botaniques de la ville de Genève.
Caryologia.	Caryologia, Giornale de Citologia, Citosistematica e Citogenetica. Torino.
Castanea.	Castanea. Journal of the Southern Appalachian Botanical Club. Morgantown.
Cellule.	Cellule. Lierre.
Ceylon For.	Ceylon Forester.
Ceylon J. Sci.	Ceylon Journal of Science (Section A, Botany). Colombo.
Chemist & Druggist.	Chemist & Druggist. London.
China J.	China Journal (of Science and Arts). Sanghai.
Chromosoma.	Chromosoma, Zeitschrift für Zellkern und Chromosomenforschung. Berlin.
Chron. bot.	Chronica botanica. Leiden. Waltham, Mass.

Circ. agric. J. Ceylon.	Circular and Agricultural Journal of the Royal Botanical Garden, Peradeniya. Ceylon.
Contr. bot. Lab. Univ. Pa.	Contributions from the Botanical Laboratory, University of Pennsylvania. Philadelphia.
Contr. Gray Herb. Harv.	Contribution from the Gray Herbarium of the Harvard University. Cambridge, Mass.
Curr. Sci.	Current Science. Bangalore.
Curtis bot. Mag.	Curtis's botanical Magazine. London.
Cytologia.	Cytologia. Tokyo.
DC. Monogr. Phan.	De Candolle's Monographiae Phanerogamarum Prodromi nunc continuatro nunc revisio.
DC. Prodr. Syst. Nat.	De Candolle's Prodromus Systematis Naturalis Regni Vegetabilis. Paris.
Denkschr. Akad. Wiss. Wien.	Denkschriften der Kais. Akademie der Wissenschaften. Wien.
Ecology.	Ecology. Brooklyn.
Econ. Bot.	Economic Botany. Lancaster, Pa.
Emp. J. exp. Agric.	Empire Journal of experimental Agriculture. Oxford.
Everyday Science.	Everyday Science. London.
Experientia.	Experientia. Basel.
Fl. Serr. Gard.	Flore des Serres et des Jardins de l'Europe. Gand.
Flora.	Flora, oder allgemeine botanische Zeitung. Jena.
For. Bull.	Forest Bulletin. Dehra Dun.
Forestry.	Forestry. London.
Garden.	Garden. London.
Gartenztg.	Gartenzeitung der Osterreichischen Gartenbaugesellschaft in Wien.
Gdnrs' Chron.	Gardeners' Chronicle and agricultural Gazette. London.
Genet. iber.	Genetica iberica. Madrid.
Genetica.	Genetica. Gravenhage.
Gentes Herb. Ithaca.	Gentes Herbarium, Ithaca, New York. Occassional Papers.

Geogr. J.	Geographical Journal, including the proceedings of the Royal Geographical Society. London.
Giorn. I. R. Ist. Lombardo Sci.	Giornale della I. R. Istituto Lombardo di Scienze. Milan.
Hedwigia.	Hedwigia, organ für Kryptogamenkunde und Phytopathologie. Dresden.
Hereditas.	Hereditas, genetiskt Arkiv. Lund.
Himalayan J.	Himalayan Journal. Oxford.
Hk. J. Bot.	Hooker's Journal of Botany and Kew Garden Miscellany; ed. by W. J. Hooker. London.
Hk's Fl. Brit. India.	Hooker's Flora of British India; ed. by J. D. Hooker.
Hook. bot. Misc.	Botanical Miscellany; ed. by W. J. Hooker; 1830-1833. [Continued as (1) Journal of Botany, 1834-1842; (2) London Journal of Botany, 1842-1848; (3) Hooker's Journal of Botany and Kew Garden Miscellany, 1849-1857].
Hook. Icon Plant.	Hooker's Icones Plantarum, or, Figures with descriptive characters and remarks of new and rare plants, selected from the Kew Herbarium. London.
Hydrobiologia.	Hydrobiologia. Acta hydrobiologica, limnologica et protistologica. Den Haag.
Illustr. Gart. Ztg.	Wiener illustrierte Gartenzeitung. Wien.
Indian agric. Sci.	*See* Indira J. agric. Sci.
Indian Ann. Med. Sci.	Indian Annals of Medical Science. Calcutta.
Indian Ecol.	Indian Ecologist. Bombay.
Indian Fmg.	Indian Farming. Delhi.
Indian For.	Indian Forester. Indian Forest Research Institute, Dehra Dun.
Indian For. Leaflet.	Indian Forest Leaflets. Indian Forest Research Institute, Dehra Dun.
Indian For. Rec.	Indian Forest Records. Indian Forest Research Institute, Dehra Dun.
Indian geogr. J.	Indian Geographical Journal. Madras.
Indian J. agric. Sci	Indian Journal of agricultural Science. Delhi.

Indian J. dairy Sci.	Indian Journal of dairy Science. Bangalore.
Indian J. Genet.	Indian Journal of Genetics and Plant Breeding. New Delhi.
Indian J. Hort.	Indian Journal of Horticulture. Sabour.
Indian J. med. Res.	Indian Journal of Medical Research. Calcutta.
Indian J. med. Sci. Calcutta.	Indian Journal of Medical Science. Calcutta.
Indian J. mycol. Res.	Indian Journal of mycological Research. Calcutta.
Indian J. Pharm.	Indian Journal of Pharmacy. Benaras.
Indian J. Sug. Res. Dev.	Indian Journal of Sugar Research and Development.
Indian med. Gaz.	Indian medical Gazette. Calcutta.
Indian Pharm.	Indian Pharmacist. Calcutta.
Indian Phytopath.	Indian Phytopathology. Indian Phytopathological Society. New Delhi.
Indian Plantg. Gdng.	Indian Planting and Gardening. Calcutta.
Indian Rubb. Bd. Bull.	Indian Rubber Board Bulletin.
Indian Sci. Abst.	Indian Science Abstract; Botany. Calcutta.
J. agric. Res.	Journal of agricultural Research. Washington.
J. agric. Sci.	Journal of agricultural Science. Cambridge.
J. agri.-hort. Soc. India.	Journal of the Agri-horticultural Society of India. Calcutta.
J. Amer. pharm. Assn.	Journal of the American Pharmaceutical Association. Columbus.
J. Annamalai Univ.	Journal of the Annamalai University. Annamalainagar.
J. Arnold Arbor.	Journal of the Arnold Arboretum, Harvard University. Lancaster, Pa.
J. Asiat. Soc. Bengal.	Journal of the Asiatic Society of Bengal; Pt. 2—Science. Calcutta. (Continued as Journal and Proceedings of the Asiatic Society of Bengal as a new series from 1904).
J. Bd. Agric.	Journal of the Board of Agriculture and Fisheries. London.

J. Benaras Hindu Univ.	Journal of the Benaras Hindu University. Benaras (Varanasi).
J. biol. Soc. Assam.	Journal of the Biological Society of Assam. Gauhati.
J. Bombay Br. R. Asiat. Soc.	Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.
J. Bombay nat. Hist. Soc.	Journal of the Bombay Natural History Society. Bombay.
J. Bot. & Kew. Gard. Misc.	Journal of Botany and Kew Garden Miscellany.
J. Bot. Lond.	Journal of Botany, British and Foreign. London.
J. Burma Res. Soc.	Journal of the Burma Research Society. Rangoon.
J. Ceylon Br. R. Asiat. Soc.	Journal of the Ceylon Branch of the Royal Asiatic Society. Colombo.
J. Coll. Agric. Tokyo.	Journal of the College of Agriculture, Imperial University of Tokyo. Tokyo.
J. Dept. Sci. Calcutta Univ.	Journal of the Calcutta University, Department of Sciences. Calcutta.
J. Ecol.	Journal of Ecology. London.
J. exp. Bot.	Journal of experimental Botany. Oxford.
J. F. M. S. Mus.	Journal of the Federated Malay States Museums, Kuala Lumpur.
J. Fac. Sci. Hokkaido Univ.	Journal of the Faculty of Science, Hokkaido Imperial University. Sapporo. Section 5—Botany.
J. Fac. Sci. Tokyo. Univ.	Journal of the Faculty of Science, Tokyo Imperial University. Tokyo.
J. For.	Journal of Forestry. Washington.
J. Genet.	Journal of Genetics. Cambridge.
J. Genet. & Plt. Breed.	Journal of Genetics and Plant Breeding.
J. Gujarat Res. Soc.	Journal of the Gujarat Research Society. Bombay.
J. Hattori bot. Lab.	Journal of the Hattori Botanical Laboratory.
J. Hered.	Journal of Heredity. Washington.
J. Hyg. Camb.	Journal of Hygiene. Cambridge.
J. Indian Bot.	Journal of Indian Botany. Madras. (Continued as the Journal of the Indian Botanical Society)

J. Indian bot. Soc.	Journal of the Indian Botanical Society. Madras.
J. Karnatak Univ.	Journal of the Karnatak University. Dharwar.
J. Linn. Soc.	Journal of the Linnean Society, Botany. London.
J. M. S. Univ. Baroda.	Journal of the Maharaja Sayaji Rao's University. Baroda.
J. Madras agric. Stud. Un.	Journal of the Madras Agricultural Students Union. Madras.
J. Madras Univ.	Journal of the Madras University. Madras.
J. Mysore Univ.	Journal of the Mysore University. Bangalore.
J. Osmania Univ.	Journal of the Osmania University. Hyderabad, Dn.
J. Pharm. Lond.	Journal of Pharmacy and Pharmacology. London.
J. & Proc. Asiat. Soc. Bengal.	Journal and Proceedings of the Asiatic Society of Bengal. Calcutta. (Continuation of the Journal of Asiatic Society of Bengal).
J. Proc. Linn. Soc.	Journal of the Proceedings of the Linnean Society. London.
J. R. Asiat. Soc. Bengal.	*See* J. Asiat. Soc. Bengal.
J. R. geogr. Soc.	Journal of the Royal Geographical Society. London.
J. R. hort. Soc.	Journal of the Royal Horticultural Society. London.
J. R. micr. Soc.	Journal of the Royal Microscopical Society. London.
J. S. Afr. Bot.	Journal of South African Botany. Capetown.
J. Sci. Club. Calcutta.	Journal of the Science Club. Calcutta.
J. Sci. Hiroshima Univ.	Journal of Science of the Hiroshima University, Hiroshima, Japan. Series B—Zoology and Botany.
J. sci. industr. Res.	Journal of scientific and industrial Research. New Delhi.
J. Sci. Res. Benaras Hindu Univ.	Journal of scientific Research, Benaras Hindu University. Benaras.
J. Soc. trop. Agric. Taiwan.	Journal of the Society of Tropical Agriculture. Taiwan.

J. Straits Br. R. Asiat. Soc.	Journal of the Straits Branch of the Royal Asiatic Society. Singapore.
J. Travancore Univ.	Journal of the Travancore University. Trivandrum.
J. Univ. Bombay.	Journal of the University of Bombay. Bombay.
J. Univ. Gauhati.	Journal of the University of Gauhati. Gauhati.
J. Univ. Poona.	Journal of the University of Poona. Poona.
J. Wash. Acad. Sci.	Journal of the Washington Academy of Sciences. Washington.
Jap. J. Bot.	Japanese Journal of Botany. Tokyo.
Jap. J. Genet.	Japanese Journal of Genetics. Tokyo.
Jb. bot. Gart. Berl.	Jahrbuch des Koniglicher botanischen Gartens und des Museums zu Berlin. Berlin.
Jb. wiss. Bot.	Jahrbuch für wissenschaftliche Botanik. Berlin.
Jber. schless. Ges. vater. Kult.	Jahresbericht der Schlesischen Gesellschaft für vaterländische Kultur. Breslau.
Jber. Ver. angew. Bot.	Jahresbericht der Vereinigung für Angewandte (der Verbreter der Angewandten) Botanik. Berlin.
Just's Jber.	Just's botanischer Jahresbericht. Berlin.
K. danske. vidensk. Selsk.	Kongelige Danske Videnskabernes Selskabs Skrifter. Copenhagen.
K. svenska Vatensk. Akad. Handl.	Kongliga Svenska Vetenskapsakademiens Handlinger. Stockholm.
Kans. Univ. Sci. Bull.	Kansas University Science Bulletin. Lawrence.
Kew Bull.	Kew Bulletin of Miscellaneous information. Royal Botanic Gardens, Kew. London.
Linnaea.	Linnaea. Institut botanique de l'Universite de Genéve.
Liverp. Bull.	Liverpool Bulletin.
Lloydia.	Lloydia: a quarterly Journal of biological Sciences. Manasha.
Lond. J. Bot.	London Journal of Botany; ed. by W. J. Hooker.

Loris.	Loris, a Journal of Ceylon Wild life. Colombo.
Lucknow Univ. Stud.	Lucknow University Studies. Lucknow.
Lunds Univ. Arskr.	Lunds Universitets Årskrift. Lund.
M. O. P. Iyengar Comm. Vol.	M. O. Parthasarathy Iyengar Commemoration volume; Published by Indian Botanical Society. Bangalore.
Madras agric. J.	Madras agricultural Journal. Madras. (Formerly known as Journal of the Agricultural Students' Union, Madras).
Madras J. Lit. & Sci.	Madras Journal of Literature and Science. Madras.
Madras Quart. J. med. Sci.	Madras Quarterly Journal of medical Science. Madras.
Malay For. Rec.	Malayan Forest Records. Kuala Lumpur.
Malpighia.	Malpighia. Rassegna mensuale di Botanica. Messina, Geneva.
Math. naturw. Ber. Ung.	Mathematische und naturwissenschaftliche Berichte aus Ungarn. Leipzig.
Med. bot. Mus. Rijksuniv.	Mededeelingen van het Botanisch Museum en Herbarium van de Rijks-Universiteit te Utrecht.
Med. Hist.	Medical History, a quarterly Journal devoted to the history and bibliography of medicine and related series.
Meded. Rijks-Herb.	Mededeelingen van's Rijks-Herbarium. Leiden.
Mem. Amer. Acad. Arts Sci.	Memoirs of the American Academy of Arts and Sciences Boston.
Mem. & Mem.	Memoirs and Memoranda, chiefly Botanical; Collected papers of D. Prain, 1887-1893. Calcutta, 1894.
Mem. Dept. Agric. India.	Memoirs of the Department of Agriculture in India, Botanical series. Pusa, New Delhi.
Mem. Fac. Sci. Agric. Taihoku.	Memoirs of the Faculty of Science and Agriculture, Taihoku Imperial University. Formosa.
Mem. geol. Surv. India.	Memoirs of the Geological Survey of India. Calcutta.
Mem. Indian bot. Soc.	Memoirs of the Indian Botanical Society. Madras.

Mem. Mus. Hist. nat. Paris.	Mémoires. Muséum nationale d'Histoire naturelle. Paris.
Mem. Soc. Amis. Sci. nat. Moscou.	Mémoires de la Société (Impériale) des Amis des Sciences naturelles, d'Anthropologie et d'Ethnographie. Moscou.
Mem. Soc. Hist. nat. Paris.	Mémoires, Société d'Histoire naturelle de Paris.
Mem. Soc. Sci. Hainault.	Mémoires et Publications de la Société des Sciences, des Arts et des Lettres du Hainault. Mons.
Mem. Torrey bot. Cl.	Memoirs of the Torrey botanical Club. New York.
Mem. Wern. Soc.	Memoirs of the Wernerian natural History Society. Edinburgh.
Mich. Acad. Sci. Arts. Letters.	Michigan Academy of Sciences, Arts and Letters.
Minnesota bot. Stud.	Minnesota botanical Studies. St. Paul.
Misc. Publ. U. S. Dept. Agric.	Miscellaneous Publications, U. S. Department of Agriculture. Washington.
Mitt. bot. Mus. Univ. Zurich.	Mitteilungen aus dem Botanischen Museum der Universität Zürich.
Mitt. dtsch. dendrol. Ges.	Mitteilungen des Deutschen dendrologischen Gesellschaft. Bonn.
Monatsb. Ges. Erdk. Ber.	Monatsberichte der Gesellschaft für Erdkunde. Berlin.
Mycologia.	Mycologia. Lancaster, Pa.
Mysore agric. J.	Mysore agricultural Journal. Bangalore.
Mysore For. J.	Mysore Forest Journal.
Mysore Univ. J.	*See* J. Mysore Univ.
Natural appl. Sci. Bull.	Natural and Applied Science Bulletin. University of the Philippines. Manila.
Nature.	Nature. London.
New Phytol.	New Phytologist. London.
North Point Ann.	North Point Annual. Darjeeling.
Notes bot. Sch Trin. Coll. Dublin.	Notes from the Botanical School of Trinity College, Dublin.
Notes R. bot. Gdn. Edinb.	Notes from the Royal Botanic Garden. Edinburgh.
Notizbl. bot. Gart. Berl.	Notizblatt des Koniglicher botanischen Gartens und Museums zu Berlin.

Nouv. Acad. Brux.	Nouveaux Mémoires Académie Royale des Sciences et Belles-Lettres de Bruxelles.
Nouv. Mem. Soc. helvet. Sci. nat.	Nouveaux Mémoires Société helvétique des Sciences naturelles. Zürich.
Nova Acta Leop. Carol.	Nova Acta Academiae Caesareae Leopoldino-Carolinae Germanicae naturae Curiosorum. Halle.
Nova Acta Physicomed. Acad. Leop.	Nova Acta Physicomedica Academie Caesareae Leopoldino-Carolinae Naturae Curiosorum. Halle.
Nova Acta Soc. Sci. upsal.	Nova Acta Regiae Societatis Scientiarum upsaliensis. Upsala.
Nucleus.	Nucleus.
Nuovo. G. bot. ital.	Nuovo Giornale botanico italiano. Florence.
Ohio J. Sci.	Ohio Journal of Science. Columbus.
Ohio Nat.	Ohio Naturalist. Columbus.
Orchid Rev.	Orchid Revue. London.
Ore. St. Monogr. Bot.	Oregon State Monographs; Studies in Botany. Corvallis.
Ost. bot. Z.	Osterreichische botanische Zeitschrift. Wien.
Pakist. J. For.	Pakistan Journal of Forestry.
Pakist. J. Sci.	Pakistan Journal of Science. Lahore.
Palaeobotanist.	Palaeobotanist. Lucknow.
Palaeont. Indica.	Palaeontologia Indica. Memoirs of the Geological Survey of India. Calcutta.
Pap. Mich. Acad. Sci.	Papers from the Michigan Academy of Science, Arts and Letters. New York.
Paxton's Bot. Mag.	Paxton's Botanical Magazine.
Pflanzenarzt.	Pflanzenarzt. Wien.
Pflanzenfam.	Die naturalischen Pflanzenfamilien; ed. by A. Engler and K. Prantl.
Pflanzenreich.	Das Pflanzenreich; ed. by A. Engler and K. Prantl.
Phanerogamie.	Phanérogamie. Notulae systematicae. Herbier du Muséum d'Histoire naturelle. Paris.
Pharm. J.	Pharmaceutical Journal and Pharmacist. London.

Phil. Trans.	Philosophical Transactions of the Royal Society; Botany. London.
Philipp. agric. Rev.	The Philippine Agricultural Review. Manila.
Philipp. Bur. Agric. Bull.	Bulletin, Bureau of Agriculture, The Philippines. Manila.
Philipp. J. Sci.	The Philippine Journal of Science. Manila.
Phytologia.	Phytologia. New York.
Phytomorph.	Phytomorphology. New Delhi.
Phyton.	Phyton, Annales rei botanicae. Horn, N. O.
Phytopath.	Phytopathology. Lancaster, Pa.
Plant Physiol.	Plant Physiology. Lancaster, Pa.
Planta.	Planta, Archiv für wissenschaftlische Botanik. Berlin.
Poona agric. Coll. Mag.	Poona Agricultural College Magazine. Poona.
Poona Univ. J.	*See* J. Univ. Poona.
Portug. acta biol.	Portugaliae Acta Biologica. Lisbon.
Proc. Acad. nat. Sci. Philad.	Proceedings of the Academy of Natural Sciences of Philadelphia.
Proc. Acad. Sci. U. P.	Proceedings of the Academy of Sciences of the United Provinces of Agra and Oudh. Allahabad.
Proc. Amer. Acad. Arts Sci.	Proceedings of the American Academy of Arts and Sciences. Boston.
Proc. Amer. pharm. Ass.	Proceedings of the American Pharmaceutical Association. Baltimore.
Proc. Amer. Soc. hort. Sci.	Proceedings, American Society for Horticultural Science. College Park, Md.
Proc. Asiat. Soc. Bengal.	Proceedings of the Asiatic Society of Bengal. Calcutta.
Proc. Bihar Acad. agric. Sci.	Proceedings of the Bihar Academy of Agricultural Science.
Proc. biol. Soc. Wash.	Proceedings of the Biological Society of Washington. Washington.
Proc. Camb. phil. Soc.	Proceedings of the Cambridge Philosophical Society. Cambridge.
Proc. Ceylon Ass. Adv. Sci.	Proceedings of the Ceylon Association for the Advancement of Sciences. Colombo.

Proc. geol. Soc. S. Afr.	Proceedings of the Geological Society of South Africa. Johannesburg.
Proc. Glasgow phil. Soc.	Proceedings of the Royal Philosophical Society of Glasgow.
Proc. imp. Acad. Japan.	Proceedings of the Imperial Academy of Japan. Tokyo.
Proc. Indian Acad. Sci.	Proceedings of the Indian Academy of Sciences, Section B. Bangalore.
Proc. ... Indian Sci. Cong.	Proceedings of the ... Indian Science Congress.
Proc. ... Internat. bot. Cong.	Proceedings of the ... International botanical Congress.
Proc. ... Internat. geol. Cong.	Proceedings of the ... International Geological Congress.
Proc. Lahore phil. Soc.	Proceedings of the Lahore Philosophical Society. Lahore.
Proc. Leeds phil. lit. Soc. *Proc. Leeds. phil. Soc.*	Proceedings of the Leeds Philosophical and Literary Society. Leeds.
Proc. Linn. Soc. Lond.	Proceedings of the Linnean Society. London.
Proc. Linn. Soc. N. S. W.	Proceedings of the Linnean Society of New South Wales. Sydney.
Proc. nat. Acad. Sci. India.	Proceedings of the National Academy of Sciences, India. Allahabad.
Proc. nat. Inst. Sci. India.	Poceedings of the National Institute of Sciences of India; Biological Sciences. New Delhi.
Proc. ... Pacific. Sci. Cong.	Proceedings of the ... Pacific Science Congress.
Proc. R. geogr. Soc.	Proceedings of the Royal Geographical Society. London.
Proc. R. Soc.	Proceedings of the Royal Society; Botany. London.
Proc. Rajasthan Acad. Sci.	Proceedings of the Rajasthan Academy of Sciences. Pillani.
Publ. Fac. Sci. Univ. Masaryk.	Publications of the Faculty of Science, University of Masaryk.
Publ. Field Mus.	Publications, Field Museum of Natural History; Botanical Series.
Quart. J. geol. Soc.	Quarterly Journal of the Geological Society of London. London.

Quart. J. geol. Soc. India.	Quarterly Journal of the Geological, Mining and Metallurgical Society of India. Calcutta.
Quart. J. med. & phys. Soc.	Quarterly Journal of the Medical & Physical Society of Calcutta.
Quart. J. Pharm.	Quarterly Journal (and year book) of Pharmacy & allied Sciences (and Pharmacology). London.
Rec. bot. Surv. India.	Records of the Botanical Survey of India. Calcutta.
Rec. geol. Surv. India.	Records of the Geological Survey of India. Calcutta.
Rec. Indian Mus.	Records of the Indian Museum. Calcutta.
Rec. Trav. bot. neerl.	Recueil des Travaux botaniques néerlandais. Société botanique néerlandaise. Nimègue.
Reinwardtia.	Reinwardtia. Keburn Raya.
Repert. nov. Spec. Regn. veg.	Repertorium novarum Specierum Regni vegetabilis. Berlin.
Repert. nov. Spec. Regn. veg. Beih.	Repertorium novarum Specierum Regni vegetabilis. Beihefte.
Kept. Brit. Ass.	Report of the British Association for the Advancement of Science. London.
Rept. geol. Surv. India.	General report of the Geological Survey of India. Calcutta.
Kept. Tohoku Imp. Univ.	Report, Taihoku Botanic Garden, Taihoku Imperial University. Formosa.
Res. Bull. Punjab Univ.	Research Bulletin of the Punjab University. Lahore.
Rev. algol.	Revue algologique. Paris.
Rev. bryol. lichen.	Revue bryologique et lichenologique. Paris.
Rev. hort. Belg.	Revue horticole Belgique. Liege.
Rev. Zool. Bot. afr.	Revue de Zoologie et de Botanique africaines. Bruxelles.
S. B. Akad. Wiss. Wien.	Sitzungsberichte der Kaiserliche Akademie Wissenschaften. Wien.
S. B. bayer. Akad. Wiss.	Sitzungsberichte der Konigliche Bayerischen Akademie der Wissenschaften, Mathematisch-physikalichen Classe München.

Sci. Agric.	Scientific Agriculture. Ottawa.
Sci. & Cult.	Science and Culture. Calcutta.
Sci. Mem. med. Offrs. Army India.	Scientific Memoirs by the Medical Officers of the Army of India. Calcutta.
Sci. Progr.	Science Progress in the Twentieth Century. London.
Science.	Science. New York.
South Indian Hort.	South Indian Horticulture.
Spediz. Ital. Filippi.	Spedizione italiana de Filippi. Relazioni scientifiche.
Spolia zeylan.	Spolia Zeylanica. Colombo Museum. Colombo.
Stain Tech.	Stain Technology. Genève.
Studia citrol.	Studia Citrologica. Tanaka Citrus Experiment Station, Fukuokaken, Japan.
Subtropiki.	Subtropiki. Sukhum.
Svensk bot. Tidskr.	Svensk botanisk Tidskrift. Stockholm.
Sydowia.	Sydowia, Annales mycologici. Horn, N. O.
Symb. bot. upsalıens.	Symbolae botanicae Upsalienses.
Tabul. Biol.	Tabulae biologicae (periodicae). The Hague.
Taprobanian.	Taprobanian, A Dravidian Journal of Oriental Studies. Bombay.
Taxon.	Taxon. International Bureau of Plant Taxonomy and Nomenclature. Utrecht.
Torreya.	Torreya. Torrey botanical Club. New York.
Trans. agri-hort. Soc. India.	Transactions of the Agri-horticultural Society of India. Calcutta.
Trans. Amer. mycol. Soc.	Transactions of the American Mycological Society.
Trans. Amer. phil. Soc.	Transactions of the American Philosophical Society. Philadelphia.
Trans. Bose Res. Inst.	Transactions of the Bose Research Institute. Calcutta.
Trans. bot. Soc. Edinb.	Transactions and Proceedings of the Botanical Society of Edinburgh. Edinburgh.

Trans. Brit. mycol. Soc.	Transactions of the British Mycological Society. London.
Trans. geol. Soc. Glasg.	Transactions of the Geological Society of Glasgow.
Trans. Linn. Soc. Lond.	Transactions of the Linnean Society of London; Botany. London.
Trans. med. phys. Soc. Bombay.	Transactions of the Medical and Physical Society. Bombay.
Trans. med. phys. Soc. Calcutta.	Transactions of the Medical and Physical Society. Calcutta.
Trans. S. Afr. phil. Soc.	Transactions of the South African Philosophical Society. Cape Town.
Trans. Tottori Soc. agric. Sci.	Transactions of the Tottori Society of Agricultural Sciences. Japan.
Trav. Lab. for. Toulouse.	Travaux du Laboratoire forestier de Toulouse. Toulouse.
Trop. Agriculturist.	Tropical Agriculturist and Magazine of the Ceylon agricultural Society. Peradeniya.
Trop. Woods.	Tropical Woods. New Haven.
Tropenpflanzer.	Tropenpflanzer. Berlin.
Univ. Allahabad Stud.	*See* Allahabad Univ. Stud.
Univ. Bombay bot. Mem.	University of Bombay. Botanical Memoir.
Univ. Calif. Publ. Bot.	University of California. Publications in Botany. Berkeley.
Univ. Rajasthan Stud.	University of Rajasthan Studies, Biological Sciences. Pillani.
Univ. Rajputana Stud.	University of Rajputana Studies; Biological Sciences and Medicine.
Upsala Univ. Årsskr.	Upsala Universitets Arsskrift. Upsala.
Verh. Akad. Wet. Amst.	Verhandelingen der Koninklijke Nederlandsche Akademie van Wetenschappen. Amsterdam.
Verh. bot. Ver. Brandenb.	Verhandlungen des botanischen Vereins der Prov. Brandenburg. Berlin.
Verh. zool.-bot Ges. Wien.	Verhandlungen der K. K. Zoologischen-botanischen Gesellschaft. Wien.
Webbia	Webbia. Raccolta di Scritti botanici. Firenze.

Pallavicinia is represented in India by 7 species with restricted distribution. The author gives a morphological account of *P. ambigua, P. lyellii* and *P. longispina,* observing that the species problem leans on the nature of the lacinae on involucres and marginal teeth of the thallus. The retention of *Pallaviciniaceae* with *Pallavicinia* and *Symphyogyna* is suggested.

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KACHROO, P. *and* DEB, D. B.

1954 Notes on Assam *Hepaticae*; on a small collection of *Hepaticae* from Manipur. *J. Univ. Gauhati.* 5: 119-120. Report collection made round about Imphal.

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1954 Notes on Assam *Hepaticae*; on *Reboulia hemispherica* var. *pangiensis* Kash. and on some species of *Anthoceros* L., *Nothothylas* Sull. and *Riccia* L. from eastern India. *J. Univ. Gauhati.* 5: 121-133.

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KACHROO, P. *and* NAIR, B. K.

1952 Morphology of *Adiantum*: *A. sethiopicum. J. Univ. Gauhati.* 3: 163-171.

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1953 Studies in the *Pteridaceae;* observations on gametophytes of some species of *Adiantum* L. *Phytomorph.* 3(3): 240-248.

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KACISER, MARGARET

1954 Microstructure of wood of *Podocarpus. Phytomorph.* 4(1 & 2): 39-47.

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KADAM, B. S.

1935 Inheritance of root colour in rice. *J. Indian bot. Soc.* 14: 173.

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KADAMBI, KRISHNASWAMI

1929 A short note on the evergreen belt, Shankar State forest. *Mysore For. J.*

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1939 The montane evergreen forest, Bisala region, Mysore. *Indian For.* 65(4): 189-201.

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1941 The evergreen ghat rain forest, Agumbe-Kilandur zone. *Indian For.* 67(4): 184-203.

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1942 The evergreen ghat rain forest of Tunga and Bhadra River sources, Kadur District. *Indian For.* 68: 233.

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1943 The forests of Ramdurg State (Deccan). *Indian For.* 69: 3.

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1949 On the ecology and silviculture of *Dendrocalamus strictus* in the bamboo forests of the Bhadravati division, Mysore State and comparative notes on the species, *Bambusa arundinacea, Ochlandra travancorica, Oxytenanthera monostigma* and *O. stocksii. Indian For.* 75: 289.

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1949 A short note on *Morus alba* L. *Indian For.* 75: 459-466.

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1950 Evergreen montane forests of the Western Ghats of the Hassan District, Mysore State. *Indian For.* 76: 18-30, 69-82, 121-132.

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KADAMBI, KRISHNASWAMI—*contd.*

1950 *Lannea grandis* Engl. *Indian For.* 76: 529-538.
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1952 *Morus laevigata* Wall. *Indian For.* 78(4): 176-187.
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1952 On the occurrence of *Bambusa polymorpha* Munro in Bori valley, Hoshangabad division, Madhya Pradesh. *Indian For.* 78(10): 506-508.
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1954 *Terminalia paniculata* (Roth.) A. & A. (Syn. *Pentaptera paniculata* Roxb.); *Combretaceae. Indian For.* 80(10): 612-626.
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1957 *Vateria indica* Linn. *Indian For.* 83(5): 317-323.
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KADAMBI, KRISHNASWAMI *and* RAWAT, A. S.

1949 On the causes of congestion in *Dendrocalamus strictus* (Nees). *Indian For.* 75(6): 198-213.
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KADRY, A. E. R.

1946 Embryology of *Cardiospermum halicacabum* L. *Svensk. bot. Tidskr.* 40: 111-126.
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KAIMAL, K. N.

1951 The bark of the mature Rubber tree; the structure and functions of the principal tissues. *Indian Rubb. Bd. Bull.* 1(2): 25-38.
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KAISER, SAMUEL

1935 The inheritance of a geotropic response in *Capsicum* fruits. *Bull. Torrey bot. Cl.* 62: 75-80.
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KAITH, D. C.

1936 Manipur forests. *Indian For.* 62: 409-414.
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1935 The female gametophyte of *Alternanthera sessilis* R. Br. *Proc. Indian Acad. Sci.* B. 2: 476-480.
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1936 Embryo development in *Boerhavia diffusa* L. *Curr. Sci.* 4: 742-743.
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1937 The embryology of *Achyranthes aspera* Linn. *Proc. Indian Acad. Sci.* B. 5(4): 195-205.
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1937 A case of polyembryony in the *Nyctaginaceae. Curr. Sci.* 5: 420, 429.
On polyembryony in *Boerhavia repanda* Willd.
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1938 Embryo and seed development in the *Nyctaginaceae;* studies in the genus *Boerhavia. J. Indian bot. Soc.* 17: 243-254.
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1940 A contribution to the embryology of *Amarantaceae. Proc. nat. Inst. Sci. India.* 6(4): 597-625.
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1940 Structure and development in the male and female gametophytes of *Sesuvium portulacastrum* L. *Proc. nat. Acad. Sci. India.* 10: 82-89.
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1940 A contribution to the life history of *Bergia ammannioides* Roxb. *J. Indian bot. Soc.* 18(4-6): 157-167.
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1942 A contribution to the embryology of the genus *Portulaca*. *J. Indian bot. Soc.* 21(1 & 2): 1-19.
Studies the development of the anther, ovule, male and female gametophytes and fertilisation in *Portulaca quadrifida* and the development of embryo, endosperm and seed in *P. quadrifida* and *P. oleracea*.
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1944 Development of the embryosac of *Zizyphus jujuba* Lamk. (Letter). *Curr. Sci.* 13(2): 49.
Allium-type of embryosac has been observed, which confirms previous observation by Chiarugi (1930).
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1954 Development of the embryo, endosperm and seed coat in two species of the *Phytolaccaceae*. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 140.
Embryo development in *Rivina humilis* L. and *Phytolacca dioica* L. conforms to the chenopodial type of Johanson.
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1954 Fertilization and the development of embryo and seed in *Euphorbia hirta* L. *Proc. nat. Inst. Sci. India.* 20(4): 353-360.
Fertilisation is porogamous. Embryo development conforms to the *Euphorbia* variation of the onagrad type.
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1954 The antipodals in the family *Amarantaceae*. *Curr. Sci.* 22(5): 165-166.
Reply to T. S. Bakshi's paper.
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1952 Occurrence of four kinds of megaspore tetrads in *Elaeis guineensis* Jacq. *Curr. Sci.* 21(6): 170.
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1943 Pollen and embryosac of two *Euphorbiaceae*. *J. Indian bot. Soc.* 22(5 & 6): 229-236.
A study of the development of the anther, pollen, ovule and embryosac in *Euphorbia hirta* and *Jatropha gossypifolia* and ovule in *Euphorbia prolifera* and *E. wallichii*.
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1954 Contribution to the embryology of *Martynia diandra* Glox. *J. Univ. Poona.* (Sci.). 6: 28-33.
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1955 Soil conditions and root diseases; host-parasite response to *Fusaria* wilt. *Proc. Indian Acad. Sci.* B. 42(4): 145-153.
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1955 Certain aspects of toxicological studies with special reference to *Fusarium vasinfectum* Atk. *Proc. Indian Acad. Sci.* B. 41: 117-122.
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KALYANASUNDARAM, S.
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1956 Further studies on the germination of seeds of *Leguminosae* in relation to the evolutionary tendencies of the leaf. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 271-272. 14 species of *Papilionaceae* were studied, all exotic. As a result of the study, a theory that imparipinnate compound leaf is more primitive than paripinnate compound leaf, has been developed.

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1948 The life-history of *Puccinia ruelliae* (B. & Br.) on *Ruellia prostrata* Poir. *Proc. Indian Acad. Sci.* B. 26(1): 1-6.
The life-history of *Puccinia ruelliae* on *Ruellia prostrata* was studied by inoculation experiments. It is a macrocyclic autoecious rust, all the stages being found on the same host in one and the same season.

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KANDASAMI MUDALIAR

1952 Mooliki aharadi. Madras. 301 p.
Glossary of vegetable drugs in the Tamil language.

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1956 Notes on two fungi from south India; *Podosporium thysanolaenae* sp. nov. *Indian Phytopath.* 9(1): 76-77.

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1956 Fungi from south India. (Letter). *Sci. & Cult.* 21(9): 533.

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1933 A forest flora for Pilibhit, Oudh, Gorakhpur and Bundelkhand. Allahabad.

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1901 Forest flora of the school circle, N.W.P., being a descriptive list of the indigenous woody plants of the Saharanpur and Dehra Dun Districts and the adjoining portions of the Tehri-Garhwal State in the North-Western Provinces. Calcutta, Supdt., Govt. Ptg. 2 p.l., xxii, 390 p. Second edition published in 1911 under the title *Forest flora of Siwalik and Jaunsar forest divisions of the United Provinces of Agra and Oudh* and third edition in 1929 under the title *Forest flora of the Chakrata, Dehra Dun and Saharanpur forest divisions, United Provinces.*

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1901 Swamp forests in Dehra Dun, N.W. Provinces. *Indian For.* 27: 228-230.

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Contents: V. 1, pt. 1—*Ranunculaceae* to *Elaeocarpaceae;* V. 1, pt. 2—*Linaceae* to *Moringaceae;* V. 2—*Connaraceae* to *Cornaceae;* V. 3—*Caprifoliaceae* to *Plantaginaceae;* V. 4—*Nyctaginaceae* to *Cycadaceae;* V. 5—*Gramineae.*
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1947 Variation in the flowers of *Quisqualis indica* L. *J. Bombay nat. Hist. Soc.* 47: 334.
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1947 Note on Porbandar grasses. *J. Gujarat Res. Soc.* 9(2): 122-130.
92

1949 A statistical synopsis of the flora of Barda mountain in Porbandar State based on *Vanaspathi Sastra* by Jaikrishna Indraji. *J. Indian bot. Soc.* 28(4): 245-261.
93

1950 Abnormalities in the flowers of *Vinca rosea* L. (Letter). *Sci. & Cult.* 15(10): 402-403.
94

1950 *Strobilanthes callosus* (Nees) at Junagadh in Saurashtra. *J. Bombay nat. Hist. Soc.* 49(2): 321-322.
95

KAPADIA, G. A.—*contd.*

1950 Plant life of Mahagujarat. *J. Gujarat Res. Soc.* v. 11 & 12.
An account of the vegetation of Mahagujarat under various ecological associations. Earlier contributions to the botany of Gujarat is briefly touched upon. Along with botanical names, the Gujarati vernacular names are mentioned.
96

1951 Forest wealth of Gir and Girnar in Junagadh District of Saurashtra. *Indian For.* 77: 771-774.
97

1952 Ecological and statistical notes on the grasses of Kathiawar. *J. Indian bot. Soc.* 31(4): 247-250.
98

1954 Note on Kutch grasses. *J. Gujarat Res. Soc.* 16: 3-25.
99

1954 Timber wealth of Mahagujarat. *J. Gujarat Res. Soc.* 16: 3-25.
100

1957 Plant teratology. *Progress of science in India. Sec. 6, Botany.* p. 165-170.
Reviews Indian contributions to plant teratology family-wise as well as organ-wise. A bibliography of published papers on Indian plant teratology during 1939-50 is appended.
101

KAPIL, R. N.

1955 A contribution to the embryology of *Euphorbia esula* L. and *Chrozophora obliqua* A. Juss. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii(vi): 234-235.
102

1956 A further contribution to the morphology and life history of *Chrozophora* Neck. *Phytomorph.* 6(3 & 4): 278-288.
103

1956 The embryology of *Chrozophora rottleri* A. Juss., a re-investigation. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii(vi): 232-233.
Shows that the *Polygonum* type of embryosac occurs in both *Chrozophora obliqua* and *C. rottleri*, whereas Srivastava and Agarwal (1953) previously reported the occurrence of *Allium* type of embryosac in *Chrozophora rottleri*.
104

1956 The development of embryosac and endosperm in *Chrozophora prostrata* var. *parvifolia* Klotzsch. ex Schweinf. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii(vi): 233.
Observes that the development of the embryosac and endosperm in this plant is essentially similar to that of *C. obliqua* and *C. rottleri*.
105

1956 Development of embryosac and endosperm in *Chrozophora rottleri* A. Juss., a re-investigation. *Bot. Gaz.* 117(3): 242-247.
In a work on the same subject Srivastava reported that the ovules were anatropous, the archesporial cell functioned directly as megaspore mother cell, the embryosac was of the *Allium* type and at no stage did wall formation occur in the endosperm. This has been now fully revised. It is concluded that in the above species, the ovules are hemi-

anatropous, bitegmic and crassinucellatae. The nucellus forms a well-developed beak which projects beyond the micropyle.

106

KAPOOR, S. L.

1958 *Clematis napaulensis* Dc. of Kirtikar and Basu. *Indian J. Pharm.* 20(5): 137-138.
Reports that the description and illustration of this species contained in Kirtikar and Basu's book do not tally. The illustration is of *C. montana* Buch. Ham. ex De.

107

1958 *Clematis triloba* Heyne ex Roth as illustrated by Kirtikar and Basu. *Indian J. Pharm.* 20(8): 216-218.
Draws attention to certain discrepancies between the description and the illustration.

108

KAPUR, V. S.

1932 Grey blight of tea due to *Pestalozzia theae* Swada. (Abstr.) Proc. 19th Indian Sci. Cong. iii: 302.

109

KAR, ASOK

1955 The stipules, pulvinus and stipels of *Dolichos lablab* L. and their vascular supply. *Proc. nat. Inst. Sci. India.* B. 21(3): 137-140.

110

KAR, B. K.

1955 Plant association and nutritional balance. *J. Sci. Club. Calcutta.* 9: 5-16.

111

1956 Co-operative existence of man and vegetation. *J. Sci. Club. Calcutta.* 10: 49-52.

112

KARNICK, C. R.

1955 A contribution to geographical studies of Khandesh with special reference to Satpura range. *Bombay geogr. Mag.* 2: 65-72.

113

1957 Presence of the African floral element in the forest flora of Khandesh (Bombay State). *Bombay geogr. Mag.* 5: 47-51.

114

KARSTEN, G.

1892 Beitrage zur Entwicklungs-Geschicte einiger *Gnetum* Arten. *Bot. Ztg.* [ ]: 205, 221, 237.

115

1893 Untersuchungen uber die Gattung *Gnetum. Ann. Jard. bot. Buitenz.* 11: 195-217.

116

1907 Das indische Phytoplankton nach dem Material der deutschen Tiefsee-Expedition 1898-1899. *Wiss. Ergebn. d. deutschen Tiefsee-Exped. auf dem Dempfar. Valdivia.*

117

KARUNAIRATNAM, M. C. *and* BAPTIST, N. G.

1952 Free nuclei in coconut water. *Proc. Ceylon Ass. Adv. Sci.* 8th Ann. Sess.: 25.

118

KASHYAP, GANDHARI

1955 Studies in the family *Vitaceae;* floral morphology of *Vitis trifolia* L. *Agra Univ. J. Res.* 4 (Suppl.): 777-783.

119

KASHYAP, SHIV RAM

1908 Notes on species of *Euglena. Rec. Indian Mus.* 2: 111-112.

120

KASHYAP, SHIV RAM—*contd.*

1913-14 Morphological and biological notes on new and little known west Himalayan liverworts. *New Phytol.* 13: 206-226; 14: 1-18.
121

1914 Structure and development of the prothallus of *Equisetum debile*. *Ann. Bot. Lond.*
122

1915 The genus *Riccia* and the origin of the pteridophytes. *Proc. Lahore phil. Soc.*
123

1916 Liverworts of the western Himalayas and the Punjab plains, with notes on known species and descriptions of new species. *J. Bombay nat. Hist. Soc.* 24: 343-350; 25: 279-281.
Describes *Marchantiales* in the first part and *Jungermanniales* in the second.
124

1917 Notes on *Equisetum debile*. *Ann. Bot. Lond.*
125

1917 Notes on *Targionia hypophylla*. *New Phytol.* 16: 228.
126

1917 Variability in some Himalayan liverworts. *Proc. Lahore phil. Soc.* (Proc. for 1917-20).
127

1918 Notes on the inflorescence of *Zea mays* L. *Proc. Lahore phil. Soc.* (Proc. for 1917-20).
128

1918 The androecium in *Plagiochasma appendiculatum* L. and *P. articulatum* Kashyap. *New Phytol.* 17: 235.
129

1919 The relationship of liverworts, especially in the light of some discovered Himalayan forms. *J. Asiat. Soc. Bengal.* (n.s.). 15: 152.
Presidential address before the 6th session of the Indian Science Congress, 1919, Bombay.
130

1919 Abnormal number of needles in the shoots of *Pinus longifolia*. *J. Indian Bot.* 1: 115.
131

1920 Distribution of liverworts in the western Himalayas. *J. Indian Bot.* 1: 149; *Proc. Lahore phil. Soc.* (Proc. for 1917-20).
132

1920 Notes on the floating island of Riwalsar. *J. Indian Bot.* 1: 252.
133

1921 Notes on the distribution of liverworts in the western Himalayas, Ladak and Kashmir. *J. Indian Bot.* 2: 80.
134

1921 Some observations of *Cycas revoluta* and *Cycas circinalis* growing in Lahore. *J. Indian Bot.* 2: 116.
135

1921 Notes on *Hepaticae*. *J. Indian Bot.* 2: 355.
136

1922 Notes on some foreign plants which have recently established themselves around Lahore. *J. Indian Bot.* 3: 68.
137

1923 A long lost liverwort: *Cyathodium aureonitens* (Griff.). Schiff. *J. Indian Bot.* 3: 181.
138

KASHYAP, SHIV RAM—*contd.*

1923 Two Indian species of *Notothylas*. *Proc. Lahore phil. Soc.* (Proc. for 1923-24).
139

1923 A new liverwort from Madras: *Fysonia tenera*. *J. Indian Bot.* 3: 291.
140

1924 Some abnormalities in the flowers of *Cannabis sativa*. *J. Indian bot. Soc.* 4: 217.
141

1924 Abnormal sporophyllus in the male cone of *Cycas circinalis*. *J. Indian bot. Soc.* 4: 312.
142

1925 Vegetation on the western Himalayas and western Tibet in relation to their climate. *J. Indian bot. Soc.* 4: 327. Presidential address before the Indian Botanical Society's meeting held in Benares in 1925.
143

1925-26 *Salsola foetida* with special reference to its galls. *Proc. Lahore phil. Soc.* (Proc. for 1925-26).
144

1928 The colour in the flowers of *Potentilla argyrophylla*. (Abstr.). *Proc. 15th Indian Sci. Cong.*
145

1928 A new species of *Petalophyllum*: *P. indicum* Kashyap. *J. Indian bot. Soc.* 7: 14.
146

1928-32 Liverworts of the western Himalayas and the Punjab plains. Lahore, Punjab Univ. 2v.
147

1929-30 Some geographical observations in western Tibet. *J. & Proc. Asiat. Soc. Bengal.* (n.s.). 25: 1.
148

1930 Some peculiar cones and microsporophylls of *Cycas circinalis*. *J. Indian bot. Soc.* 9: 187.
149

1930 *Stellera chamaejasme* Linn. *J. Indian bot. Soc.* 9: 208.
150

1930 Some abnormal cones in *Equisetum debile*. *J. Indian bot. Soc.* 9: 240.
151

1932 Acrogynous liverworts of the western Himalayas. *Malaviya Commemoration volume*. p. 769-775 (Article 52). 83 species have been recorded, the limits of distribution extending from 12,000 to 16,000 ft.
152

1932 The gametophyte of *Equisetum*. *J. Indian bot. Soc.* 11: 86.
153

1932 Some aspects of the Alpine vegetation of the Himalayas and Tibet. *Proc. 19th Indian Sci. Cong.* iii: 13-27, 29-53. Appendix contains a list of plants in the herbarium of the Botany Department, Government College, Lahore, collected by Prof. Kashyap beyond the main Himalayan range. Presidential address delivered to the 19th session of the Indian Science Congress, held at Bangalore.
154

1932 Autonomous movements in the leaves of *Curculigo recurvata* Dryand. *Curr. Sci.* 1: 7.
155

KASHYAP, SHIV RAM—*contd.*

1934 Obituary notice on. *J. Indian bot. Soc.* 13: 311; *Curr. Sci.* 3(6): 245-248.
156

1936 Lahore District flora; revised and completed by A. C. Joshi. Lahore, Univ. of the Punjab. iv, 285p.
"The book is useful, but it is incomplete, lacking the *Cyperaceae* and *Gramineae*. Modern development in nomenclature and taxonomy are only partially accepted . . . The book starts with a synopsis of the families and ends with a glossary of botanical terms and an index of families, genera and vernacular names. Keys to the genera and species, with brief description of families, genera and species are provided. This book certainly fills a want."—C. E. C. Fischer. *Kew. Bull.* 1937: 402.
157

1937 Obituary notice on Prof. Shiv Ram Kashyap by H. Chowdhury. *Proc. Indian Acad. Sci. B.* 5(6): 333-337.
A list of Kashyap's publications is given at the end.
158

KASHYAP, SHIV RAM *and* MEHRA, P. N.

1934 Dichotomous branching in the leaves of *Pleopeltis simplex* Sw. *Curr. Sci.* 3(2): 203-205.
159

KASHYAPA

Kasyapa samhita.
Manuscript. Tanjore Mahal Saraswati Library, no. 11045; Burnell's C. 10777. A medical treatise in Telugu script.
160

Krishi sukthi.
Manuscript. Madras, Adyar Library. Transcript no. 63419. Ancient treatise on Indian agriculture transcribed by Vijiaraghavachariar.
161

KASINATHAN, D.

1956 On the fresh-water swamp vegetation of Uthangal (South Arcot District). (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii(vi): 220.
Uthangal, a village 5 miles to the south-west of the famous lignite mines of Neiveli, presents very interesting features of swamp forests. Three types of vegetation recognised.
162

1956-57 Studies on the fresh-water swamp vegetation of Uthangal. Thesis accepted for the M.Sc. Degree of the Annamalai University, Annamalainagar, south India.
163

KATAGIRI, SIGERU

1953 Chromosome number and polyploidy in certain *Cactaceae*. *Cactus & Succ. J. Los Angeles*. 25: 141-142.
164

KATZ, E. J.

1938 Pollen development and seed formation in *Utricularia coerulea* L. *Beih. bot. Zbl.* 58A: 365-378.
165

1943 Pollen tube growth in *Taraxacum officinale*. *Bot. Gaz.* 104: 650.
166

KAUL, K. N.

1938 An analysis of the artificial genus ***Palmoxylon*** into natural genera. (Abstr.). *Proc. 25th Indian Sci. Cong.* iii(v): 149-150.
167

1943 The anatomy of the stem of palms and the problem of the artificial genus *Palmoxylon* Schank. *Proc. Linn. Soc. Lond.* 154th Session: 65.
168

1951 A palm fruit from Kapurdi (Jodhpur, Rajasthan desert): *Cocos sahnii* sp. nov. (Letter). *Curr. Sci.* 20(5): 138.
Fossil impressions on Fuller's earth taken out from the mines at Kapurdi, W. Rajasthan, known for early tertiary remains, came out to be a *Cocos* species. It was named after Sahni as *Cocos sahnii* sp. nov. This confirms the view that *Cocos* was known in India in early tertiaries. The same paper in a different title namely, 'A fossil nariel from Rajasthan desert (*Cocos sahnii* sp. nov.)' appeared in *Agri-Anniv. Husb. U.P.* 2(3): 9-11.
169

1951 Some interesting features on the distribution of palms in relation to their origin. *J. Genet & Plt. Breed.* 2(1): 108-110.
170

1951 Half inferior ovary in a variety of Kharbooza, *Cucumis melo* L. *Curr. Sci.* 20(11): 303.
171

KAUL, K. N. *and* SOLANKI, M. S.
1950 Polycarpy in *Cicer arietinum*. (Letter). *Curr. Sci.* 19(2): 61-62.
Tricarpellary and pentacarpellary apocarpus pistils were observed and recorded.
172

KAUL, S. N.
1928 Forest products of Jammu and Kashmir. Srinagar, Pratap Steam Press.
173

KAUL, V. N. *and* MISRA, R.
1957 Germination and photo-periodic behaviour of *Xanthium strumarium* L. *Proc. Seminar on modern developments in plant physiology*. Delhi.
174

KAUR, DHANWANT
1958 Embryology of *Cephalotaxus drupacea* var. *pedunculata*. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii(vi): 291-292.
175

KAUSHAL, P. K.
1957 Chromosomes in *Agropyron scabrifolium*. *Curr. Sci.* 26(10): 321-322.
176

KAUSIK, RAMCHANDRA
1944 Full utilisation of fruits when cheap and abundant. *Indian For.* 70: 147-151, 177-183.
177

KAUSIK, S. B.
1935 The life-history of *Utricularia coerulea* L. *Curr. Sci.* 3(8): 357-359.
178

1935 The life history of *Lobelia trigona* Roxb. with special reference to the nutrition of the embryosac. *Proc. Indian Acad. Sci.* B. 2: 410-418.
179

1938 Morphology of some abnormal flowers in some angiosperms. *New Phytol.* 37(5): 396-408. *Tropaeolum majus* (garden Nasturtium), *Trichosanthes anguina* and *Allamanda grandiflora* have been worked out.
180

KAUSIK, S. B.—*contd.*

1938 Studies in the *Proteaceae;* cytology and floral morphology of *Grevillea robusta* Cunn. *Ann. Bot. Lond.* (n.s.). 2(8): 899-910.
181

1938 Pollen development and seed formation in *Utricularia coerulea* L. *Beih. bot. Zbl.* 57: 365-378.
182

1938 Gametogenesis and embryogeny in *Lobelia nicotianaefolia* Heyne. *J. Indian bot. Soc.* 17: 161-168.
183

1938 The endosperm in *Grevillea robusta* Cunn. *Curr. Sci.* 6(7): 332-333.
Describes certain features in the life-history of the species, which are either not mentioned by P. Brough or appear to be at variance with Brough's observations.
184

1938 Studies in the *Proteaceae;* floral anatomy and morphology of *Macadamia ternifolia* F. Muell. *Proc. Indian Acad. Sci.* B. 8(1): 45-62.
185

1939 Vascular supply of the stamens and ovules of *Gloriosa superba. Nature.* 143: 437.
186

1939 A cytological study of *Scaevola lobelia* Linn. *Proc. Indian Acad. Sci.* 9(1): 39-48.
The material for this study was collected during Oct. 1937 in the Island of Krusadai near Pamban, south India. Supplies detailed information on the cytology of the family *Goodeniaceae.*
187

1939 Pollination and its influences on the behaviour of the pistillate flower in *Vallisneria spiralis. Amer. J. Bot.* 26(4): 207-211.
188

1939 Studies in the *Proteaceae;* embryology of *Grevillea banksii* R. Br. *Ann. Bot. Lond.* (n.s.). 3(12): 815-824.
189

1939 Dissection and preparation of whole mounts of endosperm from the seeds of *Grevillea* (*Proteaceae*). *Stain Tech.* 14(2): 43-46.
190

1940 Vascular anatomy of the flower of *Macadamia ternifolia* F. Muell. (*Proteaceae*). *Curr. Sci.* 9(1): 22-25.
191

1940 Structure and development of the ovule and embryosac of *Lasiosiphon eriocephalus* Dcne. *Proc. nat. Inst. Sci. India.* 6(1): 117-132.
192

1940 Vascular anatomy of the pistillate flower of *Enhalus acoroides* (L.f.) Steud. *Curr. Sci.* 9(3): 3.
193

1940 Contribution to the embryology of *Enhalus acoroides* (L.f.) Steud. *Proc. Indian Acad. Sci.* B. 11(2): 83-99.
194

1940 Studies in the *Proteaceae;* structure and development of the ovule of *Hakea saligna* Knight. *Ann. Bot. Lond.* (n.s.). 4(13): 73-80.
195

1941 Studies in the *Proteaceae;* vascular anatomy of the flower of *Grevillea robusta* Cunn. *Proc. nat. Inst. Sci. India.* 7(3): 257-266.
196

1941 Structure and development of the staminate flower and the male gametophyte of *Enhalus acoroides* (L.f.) Steud. *Proc. Indian Acad. Sci.* 14: 1-16.
197

1941 Development of the vermiform appendage in *Grevillea robusta* Cunn. *Proc. Indian Acad. Sci.* 14: 137-140.
198

1942 Studies in the *Proteaceae;* structure and development of the seedling of *Grevillea robusta* Cunn. *J. Indian bot. Soc.* 21(3 & 4): 145-158.
199

1942 Studies in the *Proteaceae;* the endosperm of *Grevillea robusta* Cunn., with special reference to the structure and development of the vermiform appendage. *Proc. Indian Acad. Sci.* 16: 121-140.
200

1942 Studies in the *Proteaceae;* a review of contributions to the embryology and floral morphology and a discussion of the systematic position of the family. 21p.
Thesis for the Doctorate Degree of the Madras University.
201

1943 Contribution to the embryology and floral morphology of the *Proteaceae. Chron. bot.* 7: 404.
202

KAUSIK, S. B. *and* RAJU, M. V. S.

1955 A contribution to the floral morphology and embryology of *Utricularia reticulata* Smith. *Proc. Indian Acad. Sci.* B. 41(4): 155-166.
203

1956 Variation in the development of the pro-embryo in *Utricularia coerulea* L. *Curr. Sci.* 25(9): 296-297.
204

KAUSIK, S. B. *and* RAO, K. V.

1942 The male gametophyte of *Halophila ovata* Gaud. *J. Mysore Univ.* B. 3(7): 41-49.
205

KAUSIK, S. B. *and* SUBRAHMANYAM, K.

1945 A contribution to the embryology of *Lobelia trialata* Buch. Ham. *J. Indian bot. Soc.* 24: 175.
206

1945 An embryological study of *Isotoma longiflora* Presl. *Proc. Indian Acad. Sci.* B. 21(5): 269-278.
207

1946 Development of endosperm in *Lobelia nicotianaefolia* Heyne. (Letter). *Curr. Sci.* 15(3): 78-79.
208

1946 A contribution to the life history of *Sphenoclea zeylanica* Gaertn. *Proc. Indian Acad. Sci.* B. 23(6): 274-280.
The material for this study was collected at Guduvancheri near Madras and fixed in Formalin acetic alcohol and Allen's modified Bouin.
209

1946 A case of polyembryony in *Isotoma longiflora* Presl. (Letter). *Curr. Sci.* 15(9): 257-258.
210

KAUSIK, S. B. *and*
SUBRAHMANYAM, K.—*contd.*
1947 Embryogeny of *Isotoma longiflora* Presl. *Proc. Indian Acad. Sci.* B. 26(4): 164-167. Describes development of the embryo.
211

1947 Embryology of *Cephalostigma schimperi*. *Bot. Gaz.* 109(1): 85-90.
212

KAUTILYA
Gulma vrikshayurveda. *Kautilya's Arthasastra, tr. by R. Shama Sastry.*
213

KAYE, C. T.
1840 Observations on the fossiliferous beds near Pondicherry and in the district of South Arcot. *Madras J. Lit. & Sci.* 12: 37-42.
214

KAYYADEVA
1928 Kayyadeva nighantu; Part-1. Lahore, Mahir Chandra Lakshmana Day. 411p.
A work in Sanskrit dealing with materia medica and descriptions of medicinal plants.
215

KEDARNATH, S.
1950 A note on the chromosome numbers of some plants. *Indian J. Genet.* 10: 96.
216

KEEBLE, F. W.
1895 The hanging foliage of certain tropical plants. *Ann. Bot. Lond.* 9: 59.
217

1896 Observations on the *Loranthaceae* of Ceylon. *Trans. Linn. Soc. Lond.* (S. 2). 5: 91-218; 10: 626-627.
218

KEELART, E. F.
1858 List of *Diatomaceae*, etc. found in Ceylon. *Ann. Mag. nat. Hist.* (S. 3). 1: 157.
219

KEHAR, N. D., MURTHY, V. N. *and* JAYAL, M. M.
1957 *Holoptelea integrifolia* (Kanju) leaves as cattle food. *Sci. & Cult.* 23(2): 94-95.
220

KELKAR, S. S.
1954 Occurrence of twin embryosacs in *Rhus mysorensis* Heyne. *J. Univ. Poona.* 6: 36-37.
221

1958 Embryology of *Rhus mysorensis* Heyne. *J. Indian bot. Soc.* 37(1): 114-122.
222

KELKAR, S. S. *and* NAVALKAR, B. S.
1958 Observation of vivipary in *Erythrina indica* Lamk. *J. Bombay nat. Hist. Soc.* 55(2): 380-382.
223

KELSEY, HARLAN P. *and*
DAYTON, W. A.
1942 Standardized plant names; 2nd ed. Harrisburg, U.S.A., American Joint Committee of Horticultural Nomenclature. xv, 676p.
The purpose of this book is to bring order in the names of plants and plant products existing the world over.
224

KEMPANNA, C. *and*
KRISHNA SASTRY, K. S.
1958 Male sterility and *Crotalaria striata*. *Curr. Sci.* 27(5): 181.
225

KENNARD, WILLIAM C.

1955 Development of the fruit, seed and embryo of the Paheri mango. *Bot. Gaz.* 117(1): 28-32.
A study of the developmental pattern of the mango (*Mangifera indica* L.). Pahari variety was selected because it was monoembryonic and the measurement would not get complicated as in polyembryonic varieties.
226

KENOYER, L. A.

1919 Dimorphic carpellate flower of *Acalypha indica*. *J. Indian Bot.* 1: 3.
227

1920 Notes on *Vallisneria*. *J. Asiat. Soc. Bengal.* (n.s.). 15: 303.
228

1920 Forest societies of the Kumaon Sub-Himalaya at Sat Tal. (Abstr.). *Proc. 7th Indian Sci. Cong.* [ ]: 113.
229

1921 Forest formation and succession of the Sat Tal valley, Kumaon Himalaya. *J. Indian Bot.* 2: 236.
230

1922 Notes on forest succession in the Gangetic plain and the adjoining Vindhyas. (Abstr.). *Proc. 9th Indian Sci. Cong.* iii: 118-119.
231

1924 Weed manual of Gwalior State and adjacent parts of India. Calcutta, Printed at the Baptist Mission Press. xi, 126p.
232

1927 Notes on Indian Ruderals (upper Gangetic plain) ecology. *Pap. Mich. Acad. Sci.* 6: 247-252.
233

KENOYER, L. A. *and* DUDGEON, W.

1922 The ecology of Tehri Garhwal. *J. Indian bot. Soc.* 4: 233.
234

KERCHOVE DE DENTERGHEM, O.

1878 Les Palmiers, histoire iconographique, geographie, paleontologie, botanique, description, culture, emploi, etc., avec index general des noms et synonymes des especes. Paris, J. Rothschild. viii, 348p.
235

1894 Le livre des Orchidees. Gand, A. Hoste. viii, 601p.
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KERR, A. F. G.

1909 Note on the pollination of certain species of *Dendrobium*. *Notes bot. Sch. Trin. Coll. Dublin.* 2: 31-37.
237

KEW BULLETIN

1894 Supplementary note on the flora of British India. *Kew Bull.* [ ]: 200.
238

1894 Species and principal varieties of *Musa*. *Kew Bull.* [ ]: 229-314.
239

1894 Vegetable resources of India. *Kew Bull.* [ ]: 315-328.
240

1896 The flora of Tibet. *Kew Bull.* [ ]: 207-216.
241

1896 Mr. Littledale's Tibetan plants. *Kew Bull.* [ ]: 99-100.
242

1922 New species from Mount Everest. *Kew Bull.* [ ]: 149.
243

1925 Additions to the 'Index Kewensis'. *Kew Bull.* [ ]: 311-315.
244

KEW BULLETIN—*contd.*

1926 The treatment of leprosy by vegetable oils. *Kew Bull.* [ ]: 17-23.
An account of the species yielding Hydnocarpic and Chaulmoogra oils, together with the nature of and uses of such oils.
245

1927 *Hydnocarpus* and *Taraktogenos* in the Federated Malay States. *Kew Bull.* [ ]: 49-56.
246

1931 Introduction of *Cinchona* into India. *Kew Bull.* [ ]: 113.
247

1934 *Lilium, Notholirion* and *Fritillaria*. *Kew Bull.* [ ]: 94-96.
Notholirion macrophyllum (D. Don) Boiss., *N. thomsonianum* (Royle) Stapf and *N. hyacinthium* (S. H. Wils.) Stapf are new combinations recorded.
248

1935 Structure of sandal woods and scented woods. *Kew Bull.* [ ]: 3-15, 165.
249

1946 Small initial letters for all specific epithets. *Kew Bull.* 2: 49.
Announcing that with effect from 1947 all specific epithets will be printed with a small initial letter.
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1878 Sketch of the flora of Rajputana. *Indian For.* 4: 226. Reprinted at Calcutta. 12p.
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328

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333

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KING, GEORGE *and* PRAIN, D.

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1898 Descriptions of new plants from the north-east frontiers of India. *J. Asiat. Soc. Bengal.* 67: 284-305.
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1934 The limitations of forest reconnaissance surveys. *Indian For.* 60: 545.
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1930 The botanical identity of Tawenna (*Palaquium rubiginosum*) and allied timbers. *Ann. R. bot. Gdn. Peradeniya.* 11: 287-297.
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1880 The upper Gondwanas and other formations of the central region of the Godavery District. *Mem. geol. Surv. India.* 16: 195-264.
Describes fossil flora of the district.
344

KINGDON-WARD, F.

1913 The land of the Blue Poppy, travels of a naturalist in eastern Tibet. Cambridge, Univ. Press. xii, 283p.
In this book, the author records his experiences and observations in western China and south-eastern Tibet during the year 1911, when he was engaged in collecting plants for the horticultural firm of Bees Ltd., Liverpool. The photographs, taken by the author himself, add to the interesting account of plant-hunting in the region mentioned above. Chapter IX deals with the Himalayan region.
345

KINGDON-WARD, F.—*contd.*

1921 In farthest Burma, the record of an arduous journey of exploration and research through the unknown frontier territory of Burma and Tibet. London, Sieley Service & Co. 311p.

346

1923 The mystery rivers of Tibet, being a description of the little known land where Asia's mightiest rivers gallop in harness, through the narrow gateway of Tibet, its peoples, fauna and flora. London, Sieley Service & Co. 316p.
The author spent nearly more than eleven months from April 1913 to March 1914 exploring and collecting plants and seeds in the gorges and mountains of the three great rivers of south-eastern Tibet, Salween, Mekong and Yangtze-Chiang, which form a natural barrier between N. E. Frontier of India beyond Sadiya and S. W. China (Seschuan). It is an interesting account of the flora of north-eastern India, interspersed with numerous illustrations of plants and sceneries.

347

1923 From the Yangtze to the Irrawaddy. *Geogr. J.* 62: 6-20.

348

1924 From China to Hkampti-Long. London, Edward Arnold & Co. 317p.
An account of the journey from Likiang north-wards and subsequently west-wards to Hkampti-Long, done from July to December 1922. The early stages of this plant hunting expedition began from Rangoon and passing through the Shan States, Likiang, where the regular collection for plants and seeds were started.

349

1926 The riddle of the Tsangpo gorges. London. xv, 328p.
Describes the botany of the south-eastern corner of Tibet, where most of the big rivers which rise in Tibet, squeeze their way through the mountains to the sea. Kingdon-Ward and Lord Cawdor journeyed together in 1924 across the eastern Himalaya up to the Tsangpo gorge in the extreme eastern corner of the Himalayas. Cawdor has written two of the chapters. Introduction by Sir Francis Young-Husband.

350

1926-29 His eighth, ninth and tenth expeditions in Asia for collection of plants. *Gdnrs' Chron.* 79: 8-9, 47-48, 118-119, 151-152, 190-191, 232-233, 290-291; 80: 130, 170-171, 290-291, 410-411; 81: 11, 130-131, 162-163, 194-195, 250-251, 303-304, 394-396, 432-434; 82: 90-91, 150-152, 210-211, 268-269, 309-310, 366-367, 406-407, 446-447, 486-487, 522-523; 83: 28-29, 64-65, 102-103, 138-139, 414-416, 450-451; 84: 10-11, 50-51, 87-88, 148-149, 170-171, 230-232, 270-271, 350-351; 86: 30-32, 70-71, 110-111, 149-150, 186-187, 206-207, 246-247, 286-287, 326-327, 366-367, 406-408, 447-448, 466-467, 484-485, 502-503.
An illustrated account of the plant collection explorations in the Himalaya mountains,

KINGDON-WARD, F.—*contd.*

Tibet, northern India, Bhutan, etc. Contains the itenerary with notes on topography, vegetation, etc., together with brief and popular descriptions of plants observed or collected. Eighth expedition was in Tibet. Ninth expedition was up the Irrawady river and along the north-eastern frontier of Burma, up the Seingkhu valley, thence into the Lohit valley, Tibet.

351

1927 The Sino-Himalayan flora. *Proc. Linn. Soc. Lond.* B. 139: 67-74.

352

1929 Botanical exploration in the Mishmi Hills. *Himalayan J.* 1(1): 51-59.
The journey to the Mishmi Hills, across Lohit valley, started from Sadiya in February 1928, and ended by November of the same year The author collected many hundreds of species of plants A brief statement of the results of his exploration is given. The altitudinal vegetation, from the foot of the Himalaya upto 14,500 ft. from the Dihang gorge to the Salween is described.

353

1930 The distribution of *Primulas* from the Himalaya to China, with descriptions of some new species. *Ann. Bot. Lond.* 44: 111-125.

354

1930 Plant hunting of the edge of the world. London, Victor Gollance Ltd. 386p.
In this book, the author has written the most fascinating account of his expedition in search of plants on the north-east of the Himalayas, where the northern frontiers of Assam and Burma meet, and on the high tableland of Tibet. The actual routes followed by him and the sites of his hunting grounds are shown on a map included in this book. The main object of his expedition was to obtain new species of hardy beautiful plants, suitable for cultivation in English gardens. A list of such plants is given at the end of the book of which 12 are *Primulas* and 13 are *Rhododendrons*.

355

1933 Romance of plant hunting. London, E. Arnold & Co. x, 277p.
"Capt. Kingdon-Ward takes us in a racy and attractive style in his travels through Yunnan, the land of the yellow Lama, where nature is a vast festival of multi-coloured flowers. As a guide to the art of plant collection, the book is an invaluable asset and gives certain very timely and suggestive tips."—A. N. R. *Curr Sci.* 2: 152-153.

356

1933 A naturalist's journey to the sources of the Irrawaddy. *Himalayan J.* 5: 46-57.
An account of the geography and flora of the region round about the upper sources of the Irrawaddy river on the borders of Assam, Burma and Tibet. F. Kingdon-Ward and Lord Cran-Brook visited upper Burma, to be exact, the Lohit, Irrawaddy Divide, to explore and collect fauna

KINGDON-WARD, F.—*contd.*

and flora at the sources of the Irrawaddy and to trace the southern limits of the great ice-sheet which once covered so much of this country from the Tsangpo to the Yangtze and beyond. The natural history results of the expedition were very good, the botanical collection including many new species and some beautiful plants.

357

1934 A plant hunter in Tibet. London, Jonathan Cape. 318p.
An account of the author's twelfth expedition on plant hunting in south-eastern Tibet between Rima and Salween. He went up the Lohit of Assam to Rima, up the Rongtochu to Rongyul in Tibetan Zayal, from there to Rong-to-stream and over the Ata-Kang-La to Shugden Gompa in the Nagong District of Tibet. He travelled alone, botanizing and plant collecting, observing and surveying. His contributions are a large collection of Himalayan plants and the pioneer exploration of a large block of country hitherto unknown. His theories on the Himalayan bend are interesting.

358

1934-36 Kingdon-Ward's twelfth Expedition in Asia. *Gdnrs' Chron.* (S. 3). 96; 97: 8, 44, 78, 110, 142, 176, 224, 256, 288, 322, 360, 396; 98: 8, 44, 80, 124, 194, 228.
In these descriptive and illustrated accounts, the author records his travels and adventures in quest of plants and their seeds in south-eastern Tibet, namely, Salween-Irrawaddy Divide, Shugden Gompa, Dri valley and part of Mishmis. A large number of plants and seeds were collected by him.

359

1935 A sketch of the geography and botany of Tibet, being materials for a flora of that country. *J. Linn. Soc.* 50: 239-265.

360

1935 *Rhododendron* seeds, with special reference to their classification. *J. Bot. Lond.* 73: 241.

361

1935 The forests of Tibet. *Himalayan J.* 7: 103-110.
Discusses the why and wherefore of the concentration of location of the forests of Tibet in the south-eastern corner of the Himalayan range. Describes the types of forests and their floristic components one meets with from the base of the Himalayas up to 11,000 ft. Beyond that, the forests disappear.

362

1937 Exploring for plants in southern Tibet. *Indian For.* 63: 58-59; *Nature.* (2nd May issue).

363

1937 His thirteenth expedition in Asia. *Gdnrs' Chron.* 102.

364

1938 His fourteenth expedition in Asia. *Gdnrs' Chron.* 103.

365

KINGDON-WARD, F.—*contd.*

1939 Two Burmese slipper orchids. *Orchid Rev.* 47: 314-315.
Notes on *Paphiopedilum* (*Cypripedium*) *wardii* Summerhays and *C. venustum* Wall.
366

1940 *Meconopsis grandis* Prain. *Gdnrs' Chron.* 107: 117.
367

1940 *Mahonia* (*Berberis*) *lomariifolia* Takeda. *Gdnrs' Chron.* 107: 295.
368

1941 The Betel palm, *Areca catechu*. *Gdnrs' Chron.* [ ]: 159.
369

1941 Assam adventure. London, Jonathan Cape. 304p.
The botany and the geography of the Trans-Himalayan region in Assam is described in Chapter 25.
370

1942-43 An outline of the vegetation and flora of Tibet. *150th Anniv. Vol. Ann. R. bot. Gdn. Calcutta.* p. 99-103.
371

1943 A note of the journey from Chittagong to N. Demagiri, Chittagong Hills. *Gdnrs' Chron.* [ ]: 176-177.
Describes the places and the plants thereof, seen and collected enroute.
372

1944-45 A sketch of the botany and geography of north Burma. *J. Bombay nat. Hist. Soc.* 44(4): 550-574; 45: 16-30, 133-148.
373

1946 Additional notes on the botany of north Burma. *J. Bombay nat. Hist. Soc.* 46: 381-390.
374

1946 In search of tea. *Gdnrs' Chron.* [ ]: 222-235.
375

1948 Botanical exploration in Manipur. *J. R. hort. Soc.* 73: 37-43.
376

1949 Plant hunting in Manipur. *J. R. hort. Soc.* 74: 288-295, 333-340.
377

1949 Burma's icy mountains. London, Jonathan Cape. 287p.
"Although I have made four major expeditions into the mountains at the sources of the Irrawaddy, I am fully conscious that I have only skimmed the surface of the flora . . . It is hoped that this book will interest the naturalist, anyone engaged in modern scientific exploration whether in Burma or elsewhere."—the author, Preface.
378

1952 Plant hunter in Manipur. London, Jonathan Cape. 254p.
"I have confined myself to describing only those plants of which we collected seeds for the New York Botanic Garden, or which were definitely an important part of the landscape." — the author, Preface.
379

1954 Report on the forests of the north Triangle, Kachin State, N. Burma. *J. Bombay nat. Hist. Soc.* 52(2 & 3): 304-320.
380

1956 Return to the Irrawaddy. London, Andrew Melrose. 224p.
The main part of the book deals with botanical exploration. Botanists will be particularly interested in the full account of the discovery and collection of a new species of lily, later named as *Lilium arboricola*. There are also some valuable, more general, chapters on *Rhododendrons* in north Burma.
381

KINGDON-WARD, JEAN
1951 My hill so strong. London, Jonathan Cape. 240p.
382

KIRK, JOHN
1864 Dimorphism in the flowers of *Monochoria vaginalis*. *J. Linn. Soc.* 8: 147-148.
383

KIRKPATRIK, COL.
1811 An account of the kingdom of Nepal, being substances of observations made during a mission to that country in the year 1793. London.
384

KIRKWOOD, J. E.
1905 Comparative embryology of the *Cucurbitaceae*. *Bull. N. Y. bot. Gdn.* 3: 313-402.
385
1907 Some features of the pollen formation in the *Cucurbitaceae*. *Bull. Torrey bot. Cl.* 34.
386

KIRTIKAR, K. R.
1886 On *Agaricus ostreatus*. *J. Bombay nat. Hist. Soc.* 1: 73.
387
1886 Abnormal development in *Musa sapientum*. *J. Bombay nat. Hist. Soc.* 1: 73.
388
1886 Fruit of *Trapa bispinosa*. *J. Bombay nat. Hist. Soc.* 1: 74.
389
1886 *Pandanus odoratissimus*. *J. Bombay nat. Hist. Soc.* 1: 668.
390
1887 Vegetables from the Crawford market, Bombay. *J. Bombay nat. Hist. Soc.* 2: 61.
391
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392
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KRISHNASWAMY, N. *and* RAMAN, V. S.

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KRISHNASWAMY, N., RAMAN, V. S. *and* CHANDRASEKHARAN, P.

1956 Studies on *Sorghum nitidum* Pers. *Curr. Sci.* 25(2): 64-65.
Sorghum nitidum collected at Rangasami Hills showed 2n = 20. Subsequent collection made at different places showed 2n = 10. Morphologically they are similar also. But 20 chromosomed plant was 10 ft. high whereas 10 chromosomed one was only 4-5 ft. Further notes on the 10 chromosomed plant are recorded.
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KRISHNASWAMY, N., RAMAN, V. S., CHANDRASEKHARAN, P. *and* SHETTY, B. V.

1954 Chromosome numbers of some Indian economic plants. *Curr. Sci.* 22(2): 64-65.
This is the fourth list of chromosome numbers of plants, native to and introduced into India, now forming part of Indian flora.
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KRISHNASWAMY, N., RAMAN, V. S. *and* MADHAVA MENON, P.

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KRISHNASWAMY, V. S.

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First published in 1952. It is a guide to the location and contents of the world's public herbaria. Arranged alphabetically under the name of the town or city in or near which they are located. Also contains list of herbarium abbreviations and list of herbaria arranged by States, with a general index.
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LANJOUW, J. *and others*

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The code is published in 3 languages: English, French and German. Appendix 3 consists of nomina generica conservanda and rejicenda amended and supplemented in accordance with the decisions of the Paris Congress (1954). Appendix 4 refers to determination of types. Appendix 5 is the guide to the citation of botanical literature.
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Deals with the latest developments in the taxonomy of the flowering plants.
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1875 *Rhamneae. Hk's Fl. Brit. India.* 1: 629-644.
Describes 12 genera including *Ventilago, Zizyphus* and *Rhamnus*.
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1875 *Ampelideae. Hk's Fl. Brit. India.* 1: 644-668.
Describes 3 genera: *Vitis, Pterisanthes* and *Leea*.
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1894 Notes of a tour in Travancore, etc. *Rec. bot. Surv. India.* 1(4): 58-60.
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LAWSON, P. *and* LAWSON, C.
1853 Agrostographia. Edinburgh.
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LEAKE, H. M.
1908 Studies in the experimental breeding of Indian cottons— an introductory note. *J. Asiat. Soc. Bengal.* (n.s.). 4: 13-20.
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1914 Note on the fruiting male of *Phoenix dactylifera*. *New Phytol.* 13: 69.
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LEAKE, H. M. *and* RAM PRASAD
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1905 The origin of *Anonas*: *Anona squamosa* and *Anona reticulata* L. *J. Bombay nat. Hist. Soc.* 17: 369.
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1900 Le cotton, monographie, culture, histoire economique. Paris, G. Carre & C. Naud. viii, 494p.
Monograph on the genus *Gossypium*.
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1907 *Sabiacees* asiatiques nouvelles de l'herbier du museum. *Bull. Soc. bot. Fr.* 54: 671-678.
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A monographic work. A number of Indian plants noticed.
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1885 Monographie du genre *Thalictrum*. *Bull. Soc. bot. Belg.* 24: 78-324.
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1924 Some galls of the Malacca peninsula. *Bull. Jard. bot. Buitenz.* 6: 116-157.
Describes many Indian plants forming galls.
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1938 Observations about the biology of tropical flowers. *Ann. Jard. bot. Buitenz.* 48(2): 27-68.
Biology of the following Indian species has been described: *Elephantopus scaber* L., *Sida rhombifolia* L., *Turnera subulata* Sm., *Parkia speciosa* Hassk, *Leonotis nepetifolia* R. Br., *Eranthemum hypocrateriforme* R. Br., *Trichospermum longifolium* Ktze., *T. pulchrum* Bl. and *Spathodea campanulata* P. Beauv.
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LEEUWEN-REIJUVAAN, VON W. *and* LEEUWEN-REIJUVAAN, J.

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Many Indian species of plants, occurring in the Dutch Indies affected by galls are described. Very useful contribution to the study of galls of Indian plants.
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1920 The galls of Krakatau and Verlaten island. (Desert island). *Ann. Jard. bot. Buitenz.* 31: 57.
On Indo-malayan plant galls.
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1922 Uber einege von Aphiden au *Styrax*-arten gebidete Gallen. *Bull. Jard. bot. Buitenz.* 4: 149-162.
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1922 Some galls from Hong-Kong. *Bull. Jard. bot. Buitenz.* 4: 268-278.
Galls in Indian species mentioned.
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1922 The galls of the island of Krakatoa group and of island of Sebesy. *Bull. Jard. bot. Buitenz.* 4: 288-314.
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1917 Effect of foreign pollination on *Cycas rumphii*. *Ann. R. bot. Gdn. Peradeniya*. 6: 187.
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LEHALE, JEAN HOUZEAN DE
1908 Le Bambou, son etude, son culture, son emploi. Mens.
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1817 Monographie generix *Primularum*. Lipsiae, J. A. Barth. 93p.
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1856 Revisio *Potentillarum*. *Nova. Acta. Leop. Carol.* 23 (Suppl.): i-xiv, 1-230.
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LEIDICKE, J. W.
1903 Beitrage zur Embryologie von *Tropaeolum majus* L. Breslau, F. W. Jungfers. 46p.
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1870 The lichens of Ceylon, collected by G. H. K. Thwaites. *Trans. Linn. Soc. Lond.*
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LELE, K. M.
1953 Plant fossils from Parsora in the south Rewa, Gondwana basin, India. *Palaeobotanist.* 4: 23-34.
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1929-35 Dictionnaire descriptif et synonymique des genres de plantes phanerogames. Brest. 6v.
A descriptive account of all known genera of the phanerogamic plants of the world. Their synonyms are also given.
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LE MESURIER, C. J. R.
1893 Manual of the Nuwara-Eliya District of Ceylon. Colombo, Govt. printer, Ceylon. 269p.
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LEMMERMANN, E.
1899 A small list of Ceylon algae. *Zool. Jb.* 25.
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1899 Plankton algen. *Abh. naturw. Ver. Bremen*. 16: 313-398.
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1903 Das Phytoplankton des Meeres; Beitrage. *Abh. naturw. Ver. Bremen*. 17: 341-418.
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LESCHENAULT DE LA TOUR, M.
1820 Memoir sur les cultures des environ de Pondicherry. *Mem. Mus. Hist. nat. Paris.* 6: 300-328.
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1820 Relation d'un voyage a Karikal et Salom. *Mem. Mus. Hist. nat. Paris*. 6: 329-348.
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1820 Rapport sur les resultats d'un voyage fait a Salom, ville de l'interieur de la peninsule de l'Inde situee a cinquante lieues dans l'ouest de Pondicherry en May 1818. *Mem. Mus. Hist. nat. Paris*. 6: 349-360.
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1822 Notice sur le cannelier de l'Isle de Ceylon, sur sa culture et sur ses produits. *Mem. Mus. Hist. nat. Paris*. 8: 436.
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1822 Notice sur uno nouvelle especes de *Vinetier* (*Berberis*) des montagnes de Nellygerry, dans la peninsula de l'Inde; *Berberis tinctoria* Leschen. *Mem Mus. Hist. nat. Paris*. 9: 306.
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1822 Relation abregee d'un voyage aux Indes orientales. *Mem. Mus. Hist. nat. Paris.* 9: 436.
Reprinted at Paris. 1823.
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LESLIN, JOHN
1833 A sketch of the medical topography of Gowhatti, etc. *Trans. med. phys. Soc. Calcutta.* 6: 33.
Describes the climate, season and general features of the locality.
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LESLIE, T. N.
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1879 Catalogues des diatomees de l'Isle Ceylon; extract from Memoirs de la Societe d'emulation des Cotes-du-ford. 73p.
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LEVEILIE, A. A. H.
1891 The presence of *Taraxacum officinale* in the Nilgherries. *J. Bombay nat. Hist. Soc.* 6: 106.
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1906 Monographie synthetiques et iconographique du genre *Epilobium*. *Bull. Acad. int. Geogr. bot.* 16: 202.
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1907 Revision du genre *Epilobium* d'apres les Herbiers Boissier et Barbey-Boissier. *Bull. Herb. Boiss.* 11(7): 587-590.
Describes *E. souliei* Levl. sp. nov., *E. sadae* Levl. (Tehri-Garhwal).
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1910 Iconographie du genre *Epilobium; Epilobes* d'Asie. *Repert. nov. Spec. Regn. veg.* 9: 69-167.
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1910-11 Iconographie du genre *Epilobium*. LeMans. 2p.l., 328p.
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1891 Crittogame della alta Birmania (Bhamo, Lango, Monte Moolegit) recolte dal Sig. Leanardofea. *Nuovo. G. bot. Ital.* 23: 600-603.
24 mosses, 13 lichens and 10 hepatics, identified by C. Muller, Stephani and G. Muller, are described.
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773

LEWIS, F.
1896 Note on the fertilisation of *Bruguiera gymnorrhiza*. *Ceylon For.* 2: 110.
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1896 A descriptive catalogue of the more useful trees and flowering plants of the Western and Sabaragamuwava provinces of Ceylon. *J. Ceylon Br. R. Asiat. Soc.* 17(53): 89-256.
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1903 Useful plants of south-west Ceylon. *J. Ceylon Br. R. Asiat. Soc.*
776

1908 The lesser known hills of the Batticaloa District and lower Uva. *J. Ceylon Br. R. Asiat. Soc.* 21: 165-180.
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1912 Notes on a visit to the Maldive Islands. *Indian For.* 28: 211-217.
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1920 Notes on a visit to the Kumadiyaparawita mountain in Ceylon. *J. Linn. Soc.* 45: 143.
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1926 Altitudinal distribution of the Ceylon endemic flora. *Ann. R. bot. Gdn. Peradeniya.* 10: 1-130.
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1932 Preliminary observations on *Cercospora euphorbiae* Kell. & Swim. (Abstr.). *Proc. 19th Indian Sci. Cong.* iii: 298.
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LIMPRICHT, W.
1922 Neue *Pedicularis* aus Ost-Tibet. *Repert. nov. spec. Regn. veg.* 18: 243-244.
783

1922 Botanische Reisen in den hochgebirgen Chinas und Ost-Tibets. *Repert. nov. Spec. Regn. veg. Beih.* 12: i-viii, 1-297.
784

1924 Studien uber die Gattung *Pedicularis*. *Repert. nov. Spec. Regn. veg.* 20: 161-265.
785

1927 Nachtrage zu *Pedicularis*. *Repert. nov. Spec. Regn. veg.* 23: 333-339.
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1928 *Taccaceae*. *Pflanzenreich*, 92: 1-32.
A monograph.
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LINCHEVSKY, I. A. *and* PROZOROVSKY, A. V.
1949 The basic principles of the distribution of the vegetation of Afghanistan; tr. from Russian by H. K. Airy-Shaw. *Kew Bull.* 2: 179-214.
Deals with the little known flora of Afghanistan. A list of botanical literature on Afghanistan is given at the end.
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LINDAU, G. *and* SYDOW, P.
1908-17 Thesaurus litteraturae mycologicae et lichenologicae, ratione habita praecipue omnium quae adhue scripta sunt de mycologia applicata quem congesserunt G. Lindau & P. Sydow. Lipsiis, Fratres Brontaeger. 6v.
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LINDEGREN, C. C.
1949 Yeast cell, its genetics and cytology. St. Louis, Educational Publishers.
791

LINDEN, COGNIAUX
1894 Les Orchidees exotiques et leur culture en Europe. Bruxelles.
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LINDENBERG, J. B. W.
1836 Monograph der *Riccien*. *Nova Acta physicomed. Acad. Leop.* 18: 364-504.
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LINDENIA
1885-
1903 Iconographie des Orchidees. Gand and Brussells.
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LINDLEY, JOHN
1820 Rosarum monographia; or, A botanical history of roses, to which is added an appendix for use of cultivators. London, J. Ridgways. xxxix, 156p.
Subsequent edition published in 1930.
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1822 Observations on the natural group of plants called *Pomaceae*. *Trans. Linn. Soc. Lond.* 13: 88-106.
796

1830 An introduction to the natural system of botany; or, A systematic review of the organisation, natural affinities and geographical distribution of the whole vegetable kingdom, together with the use of most important species in medicine, the arts and rural or domestic economy. London, Longman, Rees, Orme, Brown & Green. xlviii, 374p.
Subsequent edition published in 1931.
797

1830-40 The genera and species of the orchidaceous plants. London, Ridgways. xvii, 553p.
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1838 Flora medica: a botanical account of all the more important plants used in medicine in different parts of the world. London, Longman, Orme, Brown, Green & Longmans. xiii, 655p.
Attempts to give correct systematical descriptions of medicinal plants of the world for the use of medical students.
799

1840 *Dendrobium*. *Bot. Reg.* 30: 46-65.
A systematic enumeration.
800

1846 The vegetable kingdom; or, The structure, classification, and uses of plants, illustrated upon the natural system. London, Bradbury & Eoans. lxviii, 908p.
Subsequent editions published in 1847 and 1853.
In this work, the author has dealt first with the several systems of classification of plants that have come out from Ray (1703) up to his day (John Lindley 1845), then describes the vegetable kingdom under the groupings: *Thallogens, Acrogens, Rhizogens, Ednogens, Dictyogens, Gymnogens* and *Exogens*. 303 families have been described fully, together with their mutual affinities with the geographical distribution of each genus under each order and the properties of the species also.
801

1852-55 Folia *Orchidacea*, an enumeration of the known species of Orchids. London, the author. -v.
Volume one published.
802

1857-59 Contributions to the orchidology of India. *J. Proc. Linn. Soc.* 1: 170-190; 3: 1-63.
803

LINDLEY, JOHN *and* GORDON, G.
1850 A catalogue of coniferous plants with their synonyms. *J. R. hort. Soc.* 5: 199-228.
804

LINDLEY, JOHN *and* MOORE, THOMAS

1874 The treasury of botany; a popular dictionary of the vegetable kingdom, with which is incorporated a glossary of botanical terms. London, Longmans, Green & Co. 2v.
Subsequent editions published in 1873, 1874 and 1876. Gives a short history of the important genera of plants. Other features of interest in the book are (1) Glossary of botanical terms, (2) Selection of English names, French names, and local names in different parts of the world. Nomenclature of plants is according to Lindley's *Vegetable Kingdom* and De Candolle's *Prodromus*. A number of eminent scholars have contributed to the articles in this book.
805

LINDLEY, JOHN *and* PAXTON, JOSEPH

1850-53 Paxton's flower garden. London, Bradbury & Evans. 3v.
In these volumes are described plants brought from all over the world and cultivated in England for ornamental purposes.
806

LINDSAY, A. K.

1833 Extract of a letter relating to the vegetable productions around Lahooghat in Kumaon. *Hook's Bot. Misc.* 3: 119-125.
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LINDSEY, A. A.

1940 Floral anatomy of *Gentianaceae*. *J. Bot. Lond.* 27: 640-652.
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LINGAPPA, B. T.

1956 *Synchytrium borreae*, an endophytic alga. *Mycologia*. 48(3): 427-432.
Discusses the conditions pertaining to the nature of an endophytic alga.
809

LINGELSHEI, A.

1908 Vorarbeiten zu einer Monographie der Gattung *Fraxinus*. *Bot. Jb.* 40: 185-223.
810

1920 *Oleaceae - Oleaoideae - Fraxineae, Oleaceae - Oleaoideae-Syringeae*. *Pflanzenreich*. 72: 1-125.
811

LINNAEUS, CARL

1735 Systema naturae, sive regna tria naturae systematice proposita per classes, ordines, genera & species. Lugduni Batavorum, T. Haak. 11p.
Subsequent editions published in 1740, 1744, 1747, 1748, 1758-59, 1760, 1766-68, 1772, 1788-93.
In this, Linnaeus brought out, what he regarded as a temporary expedient, his natural or sexual system of classification of plants to supply for the time being, an urgent want. This was to help the European botanists to arrange the increasing number of plants and to interpolate novelties. Plants were arranged into twenty-four classes, based upon the number or some other obvious characters of the stamens.
812

1736 Fundamenta botanica, quae majorum operum prodromi instar theoriam scientiae botanices per breves aphorismos tradunt. Amstelodami, S. Schouten. 2 p.l., 35p.
In this work, Linnaeus published his views on botanical nomenclature in a series of

LINNAEUS, CARL—*contd.*

aphorisms grouped under the headings nomina, differentiae, varietates and synonyma, dealing respectively with generic, specific and varietal names and synonyms.

813

1737 Genera plantarum, eorumque characteres naturales secundum numerum, figuram, situm & proportionem omnium fructificationis partium. Lugduni Batavorum, C. Wishoff. 8 p.l., 384, [20]p.

Subsequent editions published in 1742, 1743, 1752, 1754, 1764, 1767, 1778, 1789-91, 1830-31.

In this work, Linnaeus has described all the genera of plants of the previous authors together with his new ones. The genera are grouped together under 24 classes, based on the number of stamens and ovules. This is an artificial system, the limitations of which, Linnaeus himself had realised.

814

1937 Corollarium generum plantarum. Lugduni Batavorum, C. Wishoff. 3 p.l., 25, 23p.

815

1737 Hortus Cliffortianus, plantas exhibens quas in hortis tam vivis quam siccis hartecampi in Hollandia, coluit vir nobillissimus et generossimus Georgius Clifford Juris utriusque doctor, reductis varietatibus ad species, speciebus ad genera, generibus ad classes adjectis locis plantarum natalibus differentiisque specierum cum tabulis aeneis. Amstelodami. 15 p.l., x, 231, 301-501, [17]p.

Catalogue of the living plants and the dry materials in the collection of Dr. George Clifford. Many Indian plants are included.

816

1747 Flora zeylanica, sistens plantas indicas Zeylonae insulae; quae olim 1670-1677. Holmiae, L. Salvii. 19, [9], 240, [20], 14p.

Plants described in this book were the collections of Paul Hermann, made between the years 1670 to 1677, in Ceylon under directions from Dutch Government. They were published by Carl Linnaeus in 1747, nearly 70 years after Hermann had collected them. Linnaeus made frequent references in this book to Rheede's *Hortus malabaricus*, the first illustrated work on Indian plants, published by the Dutch Governor of Malabar in the latter part of the 17th century.

817

1749-90 Amoenitaes academicae; seu, Dissertationes variae physicae, medicae, botanicae, antehac seorsim editae nune collectae et auctae . . . accedit hypothesis nova de febrium intermittentium causa. Lugduni Batavorum, C. Haak. 10v.

818

1753 Species plantarum, exhibentes plantas rite cognitas, ad genera relatas, cum differentiis specificis, nominibus trivialibus, synonymis selectis, locis natalibus, secundum systema sexuale digestas. Holmiae, L. Salvii. 2v.

Subsequent editions published in 1762-63, 1764, 1797-1818, 1831-33. A facsimile edition

LINNAEUS, CARL—*contd.*

of the first edition has been published by Ray Society London in 1957.
A work of great international importance for botanical nomenclature throughout the world. According to the rules of the *International Code of Botanical Nomenclature,* this work forms the basis of the binominal system of nomenclature and 1753 is the starting point for all valid nomenclature of plants. A large number of Indian plants have been described. They have also been referred to plates in Rheede's *Hortus malabaricus.* Most of the plants described in them are his own and he has included many of his contemporaries also.
819

1771 Mantissa plantarum. Holmiae, L. Salvii. 2v.
820

1781 Supplementum Plantarum systematis vegetabilium, editionis decimae tertiae; Generum plantarum, editionis sextae; et Specierum plantarum, editionis secundae. xiv, 467p.
821

1806 A general system of nature, through the three grand kingdoms of animals, vegetables and minerals; tr. from Gmelin, Fabricius, Willdenow, etc. with a life of Linne and a dictionary of the terms of natural history, by William Turton. London, Lackington, Allen & Co. 7v.
822

1938 The cretica botanica of Linnaeus; tr. by Sir Arthur Hort; revised by Miss M. L. Green; with an introduction by Sir A. W. Hill. London, Bernard Quaritch. xxvii, 239p.
"[This] scholarly translation of the *Cretica botanica* makes accessible, for the first time, to those who are not Latin scholars, the views on botanical nomenclature, held by Linnaeus in 1737. An outline of these views has been published by Linnaeus in his *Fundamenta botanica* (1736) . . . in a series of aphorisms grouped under the headings: nomina, differentiae, varietates and synonyma, dealing respectively with generic, specific and varietal names and synonyms. The *Cretica botanica* explains the aphorisms and illustrates them by many examples."—*Kew Bull.* 1938, p. 217-218.
823

1952 Carl Linnaeus, by Knut Hagberg; tr. from the Swedish by Alan Blair. London, 1952. 264p.
824

1953 The prince of botanists, Carl Linnaeus, by Norah Gourlie. London. 292p.
825

LINSBAUR, K.

1908 Uber Reizbitungs geschwindig Keit und Latenzzeit bei *Mimosa pudica.* Weisner-Festsch. 396p.
826

LISBOA, J. C.

1877 Some plants undescribed in the *Bombay flora* by Dalzell and Gibson. *J. Bombay Br. R. Asiat. Soc.* 13: 131-149.
827

LISBOA, J. C.—*contd.*

1881 List of plants seen at Mahabaleshwar at the end of the last hot season—a small contribution to the botany. *J. Bombay Br. R. Asiat. Soc.* 15: 203-224.
828

1886 Useful plants of the Bombay Presidency. *Bombay Gaz.* 25: i-iii, 1-307.
829

1887 Arrowroot yielding plant from the Mahabaleshwar. *J. Bombay nat. Hist. Soc.* 2: 140-147.
830

1889-91 Odoriferous grasses of India and Ceylon. *J. Bombay nat. Hist. Soc.* 4: 118-124; 6: 64-71; *Indian For.* 15: 283-288.
A new species of *Andropogon* is described.
831

1890-93 List of Bombay grasses and their uses. *J. Bombay nat. Hist. Soc.* 5: 116-131, 226-232, 337-349; 6: 189-219; 7: 357-390; 8: 107-119.
Reprinted at Bombay.
832

1893 Hereditary disease of the branches and leaves of *Ficus tsiela*. *J. Bombay nat. Hist. Soc.* 7: 76.
833

LISTER, G.

1924 Mycetozoa from northern India. *J. Bot. Lond.* [ ]: 16-20.
834

LISTER, M. D.

1952 Some jungle-bird associations. *J. Bombay nat. Hist. Soc.* 50(3 & 4): 573-593.
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This is an ecotype of *E. debile*. It is found in the neighbourhood of Poona and places of Deccan.
1007

1946 The concept of vestigial organs and the vascular cryptogams. *Curr. Sci.* 15(8): 220-225.
Discusses the subject under these heads: (i) Some characteristics of the vestigial organs and (ii) A survey of the vestigial organs of the vascular cryptogams. The latter again has been dealt with under 4 minor heads as embryonic organs, rudimentary organs, ancesteral atrophied organs and internal organs reduced to the vestigial tissues. Suggests that these vestigial organs may have originated as a result of Gene mutations.
1008

1947 Prothallus, of *Gymnopteria variabilis* Bedd. var. *lanceolata*. (Abstr.) *Proc. 34th Indian Sci. Cong.* iii: 152.
1009

1948 Prothallus of *Lycopodium hamiltonii* Spring. (Letter). *Curr. Sci.* 17(6): 187-189.
1010

1948 Prothalli of *Ceratopteris thalictroides*. *Bot. Gaz.* 109: 349-354.
Describes the gametophyte of this species of the *Ceratopteridaceae*. It is monoecious in contrast to the generally dioecious condition described by King.
1011

1949 The laticiferous system of *Regnellidium diphyllum* Lindl. *Curr. Sci.* 18: 449-450.
Records the occurrence of latex containing cells in the phloem and the inner cortical parenchyma of the pelvis and stem of them. This is a rare phenomenon species.
1012

MAHABALE, T. S.—*contd.*

1950 A species of fossil *Salvinia* from Deccan Intertrappean series. India. *Nature*. 165: 410-411.
1013

1953 Occurrence of *Sparganium* in the Deccan Intertrappeans of Madhya Pradesh, India. *Proc. nat. Inst. Sci. India*. 19(5): 623-629.
1014

1954 Ferns and palms as indicators of climate and palaeo-climate. *Palaeobotanist*. 3: 33-37.
1015

1958 Taxonomy of liverworts and mosses. *Mem. Indian Bot. Soc.* 1. 37-42.
1016

MAHABALE, T. S. *and* BHAT, P. D.

1942 Cytology of the common Bombay fibre aloe, *Agave vivipara* L.; microsporogenesis. *J. Univ. Bombay*. (n.s.). 10(3): 51-55.
1017

1944-45 The structure and life-history of *Fimbriaria angusta* St. J. *Univ. Bombay*. (n.s.). 13(5).
1018

MAHABALE, T. S. *and* CHENNAVEERAIAH, M. S.

1954 Karyotypes in *Dipcadi medic. Curr. Sci.* 23(11): 367-368.
Karyotypes of *D. montanum*, *D. saxorum* and *D. ursulae* are also described.
1019

1957 Studies on *Hyphaene indica* Becc., morphology. *Phytomorph* 7(2): 184-194.
An account of the morphology, microsporogenesis, megasporogenesis and male and female gametophytes of the branched palm *Hyphaene indica*.
1020

MAHABALE, T. S. *and* D'MELLO, JOYCE

1952 Apogamy in *Salvinia*. (Letter). *Curr. Sci.* 21(8): 227-228.
The pattern of apogamy in *Salvinia auriculata* was investigated closely and recorded.
1021

MAHABALE, T. S. *and* DESHPANDE, G. S.

1938 Bulbils of *Remusatia vivipara* Schott. *J. Univ. Bombay*. 6(5): 47-56.
1022

1942 *Psilotum triquetrum* Sw. at Lonavala, Bombay Presidency. (Letter). *Curr. Sci.* 11(12): 466-467.
1023

1947 Life-history of *Plagiochasma articulatum* Kashyap. *J. Univ. Bombay*. 15(5): 23-36.
Gives details of the development of the thallus, receptacles, sex organs and sporophyte. Embryo is of the filamentous type. The haploid number of chromosome is 8. Discusses the importance of the chromosome number in the phylogeny of the genus.
1024

MAHABALE, T. S. *and* GORJI, G. H.

1941 Chromosomes of *Riccia himalayensis* St. *Curr Sci.* 19(1): 28-29.
Cytology of *Riccia himalayensis* was worked out and the results obtained are recorded. The diploid number of chromosome is 16. The diploid forms seem to be hermaphrodite.
1025

1947 On the chromosomal complex of two species of *Riccia*. *J. Univ. Bombay*. (n.s.). B. 16(3): 1-6.
R. discolor L. and *R. frostii* (*R. sanguinea* Kash.) have their chromosomal complex as 8, seven of which, being more or less V-shaped and one small dot-like body lying in the centre of the other seven.
1026

1948 Some observations on the sporelings and adult plants of *Marsilea quadrifolia* L. *J. Univ. Bombay*. (n.s.). B. 16(5): 27-34.
1027

1951 Sporogenesis in *Nephrolepis exaltata* Schott. *J. Univ. Bombay*. (n.s.). B. 20(3): 66-77.
1028

MAHABALE, T. S. *and* JAVALGEKAR, S. R.

1957 On an epiphytic species of *Nephrolepis*, *N. paucifrondosa* D'Almeida. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 233.
This is usually epiphytic in Kandala but it is also found in the caves at Panchgani. Its life-history has been studied and an abstract given.
1029

MAHABALE, T. S. *and* KHARADI, R. G.

1946 On some ecological features of the vegetation at Mt. Abu. *Proc. nat. Acad. Sci. India*. 16(1): 13-23.
1030

MAHABALE, T. S. *and* MAHAJAN, M. K.

1955 A reinvestigation of the structure and life history of *Targionia hypophylla* L. *J. Univ. Bombay*. 23: 34-43.
1031

MAHABALE, T. S. *and* SHAH, J. J.

1949 Prothali of *Cheilanthes farinosa* Kaulf. and *C. tenuifolia* Sw. (Abstr.). *Proc. 37th Indian Sci. Cong.* iii: 125.
1032

MAHABALE, T. S. *and* SOLANKY, I. N.

1953 Studies in the *Chenopodiaceae;* embryology of *Kochia scoparia* Schrad. *J. Univ. Bombay*. (n.s.). 22(3): 18-25.
Kochia scoparia Schrad. was worked out to complete its embryological studies, especially the megasporogenesis and the female gametophyte.
1033

1953 Studies in *Chenopodiaceae;* embryology of *Suaeda fruticosa*. *J. Univ. Bombay*. 22: 81-92.
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1954 Studies in the *Chenopodiaceae;* embryology of *Arthrocnemum indicum* Moq. *Proc. Indian Acad. Sci.* B. 39(5): 212-222.
1035

1954 Studies in the *Chenopodiaceae;* embryology of *Chenopodium murale* L. *J. Univ. Bombay*. (n.s.). 23(3): 25-37.
1036

MAHADEVAN, C.

1950 Obituary note on B. Sahni, by C. Mahadevan; with a list of the publications of B. Sahni at the end, by M. O. P. Iyengar. *Proc. Indian Acad. Sci.* B. 31(6): 287-301.
1037

MAHADEVA SASTRI, K. S.

1956 A note on *Bhojanakutuhala* of Raghunatha Suri. *J. Travancore Univ.* 8(4): 111-115.
1038

MAHAJAN, M. K.

1956 On teratology in some angiosperms from Bombay; *Caesalpinia pulcherrima* Sw. and *Coccinia indica* L. *Sci. & Cult.* 21: 673-675.
1039

1956 Fasciation and synanthic monstrous flower in *Petunia violacea* Linn. *Sci. & Cult.* 22: 338-339.
1040

1957 On teratology in some angiosperms from Bombay; *Thunbergia fragrans* Roxb. *Sci. & Cult.* 23(1): 60-61.
Occurrence of supernumerary flowers as an instance of axillary prolification has been recorded in the flower of *Thunbergia fragrans* Roxb.
1041

1958 On regular peloric and double spurred flowers of *Delphinium majus* L. *Sci. & Cult.* 23(8): 427-428.
1042

MAHALUXMIVALA, COVASJI D.

1902-03 Notes on some of the plants introduced into the Victoria Gardens, Bombay, during the past 8 years. *J. Bombay nat. Hist. Soc.* 14: 128, 356, 776; 15: 674.
1043

MAHEN, J.

1906 Sur les organes secreteurs des *Menispermacees*. *Bull. Soc. bot. Fr.* [ ]: 651-653.
1044

MAHESWARI, J. K.

1954 The structure and development of extra-floral nectaries in *Duranta plumieri* Jacq. *Phytomorph.* 4(1 & 2): 208-211.
1045

1954 Floral morphology and embryology of *Lippia nodiflora Mich. Phytomorph.* 4 (1 & 2): 217-230.
1046

1955 Contribution to the embryology of *Duranta plumieri* Jacq. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 240.
1047

1957 Flora of Delhi State.
Thesis accepted by the University of Delhi for Ph.D. Degree
1048

1957 Some name changes in the flora of India. *J. Bombay nat. Hist. Soc.* 54(3): 804-805.
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MAHESWARI, P.

1929 Origin and development of internal bundles in the stem of *Rumex crispus*. *J. Indian bot. Soc.* 8: 89.
1050

1929-30 Contribution to the morphology of *Boerhavia diffusa*. *J. Indian bot. Soc.* 8(4): 219-234; 9: 42-61.
1051

1931 Contribution to the morphology of *Albizzia lebbek*. *J. Indian bot. Soc.* 10: 241-264.
1052

1933 The development of the endosperm in *Asphodelus tenuifolius* Cav. *Curr. Sci.* 2(1): 13.
1053

1933 A note on the life history of *Hydrilla verticillata* Presl. *Curr. Sci.* 2(1): 13-14.
1054

1933 Notes on staining with Iron-alum Haemotoxylon. *J. Indian bot. Soc.* 12: 129.
1055

MAHESWARY, P.—*contd.*

1934 The Indian mango. *Curr. Sci.* 3(2): 97-98.
The morphology of *Mangifera indica* has been described from the flower and through the several parts: anther, carpel, pollination and fertilisation, endosperm and embryo.
1056

1934 Contribution to the morphology of some Indian *Liliaceae;* the gametophytes *Ophiopogon wallichianus* H.f. *Proc. Indian Acad. Sci.* B. 1: 197-204.
1057

1935 The progress of work in India on the embryology of of angiosperms. *Curr. Sci.* 3(12): 599-605.
Review of the work on embryology in India from 1919 to 1935. Work in progress currently and the possible lines of future work have been briefly dealt with.
1058

1935 Contributions to the morphology of *Ephedra foliata* Boiss.; the development of the male and female gametophyte. *Proc. Indian Acad. Sci.* B. 1: 586-600. 1059

1937 A critical review of the types of embryo-sacs in angiosperms. *New Phytol.* 36(5): 359-417.
1060

1939 Recent advances in microtechnique; the paraffin method of cytology. *Cytologia.* 10: 257-281.
1061

1940 The role of growth hormones in the production of seedless fruits. *Sci. & Cult.* 6: 85-89.
1062

1941 Recent works on the types of the embryo-sac in angiosperms—a critical review. *J. Indian bot. Soc.* 20: 229-261.
1063

1942 The embryo-sac of *Euphorbia heterophylla* L., a reinvestigation. *Proc. Indian Acad. Sci.* B. 15(3): 158-165.
This reinvestigation shows that the development is not of the *Adoxa* type, but of normal type only.
1064

1944 The origin of the haustoria in the ovule of *Lobelia. J. Indian bot. Soc.* 23(2): 79-81.
1065

1944 The seed structure of *Ipomoea*: a criticism. *Sci. & Cult.* 9: 557.
1066

1945 Embryology of angiosperms as a field for research. *Nature.* 156: 35.
1067

1945 On the presence of an obturator in the ovule of *Phyllanthus niruri* L. (Letter). *Curr. Sci.* 14(5): 132-133.
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1946 The *Fritillaria* type of embryosac, a critical review. *J. Indian bot. Soc.* 25: 101.
1069

1946 The *Adoxa* type of embryosac —a critical review. *Lloydia.* 9: 73-113.
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1948 The angiosperm embryo-sac. *Bot. Rev.* 14(1): 1-56.
1071

1949 The male gametophyte of angiosperms. *Bot. Rev.* 15(1): 1-75.
Contains a bibliography of articles on the morphology of angiospermous gametophytes.
1072

MAHESWARY, P.—*contd.*

1950 An introduction to the embryology of angiosperms. New York, McGraw Hill Book Co. 453p.
"The result of Prof. Maheswari's approach to the subject is an extraordinarily useful and coherent account of those key points in the life-cycle which had become too recondite in modern research for the general botanist. ...He begins the subject with a historical sketch, leading to experimental and theoritical considerations. The relation of embryology to taxonomy is shown. The different types of embryosacs seem to have little or no taxonomic importance".—E.J.H. Corner, *Phytomorph.* 1: 242.
1073

1952 Some recent discoveries in applied botany. *Every Day Science.* 1(1): 48-52.
1074

1952 Professor Birbal Sahni's contribution to living plants. *Palaeobotanist.* 1: 17-21.
1075

1952 Polyembryony in angiosperms. *Palaeobotanist.* 1: 319-329.
1076

1956 The embryology of angiosperms, retrospect and prospect. *Curr. Sci.* 25(4): 106-110.
Discusses and reviews the progress in this study under the headings: descriptive embryology, phylogenetic embryology and applied and experimental embryology. Concludes that a proper evaluation of all the data will prove useful in a better understanding of the inter-relationships of many genera and families and in an improvement of the existing schemes of classification. *Sphenocleaceae* is an instance of wrong classification.
1077

1957 Hormones in reproduction. *Indian J. Genet.* 17: 386-397.
1078

1958 Embryology and taxonomy. *Mem. Indian bot. Soc.* 1: 1-9.
This is paper no. 1. in Symposium no. 1 (Modern trends in plant taxonomy). Quotes I. W. Bailey, Constance and Keck, adding that a modern taxonomist has to have a broader out-look than his predecessors and that he should take into consideration the results of anatomy, embryology and cytology since they are of great value for adding refinement to a classification based on external morphology.
1079

MAHESWARI, P. *and* BAHADUR SINGH

1934 The morphology of *Ophioglossum fibrosum* Schum. *J. Indian bot. Soc.* 13: 102-123.
1080

MAHESWARI, P. *and* BALWANT SINGH

1942 On the internal bundles in the stem of *Rumex patientia* L. *Proc. Indian Acad. Sci.* B. 15(3): 153-157.
Concludes that the presence of bicollateral bundles is an advanced character. The species with higher chromosomes have them while the species with lower chromosomes lack them
1081

1943 Studies in the family *Alismaceae*: the embryology of *Machaerocarpus californicus* (Torr.) Small. *Proc. nat. Inst. Sci. India.* 9: 311-322.
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1943 The mode of endosperm formation in *Vallisneria, Ottelia* and *Limnocharis*. *Proc. nat. Acad. Sci. India.* B. 13(4): 260-263.
The endosperm is of the *Helobiales* type. Attempts to correct some previous errors and misconceptions.
1083

1945 An endodermal phellogen in the stem of *Paederia foetida* L. *Nature.* 156: 116.
1084

1945 Origin of haploid, diploid and twin embryos in angiosperms. *Nature.* 156: 173.
1085

1945 The place of angiosperm embryology in research and teaching. *J. Indian bot. Soc.* 24(1): 25-41.
Presidential address delivered before the 24th annual meeting of the Indian Botanical Society held at Nagpur on 3rd January, 1945.
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MAHESWARI, P. *and* CHOPRA, R. N.

1954 Polyembryony in *Opuntia dillenii* L. *Curr. Sci.* 22(4): 130-131.
1087

1955 The structure and development of the ovule and seed of *Opuntia dillenii* Haw. *Phytomorph.* 5(1): 112-122.
1088

MAHESWARI, P. *and* CHOWDHURY, O. R.

1937 A note on the development of the embryo-sac in *Phyllanthus niruri* Linn. *Curr. Sci.* 5: 229-261.
1089

MAHESWARI, P. *and* GANGULY, H.

1942 The development of the embryosac in *Heckeria umbellata* Kunth. *J. Indian bot. Soc.* 21(5 & 6): 245-248.
The authors, as a result of their work, conclude that the development of the embryo-sac of *Heckeria umbellata* corresponds to the *Fritillaria* type. Johnson's interpretation of an Adoxa type is shown to be incorrect.
1090

MAHESWARI, P. *and* GHOSH, MANASI

1955 The systematic position of *Exocarpus*. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 234.
Its systematic position was a disputed point hitherto. Authors' studies go to show that it is not a gymnosperm and that its proper position is in the *Santalaceae*, although it may be an aberrant member of that family.
1091

MAHESWARI, P. *and* HAQUE, A.

1949 The embryo-sac of *Chrysanthemum parthoneum* (L.) Bth. *New Phytol.* 48: 225.
1092

MAHESWARI, P. *and* JOHRI, B. M.

1940 A note on the embryo-sac of *Acalypha indica* L. *Curr. Sci.* 9: 322-323.
1093

1941 The embryo-sac of *Acalypha indica* L. *Beih. bot. Zbl.* 61A: 125.
1094

MAHESWARI, P. *and* JOHRI, B. M.—*contd.*
1950 The development of the embryo-sac, embryo and endosperm in *Helixanthera ligustrina* (Wall.) Dans. *Nature.* 165: 978-979.
1095

MAHESWARI, P., JOHRI, B. M. *and* DIXIT, S. N.
1957 The floral morphology and embryology of the *Loranthoideae* (*Loranthaceae*). *J. Madras Univ.* B. 27(1): 121-136
1096

MAHESWARI, P. *and* KHAN, REAYAT
1953 Development of the embryo-sac, endosperm and embryo in *Isomeris arborea*—a reinvestigation. *Phytomorph.* 3(4): 446-459.
1097

MAHESWARI, P *and* MAHESWARI, J K.
1955 Floral dimorphism in *Commelina forskalei* and *C. bengalensis. Phytomorph.* 5: 314-346.
1098

MAHESWARI, P. *and* NARAYANASWAMI, S.
1950 Parthenogenetic development of the egg in *Spiranthes australis* L. *Curr. Sci.* 19: 249.
1099

MAHESWARI, P. *and* NAVALAKHA, H. S.
1941 A note on the embryology of *Scoparia dulcis* L. and *Angelonia grandiflora* C. MOTT. *Curr. Sci.* 10: 297-298.
1100

MAHESWARI, P. *and* NEGI, VIMLA
1955 The embryology of *Dipteracanthus patulus* (Jacq.) Nees. *Phytomorph.* 5(4): 456-472.
1101

MAHESWARI, P. *and* PURI, VISHWAMBARA
1935 A note on the occurrence of a smut on two Indian *Selaginellas Curr. Sci.* 3: 301. Describes smut on *Selaginella chrysocaulos* Spr. and *S. chrysorrhizos* collected from Rajpur and Mussoorie.
1102

MAHESWARI, P. *and* ROY, S. K.
1951 The embryo-sac of *Salix. Phytomorph.* 1: 71-72.
1103

1952 The embryo-sac and embryo of *Tridax procumbens* L. *Phytomorph.* 2: 245-252.
1104

MAHESWARI, P. *and* SACHAR, R. C.
1954 A reinvestigation of the embryogeny of *Isomeris arborea* Niltt. *Curr Sci.* 22(2): 61-63. Reinvestigation carried out for the purpose of confirmation or otherwise of the findings of Billings. The authors find that there are no exceptional features in the embryogeny of *Isomeris* except for an abnormal position of the embryo and the presence of endosperm nodules.
1105

MAHESWARI, P., SACHAR, R. C. *and* CHOPRA, R. N.
1955 Embryological studies in mango (*Mangifera indica* L.). (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 233-234. In this study, a number of Indian varieties, 3 from Philippines, and 2 from Ceylon have been included. The object of the study is to find out how far monoembryony and polyembryony occur in them.
1106

MAHESWARI, P. *and* SINGH, B.
1934 A preliminary note on the morphology of the aerial and the underground flowers of *Commelina bengalensis* Linn. *Curr. Sci.* 3: 158-160.
1107

MAHESWARI, P *and*
SINGH, UDAI BHAN
1930 The development of the female gametophyte of *Asphodelus tenuifolius*. *J. Indian bot. Soc.* 9: 31-38.
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MAHESWARI, P. *and*
SRINIVASAN, A. R.
1944 A contribution to the embryology of *Rudbeckia bicolor* Nutt. *New Phytol.* 43: 135-142.
1109

MAHESWARI, P. *and*
WULFF, H. D.
1937 Recent advances in microtechnic; methods of studying the development of the male gametophyte of angiosperms. *Stain Tech.* 12: 61-70.
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MAHESWARI, SATISH C.
1954 Embryology of *Wolffia*. *Phytomorph.* 4(3 & 4): 354-365.
1111

1955 The occurrence of bisporic embryosacs in angiosperms—a critical review. *Phytomorph.* 5(1): 67-99.
1112

1956 The endosperm and embryo of *Lemna* and systematic position of the *Lemnaceae*. *Phytomorph.* 6(1): 51-55.
1113

1956 The endosperm, embryo and seed structure in the *Lemnaceae*. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 234-235.
Shows that Lawalree's assignment of the family *Lemnaceae* to the *Helobiales* cannot be accepted. The author worked on *Wolffia* and *Lemna paucicostata* to arrive at this conclusion.
1114

MAHESWARI, SATISH C. *and*
KHANNA, P. P.
1956 The embryology of *Arisaema wallichianum* H.f. and the systematic position of the *Araceae*. *Phytomorph.* 6(3 & 4): 378-388.
1115

MAHESWARIDEVI, H.
1956 Embryological studies in a few *Asclepiadaceae* (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 238.
On the life history of *Calotropis gigantea*, *Pergularia* species and *Ceropegia juncea* Roxb.
1116

1957 Embryological studies in *Compositae; Gerbera jamesonii* Bolus. *Proc. Indian Acad. Sci.* B. 46(1): 68-74.
1117

1957 Embryology of *Jasminum angustifolium* Vah. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 237-238.
1118

MAHJU, N. A.
1933 A contribution to our knowledge of Indian coprophilous fungi. *J. Indian bot. Soc.* 12: 153-164.
1119

MAIDEN, J. H.
1903 A critical revision of the genus *Eucalyptus*. Sydney.
Published by the authority of the Govt. of New South Wales.
1120

MAJUMDAR, G. P.

1929 Vanaspathi; plants and plant-life as in Indian treatises and traditions. Calcutta, the University. xx, 254p.
Griffith memorial prize essay for 1925.
1121

1932 Hetero-archic roots in *Enhydra fluctuans* Lour. *J. Indian bot. Soc.* 11: 225.
1122

1934 On the occurrence of sori on the upper surface of the leaf of *Nephrolepis davallioides* var. *furcans*. *Curr. Sci.* 2: 382-383.
1123

1938 A preliminary note on the polystely in *Limnanthemum cristatum* and *Ottelia alismoides*. *Curr. Sci.* 6(8): 385-386.
1124

1939 On the occurrence of multiperforate plates in the xylem vessels of *Heracleum sphondylium*. *Proc. Leeds. phil. lit. Soc.* 3: 559-564.
1125

1940 Development and structure of protoxylem vessels in *Heracleum sphondylium* L. *Proc. Leeds. phil. lit. Soc.* 3: 642.
Studies in detail the development and structural differentiation of the protoxylem vessel in the shoot apex of *Heracleum* and follows the break down of the end walls and their lignification.
1126

1941 The origin and nature of the bases of the secondary thickenings of xylem vessels in *Heracleum sphondylium* L. *Curr. Sci.* 10(2): 82-83.
1127

1941 Origin of bicollateral bundles in the petiole of *Heracleum sphondylium*. (Letter). *Curr. Sci.* 10(2): 177-178.
1128

1941 Anomalous structure of the stem of *Nyctanthes arbortristis* L. *J. Indian bot. Soc.* 20: 119-122.
1129

1941 A new type of mechanical construction in the stem of *Panicum punctatum* Burm. (Letter). *Curr. Sci.* 10(5): 256-257.
Describes a new type of mechanical construction on the principle of a suspension bridge in the stem of *Panicum punctatum* to resist lateral compression and bending.
1130

1941 The collenchyma of *Heracleum sphondylium* L. *Proc. Leeds. phil. lit. Soc.* 4: 25.
A report on the origin, development and differentiation of collenchyma strands from groups of sub epidermal vacuolatine expanding cells.
1131

1942 The organisation of the shoot in *Heracleum* in the light of development. *Ann. bot. Lond.* (n.s.). 6: 49-81.
Attempts to show that different methods of development at the shoot apex affect interpretation of the shoot of dicotyledons and monocotyledons as an articulate structure built up of coalescing phytons.
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1942 The sliding, gliding and symplastic or the intrusive growth of the cambium cells and their derivatives in higher vascular plants. *J. Indian bot. Soc.* 20: 161.
1133

MAJUMDAR, G. P.—*contd.*

1942 The origin of the siphonostele in three species of *Selaginella* Spr. *Proc. Indian Acad. Sci.* B. 15(4): 172-177.
Deals with *Selaginella inaequalifolia*, *S. wallichii* and *S. canaliculata*. The amphiphloic siphonostele observed, originating as a result of fusion of separate steles.
1134

1945 The cell-wall and the importance of its study in modern researches. *Sci. & Cult.* 10(11): 466-472.
1135

1945 Some aspects of plant anatomy in modern research. *Sci. & Cult.* 10(Suppl.): 1-2.
1136

1947 Growth unit or the phyton in dicotyledons with special reference to *Heracleum*. *Bull. bot. Soc. Bengal.* 1: 60-66.
Supports the 'growth unit' or the phyton theory in dicotyledons.
1137

1948 Leaf development at the growing apex and phyllotaxy in *Heracleum*. (Abstr.). *Proc. 35th Indian Sci. Cong.* iii: 220; *Proc. Indian Acad. Sci.* B. 28(3): 83-98.
Discusses the origin of leaf in two stages—(1) initiation and (2) emergence. Shows that the place of origin of a primordium at the shoot apex is determined by the basifugally differentiating median procambial strand.
1138

1951 The role of anatomy in plant taxonomy. *Sci. & Cult.* 16(12): 541-542.
1139

1955 The foliage leaf and the axillary bud. *Trans. Bose Res. Inst.* 20(10): 87-94.
1140

1955 The complete foliage leaf. *Proc. Indian Acad. Sci.* B. 42(2): 65-72.
1141

1955 Induced ring-fasciation in Tomato plants. *Proc. Indian Acad. Sci.* 41(1): 1-7.
Based on the data provided by recently published researches of Gorter (1951) and Wardland (1953) who induced ring-fasciation in Tomato plants by the application of Tiba to their vegetative shoot apices
1142

1956 Stipules, stipels, ligules and leaf-sheath. *Proc. Indian Acad. Sci.* B. 43(1): 9-22.
Stipules, stipels, ligules and leaf sheaths have been described ontogenetically and phylogenetically with a view to examine their true morphology.
1143

1956 Adventive leaf buds of *Eranthemum bicolor*. *Proc. Indian Acad. Sci.* B. 44(2): 57-60.
1144

1957 Progress of science in India. New Delhi, National Institute of Sciences of India. iii, 263 p.
Ref.. Section 6 — Botany, including algology, mycology, plant pathology, bryology, pteridology, gymnosperms, angiosperms and applied botany, etc.; 1939-1950.
Is a continuation of the report on the same subject for the period 1914-1938 prepared by Prof. S. P. Agharkar and published by the Indian

MAJUMDAR, G. P.—*contd.*
Science Congress Association as the *Progress of science in India during the past twenty-five years.* In the appendix (p. 252-263) an account of botanical investigations that are now being carried out in different universities, colleges, research institutes and state agricultural departments is given
1145

MAJUMDAR, G. P. *and*
ARHAD ALI, MD.
1956 Developmental studies of *Phyllanthus niruri* L. and *P. reticulatus* Poir. (*Euphorbiaceae*) with special reference to the origin and nature of axillary vegetative buds. *Proc. Indian Acad. Sci.* B. 43(3): 149-160.
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MAJUMDAR, G. P. *and*
DATTA, AMIYA
1946 Developmental studies; origin and development of axillary buds with special reference to two dicotyledons. *Proc. Indian Acad. Sci.* B. 23(6): 249-259
On the initiation and development of axillary buds in *Heracleum* and *Leonurus.*
1147

MAJUMDAR, G. P. *and*
DATTA, R. M.
1935 The role of the nucleolus in the formation of spireme in the pollen mother cells of *Hibiscus mutabilis* L. *Cytologia.* 6: 320-328.
1148

MAJUMDAR, G. P. *and*
MITRA, G. C.
1948 The origin and development of the stipules in *Morus alba* L. *Bull. bot. Soc. Bengal.* 2: 178.
The authors have reinvestigated the origin and development of the stipules in the shoot apex of *Morus alba* and noted the difference between their observations and those of Cross, the original investigator.
1149

MAJUMDAR, G. P. *and*
PRESTON, R D
1941 The fine structure of collenchyma cells in *Heracleum sphondylium* L. *Proc. R. Soc.* B. 130: 201.
1150

MAJUMDAR, G. P. *and* SAHA, B.
1956 Nodal anatomy of the vascular system of the shoot of Rice plant (*Oryza sativa* L.). *Proc. nat. Inst. Sci. India.* B. 22(5): 236-245.
1151

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1937 A textbook of practical botany. Calcutta.
1152

MAJUMDAR, R.
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MAJUMDAR, R. P.
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1154

MALCOLMSON, JOHN G.
1843 Notes on fossil plants discovered in the sandstone rocks at Kamptee, near Nagpur. *J. Bombay Br. R. Asiat. Soc.* 1: 249.
1155

MALHOTRA, R. C.
1931 Changes in plants during low temperatures; oil synthesis at various elevations of the Himalayas and its physiological influence on the proto-

plasm of *Cedrus deodara*. *J. Indian bot. Soc.* 10: 293.
1156

1932 Influence of some solutions on the rate of permeability in *Zea mays* seeds. *J. Indian bot. Soc.* 11: 188.
1157

1932 Germination of *Zea mays* seeds as influenced by their protoplasmic immersion in water and desiccation. *J. Indian bot. Soc.* 11: 276.
1158

1932 The effect of the type of water of *Zea mays* protoplasm. *J. Indian bot. Soc.* 11: 327.
1159

1933 Changes in plants during low temperatures. *J. Indian bot. Soc.* 12: 183.
1160

1933 Changes in plants in low temperatures; some chemical and anatomical changes in plants grown under controlled temperatures. *J. Indian bot. Soc.* 12: 273.
1161

MALL, L. P.

1954 Germination of seeds of three common weeds of dry phase of low-lying lands. *Proc. nat. Acad. Sci. India* 24: 197-204.
Investigates the effects of some pre-treatments of the germination of seeds of *Heliotropium supinum*, *Polygonum plebejum* and *Mollugo hirta*.
1162

1958 Plant community in low-lying areas of Sagar. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 325.
Gives a list of species collected.
1163

MALLIK, P. C.

1957 Morphology and biology of the mango flower. *Indian J. Hort.* 14(1): 1-23.
Holds that huge wastage of flowers and comparatively fewer production of mature fruits, observed in nature, can be remedied, by the production of fewer number of panicles and flowers (as found in some years in the same varieties) by cultural methods or by raising types with such qualities.
1164

MANI, M. S.

1933 Cyst formation in plant galls. *Curr. Sci.* 2(1): 18-19.
1165

1933 Plant galls as natural checks for wild vegetation. *Curr. Sci.* 2: 146-147.
1166

1948 Cecidozoa and zoo-cecidia from India. *J. Asiat. Soc. Bengal.* 14: 27.
1167

1952 Some gall-midges (*Itonididae*: *Diptera*) associated with *Mangifera indica* L. in India and their galls. *Agra Univ. J. Res.* 1: 47-54.
10 out of 16 midge galls known so far occur in India. A synoptical key to help in recognising the galls is given.
1168

1953 On a collection of plant galls and gall midges from India. *Agra Univ. J. Res.* 2(2): 247-265.
Plant galls and gall midges described in this paper were mostly collected by the author from various localities in India. 25 galls on various plants have been described.
1169

MANI, V. K. S.

1945 Vivipary in *Malus*. (Letter). *Curr. Sci.* 16(10): 321.
8 healthy seedlings and 2 seeds were found inside an apple fruit.
1170

MANICKAM VAIDYAN, K.

1936 Ashtanga hridaya koshah; with the Hridaya prakasha. Trichur. Mangalodayam Press. 654p.
A critical explanatory commentory in Devanagari script. All drugs of the *Ashtanga hridaya* are described in Sanskrit, with botanical names, as well as names in the major languages of India.
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1945 Trayi koshah. Trichur, Mangalodayam Press. 472p.
A book referring to the drugs mentioned in *Ashtanga hridaya, Caraka* and *Susruta* with their properties and uses. In the Malayalam language.
1172

MANIKKA NAICKER, P. V.

1933-34 Mara nool—botany. *Shend-Tamil Chelvy*. 12: 89-93, 130-132.
In the Tamil language.
1173

MANN, H. H.

1901 Red rust, a serious blight on the Tea plant. Calcutta, Printed at the City Press. 26p.
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1916 Fodder crops of western India. Bombay, Dept. of Agric. 152p. (Bull. Dept. Agric. Bombay. no. 77).
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1920-22 Variation in the flower of *Jasminum*. *J. Linn. Soc.* 45: 155.
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MANN, H. H. *and* HUTCHINSON, C. M.

1904 Red rust, a serious blight of the Tea plant. Calcutta, Tea Assn. (Bull. Tea Assn. Calcutta).
1177

1906 *Cephaleuros virescens* Kunze, the red rust of tea. *Mem. Dept. Agric. India.* 6: 1-33.
1178

MANN, H. H *and* KANTIKAR, N. V.

1914 Notes on the fat of *Garcinia indica*, the so-called Kokam butter. *J. Asiat. Soc. Bengal.* 10: 293.
1179

MANN, PATRICIA

1952 Systematics of flowering plants—an introduction. London, Methuen & Co. x, 307p.
1180

MANNING

1931 Abnormal Teak plant. *Indian For.* 57: 579.
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MANSFELD, R.

1924 Vorarbeiten zu einer Monographie der Gattung *Ligustrum*. *Beibl. Bot. Jb.* 132: 19-75.
Refers to *Ligustrum robustum* B. var. *walkeri* (Dcne.) Mansfeld (=*L. walkeri* Dcne.), *L. perrottetii* var. *neilgherrense* (Wt.) Mansfeld (=*L. neilgherrense*), *L. nepalense* var. *grandiflorum* (Wall.) Mansfeld (=*L. nepalense*, Subsyn. *Olea grandiflora* Wall.).
1182

MANSFELD, T. C.

1946 Roses in color and cultivation. New York, Dutton & Co. vii, 263p.
1183

MANSON, F. R. *and* HAINES, H. H.
1892 Tables for use with Brandis's 'Hypsometer' for measuring the height of trees, etc. Calcutta, Printed at the Bengal Secretariat Press. v, 40 p.
1184

MANTON, I.
1950 Problems of cytology and evolution in pteridophyta. London, Cambridge University Press. 316p.
1185

1954 Cytological notes on one hundred species of Malayan ferns. *Holtumm's Flora of Malaya.* 2: 623-643.
1186

MANTON, I. *and* SLEDGE, W. A.
1954 Observations on the cytology and taxonomy of pteridophyte flora of Ceylon. *Phil. Trans.* B. 230: 127-185.
1187

MAPLESTONE, P. A. *and* DEY, N. C.
1939 A *Microsporum* new to India. *Indian med. Gaz.* 74: 148-151.
1188

MARCHAND, L.
1868 *Anacardiacees.* Paris.
1189

1868 Recherches sur l'organisations des *Burseracees.* Paris.
1190

1868 Histoire de l'ancien groupe des *Terebinthacees.* Paris.
1191

MARI GOWDA
1951 The genus *Pittosporum* in the Sino-Indian region. *J. Arnold Arbor.* 32: 263-343.
1192

MARIMUTHU, K. M.
1956 Studies in colonization and succession of plants in shade and sun in the Botanic Garden at Annamalainagar. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 275-276.
1193

MARKGRAF, F. R.
1929 Monographie der Gattung *Gnetum. Bull. Jard. bot. Buitenz.* (S. 3). 10(3): 407-511.
The following name changes are made: *Gnetum gnemon* L. var. *brunonianum* (Griff.) Markg. and var. *griffithii* (Parl.) Markg:, *G. latifolium* B. var. *macropodum* (Kz.) Mgf., *G. latifolium* Bl. var. *funiculare* (Bl.) Mgf., *G. montanum Mgf.* (=*G. scandens* Auct.) and var. *megalocarpum* Mgf. (Assam—Duphla), *G. ula* Brongn. (=*G. scandens* Brandis), *G. contractum* Mgf. sp. nov. (Travancore, Kotagiri) and *G. oblongum* Mgf. sp. nov. (Chittagong).
1194

1935 Die Gliederung der asiatischen *Tabernamontanoideen. Notizbl. bot. Gart. Berl.* 115: 540-552.
The following new genera and new combinations have been described. *Pagiantha* Markgf. gen. nov., *Testudipes* Markfg. gen. nov. and *Distanthera* Markgf. gen nov.; *Pagiantha dichotoma* (Roxb.) Markgf. (=*Tabernamontana dichotoma* Roxb.), *Pagiantha corymbosa* (Roxb.) Markgf. (=*T. corymbosa* Roxb.), *P. heyneana* (Wall.) Markgf. (=*T. heyneana* Wall.), *Testudipes recurva* (Roxb.) Markgf. (=*Tabernamontana recurva* Roxb.), *T. helfairiana* (Wall) Markgf. (=*Tabernamontana helfairiana* Wall.).
1195

MARKHAM, CLEMENTS R.

1860 On the introduction of Cinchona plant into India. *Trans. med. phys. Soc. Bombay.* (ns.). 6: 333-362.
Relates the history of the Chinchona plant, with an account of the forests of South America, where the best specimens grow. Records the labours of the explorers, and the proceedings connected with the cultivation of Chinchona plants in India.
1196

1861 Botanical descriptions of the species of *Cinchonae* (now growing in India and Ceylon), with some notes taken from Howard's Nueva quinologia de Pavon, Weddell's Histoire naturelle de quinquinas and Poeppig's Reise. 31p.
1197

1866 The effects of the destruction of forests in the Western Ghats of India on the water supply. *J. R. geogr. Soc.* 36.
1198

1876 Narratives of the mission of George Bogle to Tibet and of the journey of Thomas Manning to Lhasa; edited with notes, an introduction, and lives of Mr. Bogle and Mr. Manning. London, Trubner & Co. clxi, 354p.
Second edition published in 1879.
Account of the first mission to Tibet sent by Warren Hastings in 1774 under George Bogle. Manning's journey to Lhasa was done about the year 1811. Contains a geographical sketch of the Himalayan system and historical sketch of Tibet, besides many other matters relating to Darjeeling, Sikkim, Bhutan and Nepal.
1199

1880 Peruvian bark, a popular account of the introduction of Cinchona cultivation in British India. London, John Murray, xxiii, 550p.
1200

MARKHAM, E.

1935 *Clematis*, the large and small flowered; their cultivation in the open air, including a comprehensive list of species and varieties. London, Country Life Ltd.; New York, C. Scribner's Sons. 115p.
1201

MARKOVICH, V. V.

1926 Indeeling van het geslacht *Citrus*. *Landbouw, Buitenzorg.* 2: 241-263.
1202

1930 Commercial mandarin of India—*Citrus khasya* sp. nov. —Sohniamtra or Suntara. *Subtropiki.* 2(3-4): 96-105.
In Russian with an English summary.
1203

1931 Rubber plants of India and Java. *Bull. appl. Bot. Pl. Breed.* 26(1): 77-140.
In Russian with an English summary.
1204

MARLIN, E. V. *and* CLEMENTS, F. E.

1935 Studies of the effect of artificial wind on growth and transpiration in *Helianthus annuus*. *Plant Physiol.* 10: 613-636.
1205

MARQUAND, C. V. B.

1924 Revision of the genus *Cyananthus*. *Kew Bull.* [ ]: 241-255.
1206

MARQUAND, C. V. B.—*contd.*

1925 The botanical collections made by Capt. Kingdon-Ward in the eastern Himalayas and Tibet in 1924-25. *J. Linn. Soc.* 47: 149-229.
1207

1928 Collections of Kingdon-Ward from eastern Tibet. *J. Linn. Soc.* 48.
1208

1928-31 New Asiatic *Gentians*. *Kew Bull.* (1928): 49-62; (1931): 68-88.
1209

1930 Revision of the old world species of *Buddleia*. *Kew Bull.* [ ]: 177-208.
1210

1932 The cultivated *Gentian* of China and the Himalayas. *J. R. hort. Soc.* 57: 188-211.
1211

1937 A new *Cotoneaster* from Tibet. *Kew Bull.* 2: 119-120. Describes *Contoneaster conspicua* Comber raised from seeds collected by Capt. Kingdon-Ward in Tibet in 1924. It was described in 1936 by James Comber in the *Gdnrs' Chron.*
1212

1937 The *Gentians* of China. *Kew Bull.* 3: 134-180. Describes the *Gentian* flora of Tibet-Burma frontier. They are *Gentiana otophora* Franch apud Hemsley, *G. otophoroides* H. Sm., *G. damyonensis* Marq., *G. sichitoensis* Marq., *G. caryophyllaea* H. Sm., *G. tsarongensis* Balf. f., *G. striata* Maxim, *G. bomarooides* Marq., *G. iochroa* Marq., *G. crawfurdoides* Marq., *G. membranaceae* Marq., and *G. bulleyana* (Forrest) Marq. (=*Crawfurdia bulleyana* Forrest).
1213

1937 Contribution to the *Gentian* flora of southern Tibet, N.-E. Burma and Bhutan. *Kew Bull* 3: 180-191. Enumerates 48 species of *Gentiana* belonging to the recent collections made by F. Kingdon-Ward, F. Ludlow, G. Sheriff and K. N. Sharma. Five new species are described. They are *Gentiana microtophora, G. lhakangensis, G. ludlowi* and *G. muscicola.*
1214

MARRIOT, R. G.

1917 The Sal forests of the Gorakhpur Division. *Indian For.* 43: 442-456.
1215

MARSHALL, H.

1824 Contribution to the natural and economic history of the Coconut tree. *Mem. Wern. Soc.* 4(1): 107.
1216

1836 The Cocoanut tree. Edinburgh.
1217

MARTELLI, UGOLINO

1890 Revista monografica del genere *Androsace*. Firenze. 40p.
1218

1904 Pandani Asiatici nuovi. *Bull. Soc. bot. Ital.* 6: 298.
1219

1913 Enumeratione della *Pandanaceae*. Firenze.
1220

1914 Le specie e varieta nuove *Pandanus* menzionate nella enumeratione della *Pandanaceae*. *Webbia*. 3(2).
1221

MARTELLI, UGOLINO *and* BECCARI, O.

1924 Palme della tribu *Borasseae*. Firenze.

1222

MARTENS, G. VON

1870 A third list of Bengal algae. *Proc. Asiat. Soc. Bengal.* [ ]: 9-12.

1223

1870 A fourth list of Bengal algae. *Proc. Asiat. Soc. Bengal.* [ ]: 257-260.

1224

1871 A fifth list of Bengal algae. *Proc. Asiat. Soc. Bengal.* [ ]: 170.

1225

1871 A list of algae collected by Kurz in Burma and adjacent islands. *J. Asiat. Soc. Bengal.* 40(2): 461.

1226

MARTEN, JAMES

1909 Plants gathered in and about Mussorie during 1908. *J. Bombay nat. Hist. Soc.* 18: 475-501.

1227

1909 List of ferns found at and around Mussorie. *J. Bombay nat. Hist. Soc.* 19: 179-183.

1228

MARTIN, CLAUDE

1919 Drawings of Indian plants; 600 water colour drawings, made between 1756-1776. *Kew Bull.* [ ]: 207.

1229

MARTIN, G. W., THIND, K. S. *and* SOHI, H S.

1957 The *Myxomycetes* of the Mussoorie Hills. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 223.
Describes 3 new species of *Myxomycetes* collected in 1952.

1230

1957 The *Myxomycetes* of the Mussoorie Hills. *Mycologia.* 49(1): 128-133.
Describes *Stemonitis mussooriensis, Lamprodema verrucosum* and *Tubifera papillata.*

1231

MARTINS, CHARLES

1866 Memoire sur les racines aeriferes ou vessies notatoires des especes aquatiques du genre *Jussiaea* suivi d'une note sur la synonymie et la distribution geographique du *Jussiaea repens* de Linne. Montpellier, Boehm. 32p.

1232

MARTIUS, C. F. P.

1823-50 Historia naturalis palmarum. Lipsiae, T. O. Weigel. 3v.

1233

1825 Beitrage zur Kenntnis der naturalische Familie der *Amarantaceen. Nova Acta Leop. Carol.* 13: 209-322.

1234

MARUDARAJAN, D.

1950 Note on *Orobanche cernua* Loefl. *Curr. Sci.* 19(2): 64-65.
Orobanche cernua var. *desertorum*—a common parasite on tobacco causes wilt, affects the yield and quality of the leaf. Remedial measures suggested.

1235

MASON, FRANCIS

1847 On the gamboge of the Tenasserim Provinces. *J. Asiat. Soc. Bengal.* 16: 661.

1236

1848 The liquid-amber tree of the Tenasserim Provinces. *J. Asiat. Soc. Bengal.* 17: 532.

1237

MASON, FRANCIS—*contd.*

1849 The Pine tree of the Tenasserim Provinces. *J. Asiat. Soc. Bengal.* 18: 73.

1238

1850 The natural productions of Burma; or, Notes on the fauna, flora and minerals of the Tenasserim provinces and the Burman empire. Moulmein, American Mission Press. 7 p.l., viii, 382p.

Appended with an index of plants followed by an index of Burmese names. The plants mentioned in this book were collected by Mason, Carey, Wallich and Griffith.

1239

1851 Flora Burmanica; or, A catalogue of plants, indigenous and cultivated, in the valleys of Irrawaddy, Salween and Tenasserim from Notes on the fauna, flora and minerals for the Tenasserim provinces and the Burman empire. Tavoy, Karen Mission Press. [132]p.

1240

1852 Tenasserim fauna, flora, minerals and nations of Burma and Pegu. Moulmein.

1241

1860 Burmah, its people and natural productions; or, Notes on the fauna, flora and minerals of Tenasserim, Pegu and Burmah, with systematic catalogue of the known mamals, birds, fish, reptiles, insects, mollusks, crustaceans, annalids, radiates, plants and minerals, with vernacular names; 2nd ed. London, Trubner & Co.· Rangoon, Thos. Stowe Ranney. xvii, 913p.

First published in 1852. Subsequent edition published in two volumes in 1882-83.

Deals with the botany of lower Burma. An instructive introduction followed by a description of the Burmese forests, classified into 10 different types. The systematic portion starts with *Algales* of the Cryptogams and ends with the *Ranunculaceae* of the Phanerogams. The arrangement, as the editor says is after Maout & Decaisne.

1242

1860 The Burmese flora. Rangoon. 96p.

1243

1868 Burmese handbook of medicine. Toungoo.

1244

1903 The threatened extinction of *Santalum album* in southern India. *Pharm. J.* (S. 4). 16: 756.

1245

MASON, KENNETH

1934 Expeditions: a journey to Bhutan. *Himalayan J.* 6: 143-145.

The journeys of Mr. and Mrs. F. Williamson and Messrs. G. Sheriff and F. Ludlow are briefly reviewed in this article. The zones of vegetation crossed by them correspond with those given by Kingdon-Ward for his Mishmi Hills journey. Conifer belt starts at about 8,000 ft. although *Pinus longifolia* occurs at a much lower elevation. Between 8,000 and 10,000 ft. *Tsuga brunoniana* and *Larix griffithii* and between 10,000 and 12,000 ft. *Abies webbiana* in large forest make their appearance. Alpines and Rhododendrons scrub occur between 12,000 and 13,500 ft.

1246

MASON, KENNETH—*contd.*

1936 Rainfall and rainy days in the Himalayas, west of Nepal. *Himalayan J.* 8: 86-95.
The subject is discussed under 10 groups of stations, lying west of Nepal and extending from Almora and Nainital to Gilgit and Chitral beyond the great Himalayas.
1247

MASSON, C.

1842 Narrative of various journeys in Balochistan, Afghanistan and the Punjab, including a residence in those countries from 1826 to 1838. London, Richard Bentley. 3v.
1248

1843 Narrative of a journey to Kalat including an account of the insurrection at that place in 1840 and a memoir on eastern Balochistan. London, Richard Bentley. xii, 463p.
1249

MASTERS, J. W.

1840 Calcutta flora, containing a synopsis of plants indigenous to or cultivated in vicinity of Calcutta. *Trans. agri-hort. Soc. India.* 7: 39-85.
1250

1844 Observations on the flora of the Naga Hills. *J. Asiat. Soc. Bengal.* 13: 707-734.
1251

1844 A memorandum by J. W. Masters on the most useful timber trees of Assam. *J. agri-hort. Soc. India.* 3(2): 6-20.
1252

1845 Botanical observations in upper Assam; being part of a report on the operations of the Assam company in the southern division to the month of Feby., 1843. *J. agri-hort. Soc. India.* 4(1): 197-234.
1253

1848 A memoir of some of the natural productions of the Angami Naga Hills and other parts of upper Assam. *J. agri-hort. Soc. India.* 6: 34-55.
1254

1848 Extract from a memoir of some of the natural products of the Angami Naga Hills and other parts of upper Assam. *J. Asiat. Soc. Bengal.* Pt. 1; 17: 57-59.
1255

1848 Extract of a letter from...respecting his travels and his collections in Assam. *Calcutta J. nat. Hist.* 7: 364-368.
1256

1862 Notes on an unusual mode of germination in the mango (*Mangifera indica*). *J. Linn. Soc.* 6: 24-26.
1257

1869 Vegetable teratology; an account of the principal deviations from the usual construction of plants. London.
1258

1871 Contributions to the natural history of *Passifloraceae*. *Trans. Linn. Soc. Lond.* 27: 593-645.
1259

MASTERS, M T.

1874 *Malvaceae. Hk's Fl. Brit. India.* 1: 317-353.
Describes 22 genera including *Sida, Abutilon, Hibiscus, Gossypium* and *Bombox*. Mostly soft wooded trees, shrubs and some herbs.
1260

MASTERS, M. T.—*contd.*

1874 *Sterculiaceae. Hk's Fl. Brit. India.* 1: 353-379.
Describes 17 genera including *Sterculia, Pterospermum, Eriolaena* and *Buettneria.*
1261

1874 *Tiliaceae. Hk's Fl. Brit. India.* 1: 379-409.
Describes 13 genera including *Grewia, Corchorus* and *Elaeocarpus.*
1262

1875 Remarks on the structure, affinities and distribution of the genus *Aristolochia,* with description of some hitherto undescribed species. *J. Linn. Soc.* 14: 487.
1263

1875 *Olacineae. Hk's Fl. Brit. India.* 1: 572-598.
23 genera are described. *Olacineae* in Hooker's work is a very heterogenous group of plants.
1264

1879 *Passifloraceae. Hk's Fl. Brit. India.* 2: 598-603.
Describes 3 genera: *Passiflora, Paropsia* and *Modecca.*
1265

1889 *Skimmias. Gdnrs' Chron.* (S. 3). 5: 519-521.
1266

1891 Some features of interest in the order of Conifers. London. Reprinted from *J. R. hort. Soc.* 14.
1267

1896 A general view of the genus *Cupressus.* London. Reprinted from *J. Linn. Soc.* 31: 312-363.
1268

1897 The species of *Thuja. Gdnrs' Chron.* (S. 3). 21: 213-214.
1269

1903 A general view of the genus *Pinus. J. Linn. Soc.* 35: 560-569.
1270

1908 On the distribution of the species of Conifers in China and on the occurrence of the same species in neighbouring countries. *J. Linn. Soc.* 38: 198-205.
1271

MATEER, S.

1870 Remarks on the Tamil popular names of plants. *J. Linn. Soc.* 13: 25-30.
1272

MATHAI, GEORGE

1947 Prof. George Mathai (Obituary), by Birbal Sahni. *Curr. Sci.* 16: 279-280.
1273

MATHAUDA, G. S.

1953 The tree species of tropical evergreen ghat forests of Kanara (Bombay) and their rate of growth. *Indian For.* 79(4): 208-233.
Four permanent linear tree increment plots were laid out in 1939 in the eastern and western Kanara forests division of Bombay in order to facilitate the identification of the complex tree flora of the local tropical wet evergreen forests and to determine the rate of growth of individual tree species. The information collected on these plots during 1939-49 forms the basis of this note.
1274

MATHAUDA, G. S.—*contd.*

1958 Impressions of a tour in Rajasthan. *Indian For.* 84(7): 418-423.
The author passed through 10 out of 12 forest divisions in Rajasthan. He gives an account of the types of vegetation in Rajasthan and the floristic components in those forest vegetational types. Continental type of vegetation is met with.
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MATHEW, K.

1956 On the fossils of Neiveli; ecological. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 260-261.
Deals with a different kinds of mummified leaf articles belonging to 4 different species of plants found in the folds of the fragile lignite from Neiveli (S. Arcot, Madras State).
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MATHEW, P. M.

1958 Studies on the *Menispermaceae. Proc. Indian Acad. Sci.* 47: 274-286.
Deals with the cytology of six species of the *Menispermaceae*: *Tinospora cordifolia, Anamirta cocculus, Tiliacora racemosa, Stephania rotunda, Cissampelos pereira* and *Cyclea peltata.*
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1958 Studies on *Piperaceae. J. Indian bot. Soc.* 37(1): 154-171.
Cytology of nine species of *Piper, Heckeria* and *Peperomia* has been studied and reported. Chromosome numbers in the genus *Piper* are n =26, 2n = 52.
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MATHUR, A. K.

1949 Angiospermic parasites of our forests. *Indian For. Rec.* 11: 449-456.
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MATHUR, K. L.

1934 A note on the presence of parietal cells in the nucellus of *Convolvulus arvensis* L. *Curr. Sci.* 3: 160.
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1940 A note on the development of the embryo-sac in *Vogelia indica* Lamk. *Curr. Sci.* 9(4): 180-182.
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MATHUR, K. L *and* KHAN, REYAT

1941 The development of the embryo-sac in *Vogelia indica* Lamk. *Proc. Indian Acad. Sci.* B. 13(6): 360-368.
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MATHUR, L. N.

1925 On a Lahore moss: *Trematodon brevicalyx* Dix. *J. Indian bot. Soc.* 4: 287.
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MATHUR, NIRMALA

1956 The embryology of *Limnanthes. Phytomorph.* 6(1): 41-51.
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1937 Prof. R. K. Mathur (Obituary), by Birbal Sahni. *Curr. Sci.* 5(7): 365-366.
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MATHUR, R. N.

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Manuscript. Connemara Library, Madras. In the Tamil language.
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1931 Genic analysis in *Avena*. *J. Fac. Sci. Hokkaido Univ.* (S.5). 1(2): 77-107.

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MATTHIESEN, FRANZ

1908 Beitrage zur Kenntnis der *Podostemaceen*. *Bibl. bot. Stuttgart*. 15(68).

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1867 Die Nikobaren, Colonialgeschichte und Beschreibung nebst motivirtem Vorschlage zur Colonisation dieser inseln durch Preusen. Berlin, C Heymann. x, 320 p.

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MAURIN, E. H. A.

1863 Essai sur la famille des *Menispermacees*. Strasb.

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MAURIBZON, J

1935 Kritic von J. Wiger's Abhandlung "Embryological studies on the families *Buxaceae, Meliaceae, Simaroubaceae* and *Burseraceae*." *Bot. Notiser*. [ ]: 490-501.

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MAURY, P.

1886 Etudes sur la organisation et la distribution geographique des *Plumbaginacees*. *Ann. Sci. nat. Bot.* 4: 1-134.

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MAXOMOUICZ, C. J.

1867 Revisio Hydrangearum Asiae orientalis. Petersburg.

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MAYBERRY, M. A.

1933 Comparative anatomical research within the genus *Lonicera*. *Kans. Univ. Sci. Buli.* 22: 27-53.

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MAYER, FRITZ

1909 Systematisch-anatomische Untersuchung der *Pogostemoneae*. Erlangen. 88p.

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MAYNARD, E. P. *and* PRAIN, D.

1896 A note on the botany of the Baluch-Afghan Boundary Commission. *Rec. bot. Surv. India*. 1(8): 125-137.

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MAYURANATHAN, P. V.

1926 Some weeds quite recently introduced into the city of Madras. (Abstr.). *Proc. 13th Indian Sci. Cong.* iii: 217.
Croton sparsiflorus, Alternanthera echinata, Gomphrena decumbens, Portulaca pilosa L. and *Melochia nodiflora* are some of the weeds noticed.

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1929 The flowering plants of Madras City and its immediate neighbourhood. *Bull. Madras Govt. Mus.* (n.s.) 2: 1-345.

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1934 On the introduction and spread of *Euphorbia geniculata* Orteg. in south India. *Curr. Sci.* 3(6): 254.
Observes that this American exotic was introduced by one Stephen into the Lalbagh, Bangalore, about the year 1891. It seems to have spread throughout the Mysore State and even as far as Madras City by 1934. The leaves are said to have purgative properties.

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1936 On the flowering of the *Strobilanthes* in 1934. *J. Bombay nat. Hist. Soc.* 38(3): 635.

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MAYURANATHAN, P. V.—*contd.*

1938 The original home of the coconut. *J. Bombay nat. Hist. Soc.* 40: 174-182.
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1939 Variation in the leaves of *Euphorbia caducifolia* Haines. *J. Bombay nat. Hist. Soc.* 41(1): 183-185.
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MEASHAM, J. E.

1940 *Vitex peduncularis* in the treatment of Black water fever. *Indian med. Gaz.* 75(1): 25-28.
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MEDLICOT, H. B.

1881 Submerged forest on Bombay Island, observations by G. E. Ormiston. *Rec. geol. Surv. India.* 14: 320.
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1906 Vegetationsbilder aus dem Himalaya. *Jber. schless. Ges. vater. Kult.* 84: 20-31.
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1909 Die Vegetationsverhaltnisse von Maisor. *Jber. schless. Ges. vater. Kult.* 87: 35-46.
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1909 Eine botanische Reise durch Kashmir. *Bot. Jb.* 43(99): 63-172.
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1923 On the mode of infection and perennation of the smut of "Dobb" (*Cynodon dactylon* Pers.). *J. Indian Bot. Soc.* 2: 243.
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MEHRA, K. L.

1955 Chromosome races in *Chrysopogon montanus*. *Curr. Sci.* 24(3): 95-96.
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MEHRA, K. R.

1956-57 A taxonomic survey of the *Zygnemataceae* of Bombay; and the life history of a new genus of *Chlorococcales*. Thesis accepted for the M.Sc. Degree of the University of Bombay.
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MEHRA, P. N.

1932 A note on the occurrence of superficial sori in *Osmunda claytoniana*. *J. Indian bot. Soc.* 11: 146.
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1932 *Ceropteris calomelanos* L. in Sikkim. *J. Indian bot. Soc.* 11: 340.
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1932 Occurrence of the tracheids in the gametophyte of *Adiantum lunulatum* Burm. *Curr. Sci.* 1: 40.
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1932 Peculiarition of the gametophyte of *Adiantum capillus-veneris*. *Curr. Sci.* 1: 169.
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1933 Some physiological investigations of fern prothalli under cultural conditions. *Curr. Sci.* 1: 170.
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1934 Artificial culture of the male gametophyte of *Ephedra foliata* Boiss. and *E. gerardiana* Wall. and a study of the number and morphology of their chromosomes. *Curr. Sci.* 3(1): 11-14.
Haploid number of chromosomes in *E. gerardiana* is 14 and in *E. foliata* is 7.
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1938 A study of the chromosome numbers in some Indian members of the family *Codoniaceae*. *Proc. Indian Acad. Sci.* B. 8(1): 1-7.

MEHRA, P. N.—*contd.*

A study of *Fossombronia himalayensis* Kash., *Petalophyllum indicum* Kash. and *Sowardiella tuberifera* Kash. The diploid chromosome number in each case is 18, but the morphology varies in each case.

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1938 Abnormal sporocarps in *Marsilea minuta* Linn. *Proc. Indian Acad. Sci.* B. 8(1): 8-10.

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1938 Apogamy in *Adiantum lunulatum* Burm.; morphological. *Proc. Indian Acad. Sci.* B. 8(3): 192-201.

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1938 Apogamy in *Pteris biaurita* Sm. *Proc. Indian Acad. Sci.* B. 8(3): 202-210.

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1938 Some abnormalities in the female strobilus of *Ginkgo biloba* L. *Proc. Indian Acad. Sci.* B. 8(3): 211-217.

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1938 The germination of pollen grains in artificial cultures in *Ephedra foliata* Boiss. and *Ephedra gerardiana* Wall. *Proc. Indian Acad. Sci.* B. 8(3): 218-230.

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1939 Ferns of Mussoorie. Lahore, Punjab University.

94 species of which *Polypodium kashyapii* is a new species, have been described with copious notes on their distribution and ecological habitats.

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1944 Rhizome anatomy of the fern *Pteris (Campteria) wallichiana* (AG.). *Proc. Lahore phil. Soc.* 6: 50-53.

The rhizome is a dicyclic solenostele. The outer ring alone is responsible for giving rise to a simple C-shaped leaf trace.

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1946 Colchicine effect on the mitotic division of the body nucleus in the pollen grains of some *Ephedra* sps. *Proc. nat. Inst. Sci. India.* B. 12(7): 333-334.

Chromosomes are sensitive to the action of drug. Vacuolation of the cytoplasm, straightening, scattering and contraction of the chromosomes as well as splitting of the daughter chromosomes are some of the effects of the drug on the body nucleus in the pollen grains of the different species of *Ephedra*.

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1946 Method of formation of diploid pollen and development of male gametophyte in *Ephedra saxatilis* Royle. *J. Indian bot. Soc.* 25: 121.

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1946 A study of karyotypes and the occurrence of diploid male gametophytes in some species of *Ephedra*. *Proc. nat. Acad. Sci. India.* 16(5 & 6): 259-286.

7 species were investigated. They all had an innate tendency to produce diploid pollen which produced diploid male gametes. The basic chromosome number is 7 in some species. *E. altissima* var. *algerica* has 14.

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MEHRA, P. N.—*contd.*

1948 Chromosome number in *Cryptomitrium himalayense* Kash. *J. Indian bot. Soc.* 27: 103.
Observes that 9 is the haploid number of chromosomes of this species. They are very variable and the smallest one leads the others to the pole at anaphase.
1329

1949 Effect of Sulphanylamide on mitotic division in pollen grains of *Ephedra*. *Bot. Gaz.* 3: 53-63.
It was found that the drug was effective in dilute strengths and produced the same effects as Colchicine.
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1949 Some observations on the prothallus of *Diplazium esculentum* (Retz.) SW. *J. Indian bot. Soc.* 28: 28-35.
163.
Studies the gametophyte of the fern. Observes a correlation between sex and size, and that the larger ones bear only archegonia, while the smaller ones only antheridia. Concludes that sex is qualitative and not quantitative antheridia dehisce by the bodily throwing-off of the opercular cell.
1331

1949 Cytological investigation of apogamy in *Adiantum lunulatum* Burm. *Proc. nat. Acad. Sci. India.* 14: 189-204.
Studies the cytology of apogamy in *Adiantum lunulatum*. The species is reported to possess obligated apogamy, and it shows occurrence of tracheids in the gametophyte as a normal feature. The species is considered to be a hybrid haploid.
1332

1950 Occurrence of hermaphrodite flowers and the development of the female gametophyte in *Ephedra intermedia* Shrenk & May. *Ann. Bot. Lond.* (n.s.). 14: 165.
Observes that hermaphrodite flowers occur occasionally in this tetraploid species and that sexual polymorphism also prevails. Suggests that the ancestral stock of the gnetales possesses hermaphrodite flowers with 2 whorls of perianth of 2 leaves each.
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1950 Inequality of size in the male nucleus in genus *Ephedra*. *Ann. Bot. Lond.* (n.s.). 14: 331-339.
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1958 Taxonomy of Pteridophytes. *Mem. Indian bot. Soc.* [ ]: 30-36.
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MEHRA, P. N. *and* BHATNAGAR, J. K.

1958 A comparative study of 'Satawar' and its supposed botanical source. *Indian J. Pharm.* 20(2): 33-40.
Gives a pharmacognostic description of 'Satawar' with illustrations.
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MEHRA, P. N. *and* BIR, S. S.

1957 Cytology of some Indian species of genus *Asplenium* L. *Curr. Sci.* 26(5): 151-152.
Six species of *Asplenium* collected from Mussoorie have been studied cytologically and the results recorded.
1337

1958 Cytology of some Blechnoid ferns together with a note on the affinities of *Stenochlaena*. *Proc. nat. Inst. Sci. India*. B. 24(2): 47-53.
Chromosome numbers from meiosis have been studied in the type species of three genera of the *Blechnaceae*. In *Blechnum orientale* and *Woodwardia radicans* the n = 73. The phylogenetic affinity of *Stenochlaena* is discussed. A new character of value has been brought to light. The species discussed were collected in the Darjeeling Himalayas.
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MEHRA, P. N. *and* CHOWDHURY, N. P.
1957 Pteridology; 1939-1950. *Progress of Science in India, Section 6, Botany*. p. 31-41.
The authors consider the decade 1939-1950 as an age of renaissance, with regard to the study of pteridophyta of India. *Psilotaceae, Selaginellaceae, Isoetaceae, Lycopodiaceae* and *Equisetaceae* have received their share of attention from Indian pteriodologists. The review is considered under: (1) Morphology and distribution, (2) Systematics, and (3) General. Ferns of Himalayan regions have alone received attention to the utter neglect of other parts of India.
1339

MEHRA, P. N. *and* GURDIP SINGH
1956 Cytology of Indian *Gleicheniaceae*. *Curr. Sci.* 25(5): 168.
Hicriopteris glauca (Thunb.) Ching. (= *Gleichenia glauca* Hook.) and *Dicranopteris linearis* (Burm.) Underwood (= *Gleichenia linearis* Burm.) show 56 and 39 bivalents respectively at the metaphase.
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1957 Cytology of *Hymenophyllaceae*. *J. Genet.* 55(2): 379-392.
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MEHRA, P. N. *and* KACHROO, P.
1951 Sporeling germination studies in *Marchantiales; Reboulia-ceae*. *Bryologist*. 54: 1-16.
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1951 Sporeling germination studies in *Marchantiales; Stephensoniella brevipedunculata*. *Bryologist*. 55: 59-64.
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1951 Chromosome morphology of some species of *Lilium* and *Fritillaria*. *Phytomorph*. 1: 64-66.
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MEHRA, P. N. *and* KHANNA, A. L.
1950 Embryology of *Sewardiella tuberifera*. *Bot. Gaz*. 112: 31-42.
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MEHRA, P. N. *and* KHOSHOO, T. N.
1947 Karyotype of some conifers. (Abstr.). *Proc. 34th Indian Sci. Cong*. iii: 167.
1346

1948 Chromosome number and effect of Colchicine on chromosomes of *Colchicum luteum* Baker. (Letter). *Curr. Sci*. 17(8): 242-243.
It has been found that the spindle of *Colchicum luteum* is not susceptible to Colchicine. It has developed immunity towards Colchicine owing to its faculty by producing the drug in its tissues.
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1955 Cytology of Conifers. *Sci. & Cult*. 21: 46.
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MEHRA, P. N. *and* LOYAL, D. S.

1956 Some observations on the cytology and anatomy of *Hypodematium crenatum* (Forsk.) Khun. *Curr. Sci.* 25(11): 363-364.
One of the Leptosporangiate ferns occurring throughout India. Material for study was collected from Chakrata near Dehra Dun.
1349

MEHRA, P. N. *and* MALHOTRA, R. E.

1947 Stages in the embryology of *Cupressus sempervirens* Linn., with particular reference to the occurrence of multiple male cells in the male gametophyte. *Proc. nat. Acad. Sci. India.* 17(4): 129-153.
The authors noticed that the archesporium was deep seated and the functional megaspore mother cell numbered one or two Free nuclear division gives rise to nearly 6,000 nuclei. The female gametophyte very rarely matures and ovules do not set seeds.
1350

MEHRA, P. N. *and* MEHRA, H. L.

1939 Life history of *Stephensoniella brevipedunculata* Kash. *Proc. Indian Acad. Sci.* B. 9(5): 287-315.
The material of the liverwort discussed was collected from Mussoorie and Kulu in 1935. Describes the life history of this interesting monotypic Indian liverwort. It is rare and occurs in a few localities, such as Kulu, Simla, Mussoorie, in the outer ranges of N. W. Himalayas between 6000-7000 ft.
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MEHRA, P. N. *and* RAI, K. S.

1957 Cytology of *Gnetum ula* Brongn. *J. Genet.* 55(2): 394-396.
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MEHRA, P. N. *and* RAJESWAR KUMAR

1957 Embryogeny of *Gnetum ula* Brongn. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 235-236.
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MEHRA, P. N *and* SINGH, HARI PAL

1955 Cytology of *Cyatheaceae, Woodsiaceae* and *Marattiaceae. Curr. Sci.* 24(12): 425.
In all the species of *Cyatheaceae* investigated numbers of chromosomes were 69.
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1955 Observations on the anatomy of *Alsophila glabra* Hook. *Sci. & Cult.* 21(5): 273.
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MEHRA, P. N *and* SIRCAR, M. K

1949 The structure and development of the female and male gametophyte in *Cupressus funebris. Proc. nat. Inst. Sci. India.* 15: 15-23.
Records the various developmental details in which the species differs from the other species investigated.
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MEHRA, P. N. *and* SOBTI, S. N.

1954 Cytology of Indian medicinal plants; the *Solanaceous* drugs. *Bull. bot. Soc. Bengal.* 8: 221-227.
Chromosome numbers of *Atropa belladonna, A. acuminata, Hyocyamus niger, H. pusillus, H. muticus* and *Physochlaina praealta* have been determined.
1357

1955 Cytology of Indian medicinal plants; *Aconites, Valerians* and *Senna. Res. Bull. Punjab Univ.* 80: 159-171.

Chromosome counts of six Indian species of *Aconitum* were n=8 and 16. *Valeriana hardwickii* showed n=28 while in 2 other *Valerians*, it was 16 and 32 respectively. The *Senna* plant had n=13.

1358

MEHRA, P. N. *and* VASHIST, B. R.

1950 Embryology of *Petalophyllum indicum* Kash. and a new suggestion of the evolution of thalloid habit from foliose forms. *Bryologist*. 53: 89.
The liverwort appears to be restricted in its distribution, being confined to the banks of the River Ravi in Lahore. It is also reported from the banks of the River Beas. Gives details of the structure of the gametophyte, development of sex organs, segmentation of the embryo and sporophyte. The relationship of *Sewardiella*, *Fossombronia* and *Petalophyllum* has been discussed.

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MEHRA, P. N. *and* VERMA, S. C.

1957 Cytomorphological studies in *Athyrium* Roth: cytology. (Abstr.). *Proc. 40th Indian Sci. Cong.* iii: 250-251.

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1957 The cytology of some *Athyrium* sps. from northern India. *Ann. Bot. Lond.* (n.s.). 21(83): 455-459.

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1957 Cytology of *Lycopodium*. *Curr. Sci.* 26(2): 55-56.
Cytological observations on four species of the genus are recorded. *L. clavatum*, *L. setaceum* and *L. lucidulum* have been studied.

1362

MEHTA, A. S.

1956 Some unreported ferns of Behar. *J. Indian bot. Soc.* 35(2): 165-166.
Describes *Dennsteadtia appendiculata* (Wall. ex Hook.) J. Sm., *Athyrium drepanopterum*, *Athyrium macrocarpum* (Bl.) Bedd. and *Drynaria propinqua* (Wall. ex Mett.) J. Sm. These were collected from Parasnath Hill and Purnia.

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1956 Ferns of Parasnath, Behar. *J. Indian bot. Soc.* 35(3): 241-244.
Fourteen fern species have been described.

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MEHTA, K. C.

1950 Control of rust epidemics of wheat in India; a national emergency. *Sci. & Cult.* 15(7): 263-270.
Text of the eleventh Acharya Jagadish Chandra Bose memorial lecture delivered by K. C. Mehta of Agra College on the occasion of the 32nd anniversary of the foundation of the Bose Research Institute, Calcutta.

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MEHTA, K. R.

1934 The root system in *Asphodelus tenuifolius* Cavan. *J. Indian bot. Soc.* 13: 271-275.

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1943 Palaeobotany in India: progress report for 1942. *J. Indian bot. Soc.* 22: 171.

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1944 Palaeobotany in India; progress report for 1943. *Proc. nat. Acad. Sci India*. 14: 67.

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MEHTA, K. R.—*contd.*

1944 Microfossils from a carbonaceous shale from the Pali beds of the south Rewa Gondwana basin. *Proc. nat. Acad. Sci. India.* 14(4 & 5): 125-141.
1369

1952 *Spiroxylon indicum* sp. nov., a taxinean wood from the lower Gondwanas of India. *Palaeobotanist.* 1: 330-334.
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1954 A fossil member of the *Chroococcales* from the lower Gondwanas of India. *Palaeobotanist.* 3: 38-39.
1371

MEHTA, K. R. *and* SUD, J. D.

1953 On some *Ginkgoalean* leaf impressions from the Rajmahal Hills. *Palaeobotanist.* 2: 51-54.
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MEHTA, KARAMCHAND

1918 Some observations and experiments on the rust of *Launaea asplenifolia* Dc. *J. Asiat. Soc. Bengal.* 14: 247.
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MEHTA, R. K. *and* SWAMINATHAN, M. S.

1957 Studies on induced polyploid in forage crops; survey of previous work. *Indian J. Genet.* 17: 27-37.
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MEIRHOFER, H.

1902 Beitrage zur Anatomie und Entwicklungsgeschichte der *Utricularia* Blasen. *Flora.* 90: 84-113.
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MEISSNER, C. F.

1826 Monographie generis *Polygoni* prodromus. Geneva. iv, 117p.
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1857 *Polygonaceae. Dc. Prodr. Syst. Nat.* 14: 1-186.
A monograph.
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1857 *Proteaceae. DC. Prodr. Syst. Nat.* 14: 209-402.
A monograph.
1378

1857 *Thymeleaceae. DC. Prodr. Syst. Nat.* 14: 493-605.
A monograph.
1379

1864 *Lauraceae. DC. Prodr. Syst. Nat.* 15(1): 1-260.
A monograph.
1380

1864 *Hernandiaceae. DC. Prodr. Syst. Nat.* 15(1): 261-265.
A monograph.
1381

1866 Notice sur les *Polygonies*, les *Thymedies* et les *Laurinees* recoltes pendant les annees 1855-57 dans la haute Asie, par M.M. de Scklagintwait. *Ann. Sci. nat. Bot.* 6: 334-360.
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MELOCHIOR, H.

1939 Neue Arten von Nanga Parbat leg. C. Troll. *Notizbl. bot. Gart. Berl.* 124: 342-355.
Describes new species of plants collected by C. Troll from Nanga Parbat of the Kashmir-Gilgit area during the German-Himalayan expedition of 1937. New species are—*Colpodium trolii* Pilger, *Oryzopsis brachyclada* Pilger, *O. microcarpa* Pilger, *O. gracilis* (Mez.) Pilger (=*Piptatherum gracile* Mez.).
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MELVILLE, R.

1936-37 A list of true and false Mahoganies. *Kew Bull.* [ ]: 193-210, 274-276.
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1952 *Trianthema pentandra* L. and some related species. *Kew Bull.* 2: 261-269.
The hitherto regarded Indian plant namely, *Trianthema pentandra* L. is truly an African plant and the Indian plant should therefore receive the earliest name given to it by Buchanan Hamilton as *Trianthema govindia* Buch. Ham. ex. G. Don.
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1958 Notes on *Alternanthera*. *Kew Bull* 1: 171-175.
Melville has shown that the correct name should be *Alternanthera sessilis* (L.) Dc. and this is the type species of the genus *Alternanthera*.
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MENDES, A. J T.
1941 Cytological observations on *Coffea;* embryo and endosperm development in *Coffea arabica* L. *Amer. J. Bot.* 28: 784-789.
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MENDIS, A.
1854 List of the principal timber trees of Ceylon. Colombo.
1388

1881 Timber trees of Ceylon with notes on them by W. Ferguson. Colombo.
1389

MENDIS, S. A.
1950 List of principal timber trees in Ceylon. *Trop. Agriculturist.* 106: 162-177.
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MENON, M.A.S.
1945 Observations on the seasonal distribution of the plankton of the Trivandrum coast. *Proc. Indian Acad. Sci. B.* 22(2): 31-62.
An account of the general quantitative and qualitative study of the plankton of the Trivandrum coast during the years July 1938 to June 1940 with intensity charts and tables. 273 plankton samples, collected twice a week during the two years, have been examined. Their seasonal variations and factors governing their distribution are described.
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MENON, S. K.
1931 A preliminary account of the Madras plankton. *Rec. Indian Mus.* 33: 489-516.
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MENON, SAROJINI
1956 Preliminary ecological survery of the algal flora of Annamalainagar. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 211.
There is a very large amount of blue green algae, both subaerial and aquatic. 32 genera belonging to the families *Chroococcaceae, Oscillatoriaceae, Nostocaceae, Rivulariaceae* and *Scytonemataceae* have been observed so far. Representatives of the *Chlorophyceae* are comparatively smaller.
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1957 Studies in the various modes of perennation of blue-green algae of Annamalainagar. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 215.
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MENSINKAI, S. W.
1939 The conception of the satellite and the nucleolus and the behaviour of these bodies in cell division. *Ann. Bot. Lond.* 3: 763-794.
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MERL, E. M.

1915 Beitrage zur Kenntnis der *Utricularien* und *Gentianeen*. *Flora*. 108: 127-200.
1396

1921 Biologische Studien uber die *Utricularia* Blase. *Flora*. 115: 59-74.
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MERRILL, ELMER D.

1913 On the identity of *Evodia triphylla*. *Philipp. J. Sci.* 7: 373.
1398

1915 Studies on the Philippine *Anonaceae*. *Philipp. J. Sci.* 10: 227, 264.
Contains much useful information on Indian species and on the nomenclature of Indian plants.
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1915 On the application of the generic name *Nauclea* of Linnaeus. *J. Wash. Acad. Sci.* 5: 530-542.
1400

1916 New or interesting Philippine *Vitaceae*. *Philipp. J. Sci.* 11: 125.
1401

1916 Korthalsella, bifaria and pseudaxis. *Bot. Mag. Tokyo*. 30: 60-68.
1402

1919 On the application of the generic name of the *Melodorum* of Loureiro. *Philipp. J. Sci.* 15: 125.
1403

1921 A review of the new species of plants proposed by N. L. Burmann, in his 'Flora Indica'. *Philipp. J. Sci.* 19: 329-388.
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MERRILL, ELMER D. *and* PERRY, G. M.

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MERRILL, ELMER D. *and* PERRY, L. M.

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MERRILL, ELMER D. *and* WALKER, E. H. *—contd.*

and papers on algae, fungi, lichens, vascular cryptogams, pteridophyta, spermatophyta. They have excluded papers devoted entirely to physiology, morphology, cytology and genetics and those without distinct taxonomic, geographic or economic significance. An appendix (p. 551-592) gives "older oriental work" reference lists of oriental authors. The index is in three parts: general index of subjects, geographic index and systematic index (following Engle's *Syllabus*).

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1836 Beitrage zur Kenntnis de *Azollen* (*Azolla pinnata*) *Nova Acta physicomed. Acad Leop.* 18: 507-524.

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MUNDKUR, B. B.
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This parasite was detected on *Selaginella chrysocaulos*. The hyphae present only in the xylem region, showed the pieces and binucleate cells and produced black perithecia on the drooping branch tips.

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1951 Certain new members of the volvocales from Indian soils *Phytomorph*. 1: 58-64.
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1951 The origin of mango. *Indian J. Genet.* 11: 49.

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1951 Pollen analysis of some species of *Mangifera* in relation to fruit-set and taxonomy. *J. Indian bot. Soc.* 30: 49.

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1952 Cytology of *Adhatoda vasica* Nees. (Letter). *Curr. Sci.* 21(3): 77.
The somatic plants contain 34 chromosomes. Haploid number is 17.

1701

1952 Meiosis in *Azadirachta indica.* (Letter). *Curr. Sci.* 21(10): 287.
The somatic chromosomes are 2n = 28.

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MUKHERJI, SUNIL K.—*contd.*

1952 Abnormal microsporocytes in *Caesalpinia pulcherrima* Sw. (Letter). *Curr. Sci.* 21(10): 290.

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1953 Vegetation of the Delhi ridge. *J. Bombay nat. Hist. Soc.* 51(1 & 2): 439-465.

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1953 The mango: its botany, cultivation, uses and future improvement. *Econ. Bot.* 7: 130-162.

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1953 Origin, distribution and phylogenetic affinity of the species of *Mangifera* Linn. *J. Linn. Soc.* 55: 65-83.

1706

1954 Revision of the genus *Saccharum* Linn. *Bull. bot. Soc. Bengal.* 8(1 & 2): 143-148.
Describes 5 species of *Saccharum*, namely *S. officinarum, S. spontaneum, S. sinensis, S. barberi* and *S. robustum* with special reference to their chromosome numbers.

1707

1955 Origin and distribution of *Saccharum* L. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 236-237.
The origin is held to be in the Indo-Burma-Chinese region wherefrom it has spread elsewhere.

1708

1957 Origin and distribution of *Saccharum. Bot. Gaz.* 119(1): 55-61.
An attempt to work out the origin of the genus *Saccharum* from phytogeographical data corroborated by morphological, cytological and breeding evidences. Suggests that *Saccharum complex* originated in the Indo-Burma-Chinese region and spread to adjoining regions.

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MUKHERJI, SUSIL KUMAR

1938 A decade of new *Labiatae* from India, Burma and Tibet. *Notes R. bot. Gdn. Edinb.* 19: 303-308.
Describes *Acrocephalus palniensis, A. verbenaefolius* Watt ex Mukherji, *Dysophylla kachinensis, Salvia lacei, Scutellaria assamica, Gomphostemma lacei, Teucrium burmanicum, T. shanicum, Phlomis younghusbandii* and *P. burmanica.*

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1940 A revision of the *Labiatae* of the Indian Empire. *Rec. bot. Surv. India.* 14(1): 1-228, i-viii.
Thesis for the Ph.D. Degree of the University of Edinburgh. Describes 425 species belonging to 69 genera. Discusses the distribution of the species in India and the surrounding regions.

1711

1942 The genus *Chelonopsis* Miq. recorded for the first time from India. *J. Indian bot. Soc.* 21(5 & 6): 313-317.
Describes *Chelonopsis albiflora* Pax & Hoffm. var. *cashmirica* var. nov. 12 species are noticed.

1712

1945 A revision of the Indo-Burmese species of *Lindernia* Allioni. *J. Indian bot. Soc.* 24(3): 127-134.
The author, following Pennell who has sunk *Vandellia, Ilysanthes* and *Bonnaya* into *Lindernia,* has reduced the

MUKHERJI, SUSIL K.—*contd.*

first three genera to the rank of synonyms under *Lindernia*. The genus *Lindernia* is redescribed so as to accomodate the other three genera. Has given a key to the species.

1713

1947 A botanical tour in Chota Nagpur. *Bull. bot. Soc. Bengal.* 1: 27-28.

1714

1949 A new species of *Dalechampia* Plum. ex Linn. from Burma with a note on the status of *D. kurzii* Hk. f. *Bull. bot. Soc. Bengal.* 3(1): 8-10.
Dalechampia burmanica Mukerjee sp. nov. from Insein District, Burma, has been described. Incidentally, Mukherjee has cleared the systematic position of *D. kurzii* Hk. f. by following the clue left by G. King on one of the sheets.

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1952 The genus *Moghania* St. Hill. in India and Burma. *Bull. bot. Soc. Bengal.* 6(1): 1-24.
Following Hu Lin Li, who has reduced *Flemingia* Roxb. to a synonym of *Moghania* St. Hill, the author has likewise revised the species of *Flemingia* Roxb., placing them all under *Moghania* St. Hill. He has described 26 species of *Moghania*. He has made a number of new combinations under *Moghania* and a new species *M. gracilis* Mukerjee.

1716

1953 An enumeration of the Orchids of Ukhrul, Manipur (Assam). *Notes R. bot. Gdn. Edinb.* 21(3): 149-154.
The Orchids enumerated in this paper were collected from the hill round about Ukhrul near Manipur between March and November 1948 for the Botanical Survey of India along with Capt. F. Kingdon-Ward, who was collecting seeds and bulbs on behalf of the Botanic Garden, New York. 73 species of Orchids were collected, of which many were sent to the Lloyd Botanic Garden, Darjeeling for cultivation there.

1717

1953 A new species of *Polygala* from Burma and a variety of *P. hyalina* Wall. ex Hassk. *J. Bombay nat. Hist. Soc.* 51(1 & 2): 524-525.
Describes *P. carnosa* Mukherjee sp. nov. and *P. hyalina* Wall. ex Hassk. var. *pusila* Mukherjee.

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1954 An epitome of the Orchids of Assam. *Bull. bot. Soc. Bengal.* 8: 168-169.
96 genera of Orchids with the numerical strength in each genus are listed.

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1954 Indian and Burmese *Polygala*: section, *Chamaebuxus*. *Madras State Herbarium Centenary Volume*. p. 48-53.

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1955 A new *Polygala* from south India. *J. Bombay nat. Hist. Soc.* 53(1): 54-56.
Describes *Polygala ramaswamiana* sp. nov. and forma *devicolamensis* f. nov. and var. *palmiensis* var. nov.

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1956 Some new records of plants from the Parasnath Hill. *J. Indian bot. Soc.* 35(3): 245-247.

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1883 Handbook of Indian products (art—manufactures and raw materials). Calcutta, Printed at the Star Press. ii, 175, viip.

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1883-84 Catalogue of new products collected for the Calcutta International Exhibition 1883-84. Calcutta, Supdt., Govt. Ptg. x, 144p.

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MULAY, B. N.

1938 Development of the female prothallium in *Azolla pinnata* R. Br. *J. Univ. Bombay.* 6(5): 118-124.

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1942 The study of the female gametophyte and a trophophyte in *Ephedra foliata* Boiss. *J. Univ. Bombay.* (n.s.). 10(3): 56-69.

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MULAY, B. N. *and* BARANI, G. D.

1944 A contribution to the floral organogeny, structure and the development of the micro and the megaspores with their gametophytes and embryology in *Aristolochia bracteata. Proc. Indian Acad. Sci.* B. 14: 1.
Belongs to monosporic 8-nucleate *Polygonum* type.

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MULAY, B. N. *and* CHUDA, R. S.

1958 Root structure of some desert grasses. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 287.

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1952 Presence of velamen in the earth roots of some species of *Asparagus. Univ. Rajasthan Stud.* 1: 58-73.

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MULAY, B. N., DESHPANDE, B. D. *and* WILLIAMS, H. B.

1958 Study of velamen in some epiphytic and terrestrial Orchids. *J. Indian bot. Soc.* 37(1): 123-127.

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MULAY, B. N. *and* KAHATE, SINDHU

1957 Morphology and number of chromosomes in certain *Liliaceae.* (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 250.
Chromosome numbers and their morphology were studied in *Chlorophytum sternbergiamum* Roxb., *C. orchidastrum* Lindl., *Aspidistra lurida* Baker, *Lilium tuberosum* and *Ruscus hypophyllum* L.

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MULAY, B. N *and* KHUBCHANDANI

1944 A study of the staminate plants of *Ephedra foliata* Boiss.
Thesis for M.Sc. degree of Bombay University.

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1945 A study of the female gametophyte of *Ephedra foliata* Boiss. (Abstr.). *Proc. 32nd Indian Sci. Cong.* iii: 80.

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MULAY, B. N., NAIR, N. C. *and* SASTRY, M. S. R. K.

1953 Contribution to the embryology of *Vitaceae;* male and female gametophytes of *Vitis pedata* (W. & A.). *Proc. Rajasthan Acad. Sci.* 4: 17-28.

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MULAY, B. N *and* PANNIKAR, T. K. B.

1956 On the structure and development of velamen in the roots of some terrestrial Orchids. *Proc. Rajasthan Acad. Sci.* 6: 31-48.

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MULAY, B. N. *and* PRASAD, M. K.
1956 On the structure and development of velamen in the roots of some terrestrial Orchids. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 246.
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MULAY, B. N., RAMANATHAN, R. *and* POURAMA
1955 Cytology of the grass *Panicum turgidum* Forsk. *Proc. Rajasthan Acad. Sci.* 5: 36-37.
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MULAY, B. N. *and* RATNAM, B. V.
1950 Study of the vegetation round about Pillani and its neighbourhood. *Proc. 37th Indian Sci. Cong.* iii: 64-65.
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MULAY, B. N. *and* SARIN, Y. K.
1956 On the histological structure of *Satyrium nepalense* Don and other terrestrial Orchids. *Proc. 43rd Indian Sci. Cong.* iii: 246.
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MULAY, B. N. *and* SHARMA, M. N.
1954 Studies on the embryology of *Celosia cristata*. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 140.
Polygonum type of embryosac development occurs in this species.
1740

MULLAN, D. P.
1931 Observations in the water storing devices in the leaves of some Indian halophytes. *J. Indian bot. Soc.* 10: 126.
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1931 On the occurrence of glandular hairs (Salt glands) on the leaves of some Indian halophytes. *J. Indian bot. Soc.* 10: 184.
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1932 Observations on the biology and physiological anatomy of some Indian halophytes. *J. Indian bot. Soc.* 12: 165, 235.
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1936 On the anatomy of *Ipomoea aquatica* Forsk. with special reference to the development of aerenchyma as a result of injury. *J. Indian bot. Soc.* 15: 39-50.
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1936 On the seed structure and germination of *Acanthus ilicifolius* L. *J. Indian bot. Soc.* 15: 143.
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1940 The anatomy of *Spinifex squarrosus* L. with special reference to the morphology of the leaf blade. *J. Indian bot. Soc.* 18(4-6): 241-246.
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1940 The root structure of *Chlorophytum tuberosum* Baker. *J. Indian bot. Soc.* 19: 235.
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1940 On the alterations in the tissues of *Melochia corchorifolia* L. and *Corchorus capsularis* L. on a change of environment. *J. Bombay nat. Hist. Soc.* 41(9): 877-880.
Studies the developmental changes in the tissues.
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1945 The biology and anatomy of *Scirpus grossus* L. *J. Bombay nat. Hist. Soc.* 45: 402.
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MULLER, C. H. A.
1940 A revision of the genus *Lycopersicon*. *Misc. Publ. U. S. Dept. Agric.* [ ]: 328-329.
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1930 Notes on *Sarcococca*. *Gdnrs' Chron.* (S. 3). 87: 285-287.
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1940 *Berberis chrysosphaera*: a new species from southern Tibet. *Kew Bull.* 2: 77-79.
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1938 Fungi of India, supplement 1. Delhi, Imperial Council of Agricultural Research. (Scientific monograph no. 12).
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1939 A contribution towards a knowledge of Indian *Ustilaginales*. *Trans. Brit. mycol. Soc.* 23: 86-121.
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1939 Taxonomy of the sugarcane smuts. *Kew Bull.* 10: 527-533.
The confusion surrounding the nomenclature of the smuts attacking species of genera *Saccharum* and *Erianthus* has been cleared by the author. 73 collections from different parts of India and the world were examined. *Ustilago scitaminea* Syd. var. *sacchari-barberi* Mundkur var. nov., and var. *sacchari-officinarum* Mundkur var. nov. have been described.
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1940 A second contribution towards a knowledge of Indian *Ustilaginales;* fragments 26-50. *Trans. Brit. mycol. Soc.* 24: 312-336.
Contribution to the taxonomy of Indian smuts.
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1940 Some fungi from Afghanistan. *Kew Bull.* 7: 285-288.
The author visited the northern, eastern and southern part of Afghanistan. Conditions were found unfavourable to the growth of fungi. Only a few fungi were collected. They are housed in the cryptogamic herbarium at the Imperial Council of Agricultural Research, India, Delhi.
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1941 Notes on *Saccharum* and *Erianthus* smuts. *Kew Bull.* 3: 209-217.
Sphacelotheca erianthi (Sydow) Mundkur comb. nov.; *Sorosporium indicum* Munkdur are new combination and species.
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1942 Taxonomic studies of Indian smuts. *150th Anniversery vol. Ann. R. bot. Gdn. Calcutta.* p. 221-225.
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1943 Studies in Indian cereal smuts; the smuts on sawan (*Echinochloa frumentacea*). *Indian J. agric. Sci.* 13: 631-633.
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1944 Fungi of the north-western Himalayas (*Ustilaginales*). *Mycologia.* 36: 286-293.
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1944 Some rare and new smuts from India. *Indian J. agric. Sci* 14: 49-52.
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1944 *Tilletia tumefaciens*, a remarkable gall forming smut from India. *Phytopath.* 34: 143-146.
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1945 Studies in Indian cereal smuts; nomenclature of Indian smut fungi and probable modes of their transmission. *Indian J. agric. Sci.* 15: 108-110.
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1948 Sex organs in *Phytophthora himalayensis* Dast. *Curr. Sci.* 17: 26.
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1949 Morphology and cytology of the development of the sex organs of *Phytophthora himalyensis* Dastur. *Bot. Gaz.* 110: 475-486.
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1951 Study of systematic mycology in India. *Proc. 38th Indian Sci. Cong.* ii: 154-168. Presidential address.
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1946 Revisions of and additions to Indian fungi. London, Imperial Mycological Institute. 11p. (Mycological papers no. 13).
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1942 Indian and Burman species of *Pestalotia* and *Monochaetia*. *Mycologia*. 34: 308-317.
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1943 *Dasturella*—a new genus of *Uredinales*. *Mycologia*. 35: 201-206.
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1943 *Catenulospora*, a new genus of rusts: *Catenulospora flacourtiae* Mundkur and Tirumalachar. *Ann. Bot. Lond.* (n.s.). 7(27): 213-220.
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1945 Two new genera of smuts of *Bignoniaceae*: *Mehtamyces* gen. nov., *M. stereospermi* Mundkur comb. nov.; *Santapauella* gen. nov., *S. heterophragmae* sp. nov. *Mycologia*. 37(5): 619-628.
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1952 *Ustilaginales* of India. London, Commonwealth Mycological Institute. 84p.
This book is the result of a critical study of Indian smuts, undertaken by the senior author in 1934, involving comparison of types in foreign herbaria. Many new species of smuts were collected by the junior author in south India. There are 205 species, 4 varieties, recorded for India, belonging to 21 genera as against 94 species in 13 genera in Butler and Bisby's *Fungi of India*.
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Describes the preparation of medicines from drugs and their application in diseases. In the Tamil language.
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1844 Hortus Agrensis; or, Catalogue of all plants found wild or cultivated in the neighbourhood of Agra and surrounding country. Agra, Orphan Press. 36p.
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1861 On the identification of the grasses of Linnaeus's herbarium now in possession of the Linnean Society of London. *J. Linn. Soc.* 6: 35-55.
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1870 Monograph of the *Bambuseae*. *Trans. Linn. Soc. Lond.* 26: 1-159.
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1879 Himalayan primroses. *Garden.* 8.
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1933 Studies on meiosis of diploid and triploid *Solanum tuberosum* L. *Hereditas.* 17(2): 223-245.
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1936 The evolutionary significance of autopolyploidy. *Hereditas.* 21: 263.
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1925 Monographie der gattung *Celsia*. *Acta Univ. lund.* (n.s.). 22(1): 1-239.
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1936 Nachtrage zur Monographie der Gattung *Verbascum*. *Lunds Univ. Arskr.* 32: 45.
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MURBECK, S. V.

1903 Uber die Embryologie von *Ruppia rostellata* Koch. *K. Svenska Vetensk. Akad. Handl.* 36.
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MURDIA, M. S.

1938 Cytological studies of certain members of the family *Saprolegniaceae*. *J. Indian bot. Soc.* 17: 301-310.
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MURRAY, G.

1887 On a new species of *Rhipilia* (*R. andersoni*) from Mergui archipelago and on two new species of *Lentinus*, one of them growing on a large *Sclerotium*. *Trans. Linn. Soc. Lond.* 10: 2, 225-232.
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1887 Catalogue of Ceylon algae in the herbarium of the British Museum. *Ann. Mag. nat. Hist.* [ ]: 21-44.
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MURRAY, HUGH

1820 Historical account of discoveries and travels in Asia, from the earliest ages to the present time. Edinburgh, A. Constable & Co. 3v.
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1832 Historical and descriptive account of British India from the most remote period to the present time. New York, J. & J. Harper. 3v. Subsequent editions published in 1833-36, 1840-42.
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1881 The plants and drugs of Sind, being a systematic account with descriptions of indigenous flora and notices of the value and uses of their products in commerce, medicine and arts. Bombay, Education Society's Press. xxxv, 219p.
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MURTHY, M. H S.
1953 The androecium of *Taverniera nummularia* Dc. *J. Bombay nat. Hist. Soc.* 51(4): 962.
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1957 The vegetation of Bhavnagar and its biological spectrum. *Vidya.* 1(2): 42-46.
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1958 The diatom *Asterionella* in the Krishna Estuary region. *Nature.* 18: 360-366.
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1936 Gunapatam (Mooligai vahuppu). 20, 432p.
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1906 Untersuchungen uber die Frucht des Hanfes (*Cannabis sativa* L.). *Jber, Ver. angew, Bot.* [ ]: 76-122.
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1954 Megasporogenesis and megasporophyte development in *Combretum ovalifolium* Roxb. *Curr. Sci.* 22(11): 370.
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1954 Contribution to the floral morphology of *Terminalia catappa* L. *Curr. Sci.* 22(12): 408.
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1955 Floral morphology of *Terminalia bellerica* Roxb. *Curr. Sci.* 24(3): 89-90.
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1951 A note on the embryology of *Dioscorea oppositifolia* L. (Letter). *Curr. Sci.* 20(6): 162-163.
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1953 Inverted polarity in the embryo-sac of *Saurauja napaulensis* Dc. *Curr. Sci.* 22(9): 282
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A sketch of the physiography, climate, soil and biotic factors, influencing the vegetation of Rajasthan, followed by a selection of plants suitable for afforestation in this part of India.

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1956 Vascular anatomy of the flower of *Myristica malabarica* Lamk. *Phytomorph.* 6(2): 127-134.

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1957 Floral morphology and embryology of *Samadera indica. Bot. Gaz.* 119(2): 104-115.

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1941 Cytological studies on Indian pulses; the somatic chromosomes and the prochromosomes of *Cajanus*. *Proc. nat. Acad. Sci. India.* 11(2): 67-73.
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NAITHANI, S. P. *and* CHANDOLA, R. P.

1954 Cytology of millets; genus *Eleusine*. *Proc. nat. Acad. Sci. India*. 24: 177-182.
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NAKAI, T.

1925 Two new species of *Bambusaceae*, with special remarks on the related genera in eastern Asia. *J. Arnold. Arbor.* 6: 145-153.
Describes *Indocalamus* gen. nov.: *I. floribundus, I. walkerianus, I. wightianus* and *I. wightianus* var. *hispida; Semi-arundinaria pantlingii* (=*A. pantlingii*); *Chimonobambusa callosa* (*A. callosa* Munro);*C. densifolia; C. falcata; C. griffithiana; C. hookeriana; C. intermedia; C. khasiana; C. polystachya* (=*Arundinaria* species of FBI); *Sinobambusa elegans* (=*Arundinaria elegans*). A key to the genera is also given.
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NAKAMORI, EIJETI

1932 On the appearance of the triploid plant of the rice; *Oryza sativa* L. *Proc. imp. Acad. Japan.* 8(10): 529.
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NAKAMURA, MIYAWO

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1932 Daily changes in the occurrence of the imperfect pollen grains in the *Impatiens balsamina* L. *J. Soc. trop. Agric Taiwan*. 4(2): 149-160.
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NAKAMURA, MIYAWO—*contd.*

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1930 On the chromosomes of the Persimmon, *Diospyros kaki*. *Trans. Tottori Soc. agric. Sci.* 2(1): 145-148.
In the Japanese language.
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NANDA, K. K. *and* CHINOY, J. J.

1958 Lateral bud development in 'pearl millet'—*Pennisetum typhoides* Hubbard, in relation to its flowering. *Curr. Sci.* 27(4): 141-42.
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NANDI, H. K.

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1936 The chromosome morphology, secondary association and origin of cultivated rice. *J. Genet.* 33: 315-336.
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1937 Studies in the *Podostemaceae* of the Khasi Hills, Assam. *J. Dept. Sci. Calcutta Univ.* (n.s.). 1(1): 25-52.
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1851 On the nettle grasses of Assam and their valuable properties. *J. agri.-hort. Soc. India.* 8: 88.
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NANNFELDT, J. A.

1924 Revisions der Verwardts Haftkreises von *Centella asiatica* (L.) Urban. *Svensk bot. Tidskr.* 18: 397-426.
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NARANG, NIRMAL

1953 The life history of *Stackhousia linariaefolia* A. Cunn., with a discussion of its systematic position. *Phytomorph.* 3: 485-493.
1874

1954 Contributions to the life-history of *Stackhousia linariaefolia* A. Cunn. (Syn. *S. monogyna* Labill), with a discussion on its systematic position. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 141.

1875

1955 Contribution to the life history of *Ephedra campulopoda;* male and female gametophytes. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 223-224.

1876

1955 Contribution to the life history of *Ephedra campulopoda;* fertilization and embryogeny. (Abstr.). *Proc. 42nd Indian Sci.* Cong. iii: 224.

1877

NARASIMHACHAR, S. G.

1936 Megasporogenesis and embryosac formation in two species of *Meliaceae. Curr. Sci.* 5(5): 298-299.
Morphology of *Cipadessa fruticosa* and *Melia azaderach* has been worked out and recorded.

1878

1948 A contribution to the morphology of *Acacia farnesiana* L. *Proc. Indian Acad. Sci.* B. 28(4): 144-149.

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1949 A contribution to the embryology of *Drosera burmanni* Vahl. *Proc. Indian Acad. Sci.* B. 29(3): 98-104.

1880

1951 An embryological study of *Mimosa pudica* L. *Proc. Indian Acad. Sci.* B. 33(4): 192-198.
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1881

1951 A contribution to the embryology of *Drosera indica* L. *Proc. Indian Acad. Sci.* B. 33: 290-295.
The primary archesporial cell directly functions as the megaspore mother cell. Megasporogenesis proceeds normally and the embryosac conforms to the *Polygonum* type. Antipodals are formed as definite cells and persist for sometime. At the mature embryosac stage, the nucleus becomes characteristically differentiated, development of the embryo has been followed in detail and broadly corresponds to the *Solanad* type of Johansen (1945).

1882

NARASIMHA MURTHY, S.

1942 Endosperm formation in *Anisomeles* sp. (Letter). *Curr. Sci.* 11(7): 284-285.
A short account of the origin and development of endosperm in *Anisomeles malabarica* and *A. indica.*

1883

NARASIMHA MURTHY, S. K.

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1933 Studies on the life history of *Limnophyton obtusifolium* Miq. *Curr. Sci.* 2(1): 53-54.

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1935 The life-history of *Ottelia alismoides* Pers. *Proc. Indian Acad. Sci.* B. 2(1): 59-66.

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NARASIMHA MURTHY, S. K.—*contd.*

1940 Studies in the *Labiateae;* embryology of *Ocimum sanctum* L., *O. canum* Sims. and *O. basilicum* Bth. *J. Mysore Univ.* B. 1(10): 97-104.
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1941 The development of the endosperm in *Leucas aspera* Spreng. (Letter). *Curr. Sci.* 10(5): 257-259.
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1941 Development of glandular hairs in *Orthosiphon stamineus* Bth. (Letter). *Curr. Sci.* 10(12): 534-535.
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1941 Morphological studies in the *Sapotaceae*, embryology of *Bassia latifolia* Roxb. and related genera. *J. Mysore Univ.* B. 2(10): 67-80.
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NARASIMHAN, M. J.

1918 A preliminary study of the root nodules of *Casuarina. Indian For.* 44: 265.
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1932 The *Phalloideae* of Mysore. *J. Indian bot. Soc.* 10: 248.
1892

1933 Cytological investigation on the spike disease of sandal, *Santalum album. Phytopath.* 23: 191-202.
1893

NARASIMHAN, M. J. *and* THIRUMALACHAR, M. J.

1943 Preliminary note on the perfect stage of *Ephelis oryzae* Syd. (*Balansia oryzae* Syd.) comb. nov. *Curr. Sci.* 12: 276-277.
1894

NARASIMHA RAO, V. L.

1948 Pharmacognosy of *Carum roxburghianum* Bth. *Indian Pharm.* 4: 14.
1895

NARASIMHASWAMY, R. L.

1937 A short note on staminodes in *Elettaria cardamomum* Maton. *Curr. Sci.* 5: 427.
1896

1940 Varieties of cardamom in cultivation in Mysore, *Elettaria cardamomum* Maton vars. *laxiflora, mysorensis* and *major. Indian J. agric. Sci.* 10(6): 1030-1032.
1897

NARAYAN, K N.

1951 Cytogenetic studies of apomixis in *Pennisetum.* Thesis for the Ph.D. Degree of the University of California, 1951.
1898

1954 Mitosis in the pollen mother cells of *Pennisetum ramosum. Curr. Sci.* 22(12): 407-408.
1899

1955 Cytogenetic studies of apomixis in *Pennisetum; P. latifolium* Spr. *J. Mysore Univ.* B. 14(4): 33-42.
1900

1955 Apomixis in angiosperms, classification and terminology. *J. Mysore Univ.* B. 14(5): 43-47.
1901

1955 Cytogenetic studies of apomixis in *Pennisetum; P. clandestinum* Hochst. *Proc. Indian Acad. Sci.* B. 41(5): 196-208.
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1958 Cytology and taxonomy. *Mem Indian bot. Soc.* 1: 63-70.
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NARAYANA, G. V.

1935 Chromosome numbers in *Phoenix farinifera* Roxb. *Curr. Sci.* 4(8): 589.
1904

1937 On the nectar secretion in the coconut flowers (*Cocos nucifera* Linn.). *Proc. Indian Acad. Sci.* B. 6(4): 224-229.

1905

NARAYANA, H. S.

1955 Flower of *Tamarindus indica* L.—a correction. *Sci. & Cult.* 21(3): 157-158.
An illustrated note.

1906

NARAYANA, L. L.

1957 Study of the gametophytes in *Garuga pinnata* Roxb. *Sci. & Cult.* 23(5): 248-249.

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1957 Embryology of two *Simaroubaceae*. *Curr. Sci.* 26(10): 323-324.
Deals with the embryology of *Ailanthus excelsa* and *Balanites roxburghii*.

1908

1958 Floral anatomy of *Garuga pinnata* Roxb. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 288.

1909

1958 Embryology of *Oxalidae*. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 289-290.
Studies the embryology of *Oxalis tetraphylla, O. pubescens, O. variabilis, O. latifolia, O. pescaprae, O. corymbosa* and *Biophytum intermedium*.

1910

1958 Floral anatomy and embryology of *Cipadessa baccifera* Miq *J. Indian bot. Soc.* 37(1): 147-154.

1911

NARAYANA, R

1954 Female gametophyte, endosperm and embryo of *Lysiana exocarpi* (Behr.) Van Tiegh. *Curr. Sci.* 23: 23-24.

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1954 Contribution to the embryology of *Dendrophthoe* Mart. *Phytomorph.* 4: 173-179.

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1954 The embryology of *Lysiana exocarpi* (Behr.) Van Tiegh. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 138-139.

1914

1955 Floral morphology and embryology of *Nuytsia floribunda* (Labill.) R. Br. (Abstr.) *Proc. 42nd Indian Sci. Cong.* iii: 239-240.

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1956 Morphological and embryological studies in the family *Loranthaceae - Loranthoideae*. Thesis for the Ph.D. Degree of the Delhi University.

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NARAYANA AIYAR, K.

1951-57 The pharmacognosy of ayurvedic drugs (Travancore & Cochin). Trivandrum, Central Research Institute. 3v.

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NARAYANA RAO, B. N., KRISHNAMURTHY, K. H. *and* VENKATAKRISHNAIAH, B. S.

1956 Branching in Areca palm, *Areca catechu* L. *J. Bombay nat. Hist. Soc.* 53(3): 492-493.

1918

NARAYANA RAO, L.

1894 The Harikalguda forest, Mysore. *Indian For.* 20: 213.

1919

1936 A note on the pistillody in *Hibiscus syriacus* L. *Curr. Sci.* 5: 301-302.

1920

1937 Perennation in *Cuscuta reflexa*. *Curr. Sci.* 5(10): 537-538.

NARAYANA RAO, L.—*contd.*

An interesting mode of dormancy in active life is exhibited during the dry summer months. When favourable conditions appear, the parasite resumes its active life again from apparent life which has existence in the several parts of the tissue.

1921

1944 A new species of *Isoetes* from Bangalore, Mysore State. *Curr. Sci.* 13(11): 286-287.

A new *Isoetes* collected from Bangalore has been named *I. sampathkumarani* sp. nov.

1922

NARAYANA RAO, S. R.

1941 An algal flora from the Lockhart limestone (Ranikot series) of the Samana range (N.-W. India). *J. Mysore Univ.* 2(7): 41-53.

1923

1943 Palaeobotany in India. *J. Indian bot. Soc.* 22: 178-179.

1924

1944 Upper Jurassic marine algae from Trichinopoly, S. India. *Curr. Sci.* 13: 101-102.

Gives a list of marine fossil algae occurring in the Cullygoody limestone in Trichinopoly area and points out that though algal flora is a small one, it is of special interest, since it establishes for the first time, the Jurassic horizon in the Trichinopoly area.

1925

1947 On two species of *Solenopora* from the Cullygoody limestone of the Trichinopoly Dt., S. India. *J. Indian bot. Soc.* 26: 331-336.

1926

1952 Professor Birbal Sahni's contribution to Indian geology. *Palaeobotanist.* 1: 46-48.

1927

NARAYANA RAO, S. R. *and* MISRA, S. S.

1949 An oil bearing alga from the Palana lignite (Eocene) of Rajputana. *Curr. Sci.* 18: 380-381.

Records the presence of oil-bearing yellow bodies resembling in structure and dimensions the alga *Botryococcus braunii* in a lignite bed from Palana near Bikaner in north India.

1928

NARAYANA RAO, S. R. *and* MOHAN, KRISHNA

1954 Microfossils from the Dogra slates (pre-Cambrian) of Kashmir. *Curr. Sci.* 23(1): 11-12.

The discovery of the presence of the microfossils in the beds of Dogra slates near Baranwala, Kashmir is supposed to reveal clues to fix the age of these beds.

1929

NARAYANA RAO, S. R. *and* SRIPADA RAO, K.

1935 The age of the Intertrappean beds near Rajahmundry. *Curr. Sci.* 4(5): 324.

Commonest *Acicularia* was the alga found in these beds, as identified by J. Pia of Vienna. This leads to the support of the view held by Sahni that the Deccan trap-flows are of an early tertiary age.

1930

1936 *Holosporella; H. siamensis* Pia from the Rajahmundry limestones. *Rec. geol. Surv. India.* 71(4): 397-399.

1931

1940 More algae from the Rajahmundry intertrappean. (Abstr.). *Proc. 27th Indian Sci. Cong.* iii: 118-119.
Fossil algae belonging to *Dissocladella* and *Halimeda* are found in this area.
1932

NARAYANA RAO, S. R.,
SRIPADA RAO, K.
and PIA, JULIUS
1938 Calcareous algae from the Intertrappean beds near Rajahmundry. *Curr. Sci.* 6(8): 376-377.
A provisional list of the *Dasycladaceae* is given.
1933

NARAYANA RAO, S. R.
and VERMA, C. P.
1953 Fossil algae from the Salt range; Permian algae from the middle Productus beds. *Palaeobotanist.* 2: 19-21, 21-23.
1934

NARAYANASWAMI, R.
1953 Commentaria herbarii; taxonomic notes on *Pittosporum undulatum* Vent. *J. Madras Univ.* 13(3): 248-251.
1935

NARAYANASWAMI, R. V.
1943 Text book of intermediate botany. Madras. xii, 355p.
1936

NARAYANASWAMI, S.
1940 Megasporogenesis and the origin of triploids in *Saccharum. Indian J. agric. Sci.* 10: 534-551.
1937

1950 The occurrence of a velamen and mycorrhiza in the subterranean roots of the Orchid, *Spiranthes australis* Lindl. (Letter). *Curr. Sci.* 19(8): 250-251.
Whether the occurrence of cortical mycorrhiza, a piliferous layer and velamen cells are adaptation to dry conditions as supposed by Lakshminarayana and Venkateswarlu is open to question as the material of this note came from a wet marsh.
1938

1952 Microsporogenesis and male gametophyte in *Eleusine coracana* Gaertn. (Letter). *Curr. Sci.* 21(1): 19-21.
Certain peculiar features observed during the investigation on the development of the pollen in this species have been recorded.
1939

1953 The structure and development of the caryopsis in some Indian millets; *Pennisetum typhoideum. Phytomorph.* 3(1-4): 98-112.
1940

1955 The structure and development of the caryopsis in some Indian millets; *Echinochloa frumentacea* Link. *Phytomorph.* 5(2 & 3): 161-171.
1941

1955 The structure and development of the caryopsis in some Indian millets; *Eleusine coracana* Gaertn. *Mich. Acad. Sci. Arts Letters.* 40: 33-46.
1942

1956 Structure and development of the caryopsis in some Indian millets; *Setaria italica. Bot. Gaz.* 118(2): 112-122.
The object of this investigation has been twofold: (a) to clarify the true nature of the bristles and (b) to study the embryology of the plant.
1943

NARAYANASWAMI, S.—*contd.*

1956 The morphogenetic effects of some hormones and other chemicals on gemmae of *Tetraphis pellucida* Rabenh. *Phytomorph.* 6(3 & 4): 323-331.

1944

1957 The morphogenetic effects of various synthetic hormones on the liverwort *Lunularia*. *J. Indian bot. Soc.* 36(2): 180-190.

1945

1957 Morphogenetic effects of various synthetic hormones on the gemmae and thalli of *Lunularia*. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 270.
Hormone treatment of the growing thalli caused an abrupt narrowing of the thallus tips drawn out into twisted snouts. The gemma cups grew into enlarged bowls with their fringed margins reflexed. The pores stood upright like hollow tubes and funnels and rhizoids were induced from upper surfaces and within the cups.

1946

1958 Over growth of the Scutellum of the grass embryo in culture. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 290.

1947

NARAYANASWAMI, S. *and* LAL, MANOHAR

1957 Observations on some regenerations in some mosses. *Phytomorph.* 7(2): 244-252.
Deals with the observations of the authors on the regenerative capacity of some indigenous mosses, interpreted in the light of the data already on record by others.

1948

NARAYANASWAMI, S. *and* LARUE, C. D.

1955 The morphogenetic effects of various physical factors on the gemmae of *Lunularia*. *Phytomorph.* 5(2 & 3): 356-372

1949

NARAYANASWAMI, S. *and* RANGASWAMY, N. S.

1957 Occurrence of *Physoderma* species on *Marsilea minuta* L. in India. *J. Indian bot. Soc.* 36(1): 104-105.

1950

NARAYANASWAMI, V.

1926 Enumeratio Flora Siamensis, by W. C. Craib—a review. *J. Indian bot. Soc.* 5: 31-34.
This is a review of the vol. 1, pt. 1 of the Craib's book.

1951

1933 The provenance of early Malayan plant collections (localities for the collections of Kunstler, Wray and Scortechini in the Malayan peninsula with the collection numbers). *J. Asiat. Soc. Bengal.* (n.s.). 27(3): 327-477.

1952

1936 Abstracts of papers on botany, published in 1935. *Indian Sci. Abst.* Bot. 7: 1-28, 29-72.

1953

1940 A note on *Cassia javanica* L. and *C. nodosa* Ham., with a key to the cultivated tree Cassias. *J. R. Asiat. Soc. Bengal.* 6(1): 31-38.

1954

1941 A new *Gymnosporia* from Bastar state, India; *Gymnosporia bailadillana* Narayanaswami et Mooney sp. nov. *J. Indian bot. Soc.* 20(4): 191-193.

1955

1941 A revision of the Indo-Malayan species of *Glycosmis*. *Rec. bot. Surv. India.* 14(2): i-iv, 1-72.
26 species, of which 7 are new, have been described. The once protean species of *G. pentaphylla* Corr. and *G. arborea* have been clearly and definitely defined and delimited as to their status and distribution.
1956

1946 The status of *Desmotrichum* Bl. and the synonymy of *Dendrobium macraei* Lindl. and *Desmotrichum fimbriatum* Bl. *J. Indian bot. Soc.* 25(4): 207-219.
1957

1946 Grasses of Burma by D. Rhind —a review. *Sci. & Cult* 11(10): 536-539.
1958

1948 *Datura metel* L. and *Datura fastuosa* L. *Sci. & Cult.* 14(1): 38-39.
Regards that *D. metel* should be the name for both the white and violet flowered plants. There is slight difference in the fruits of the two species and on that account *D. fastuosa* may be regarded as a variety of *D. metel* L.
1959

NARAYANASWAMI, V. *and* BISWAS, K.
1957 Survey of rose growing centres and rose industry in India; a monograph. New Delhi, Council of Scientific and Industrial Research. viii, 113p.
Gives a descriptive account of the rose-growing areas in India. rose cultivation, rose water and rose essences distillation, chemistry of rose oil, systematic census with description; also an account of the cultivation of roses in countries other than India and the manufacture and trade of the oils of rose in Europe.
1960

NARAYANASWAMI, V. *and* SESHAGIRI RAO, R.
1949 A preliminary note on the Indo-Burmese species of *Grewia* L. *J. Indian bot. Soc.* 24(4): 177-190.
The original home of *Grewia* appears to be equatorial Africa, from where the genus has spread eastwards as far as the Polynesian islands through the countries of India, Burma, Siam, Indo-China and Malaya. Species of section *Microcos* and *Omphacarpus* have been transferred to *Microcos* L. The 'Phalsa' plant is common all over India as really *G. subinaequalis* Dc. It was hitherto called as *G. asiatica* L.
Nomenclatural changes of some species of *Grewia* have been carried out.
1961

NARAYANAYYA, D. V.
1928 The aquatic weeds in Deccan irrigation cannals. *J. Ecol.* 16: 123-133.
1962

NARESH CHANDRA
1958 Morphology and vascular anatomy of the spike of *Mnesithea laevis* (Retz.) Kunth. *J. Indian bot. Soc.* 37(1): 181-193.
1963

NASIR, E.
1957 A key to the genera and species of *Umbelliferae* of

NASIR, E.—*contd.*
N. W. Himalaya and west Pakistan. *Biologia.* 3: 56-71.
1964

NAST, C. G. *and* BAILEY, I. W.
1945 Morphology and relationship of *Trochodendron* and *Tetracentron;* inflorescence, flower and fruit. *J. Arnold Arbor.* 26: 265-276.
1965

1946 Morphology of *Euptelea* and comparison with *Trochodendron. J. Arnold. Arbor.* 27: 186-192.
1966

NATARAJAN, A T.
1950-51 A note on the growth in a herbarium specimen of *Portulaca tuberosa* Roxb. *J. Bombay nat. Hist. Soc.* 49: 134-136.
1967

1951 Studies in the morphology of pollen grains (*Tubiflorae*). Annamalai Nagar, Annamalai University. 84p.
Thesis for the M.Sc. Degree, 1951.
1968

1957 Studies in the morphology of pollen grains — *Tubiflorae. Phyton.* 8(1): 21-24.
A morphological study of pollen grains of 81 species from 58 genera and 10 families of the *Tubiflorae* has been made and data relating to shape, size, colour, exine, polar view, equatorial view, furrows and germ pores are given. Based on the pollen characters, the species have been classified and this classification is suggested to serve also as a key to the species and genera of a family.
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1945 Science and progress in India. (Editorial). *Nature.* [ ]: 525.
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1862 Especes et varietes nouvelles de *Cucurbitacees* cultivees au Museum d'Historie naturelle, en 1860 et 1861. *Ann. Sci. nat.* 16: 154-159.

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1940 Studies in the ecology of mangroves; determination of Osmotic pressure of *Avicennia alba* Bl. *J. Univ. Bombay.* (n.s.). B. 8(5): 58-73.

1980

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1981

1951 Succession of mangrove vegetation of Bombay and Salsette islands. *J. Bombay nat. Hist. Soc.* 50(1): 157-160.

1982

1953 Analytical characters of some of the marshy vegetation of Bombay and Salsette islands. *J. Bombay nat. Hist. Soc.* 51(3): 636-652.

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1990

1832 Systema Laurinearum... plantarum laurinarum secundum affinitates naturales expositio...qua comprehenditur Hufelandiae laurini generis novi laureato seni consecrati illustratio. Vratislaviae. 25p.
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1996

1832 Uber *Artemisia indica* und eine ihr wenwandte neue Art; *A. nepalensis*. *Flora*. [ ]: 289.
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1956 A contribution to the life history of *Dipteracanthus patulus* Jacq. (Abstr). *Proc. 43rd Indian Sci. Cong*. iii: 234.
The development of the embryo is of the normal type.
2000

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1957 Male gametophyte and megasporogenesis in *Gnetum*. *Phytomorph*. 7(2): 230-236.
An account of the observations made by the authors on the male gametophyte and megasporogenesis in *G. ula* and *G. gnemon*.
2001

NEITSCH, E.

1923 Die morphologische Natur der Ranken der *Cucurbitaceen*. *Repert. nov. Spec. Regn. veg*.
The morphological nature of the tendrils of the *Cucurbitaceae* is discussed.
2002

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1939 A new species of *Carex; C. streptorrhampha Nelmes*. *Kew Bull*. [ ]: 253-254.
The species is from Burma-Tibet frontier.
2003

1939 Notes on *Carex*. *Kew Bull*. 4: 199-202.
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2004

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Describes *Carex gilesii* Nelmes sp. nov. (Kashmir) and *C. luteo brunnea* Nelmes sp. nov. (Karakorum).
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1940 Notes on *Carex;* new African and Indian species. *Kew Bull.* 6: 269-272.
Carex eluta Nelmes sp. nov. (Nilgiri Hill), *Carex angustifructus* (Kukenth.) Nelmes sp. nov. (Sikkim) and *Carex hypsobates* Nelmes sp. nov. (Kashmir) are new Indian species.
2006

1946 A key to the Carices of Malaysia and Polynesia *Kew Bull.* 1: 5-29.
A key to 138 species of *Carex*. References to the first and other relevant publications along with the the distribution of the species are given in each case.
2007

1948 A new species of *Carex* from Burma; *Carex tavoyensis* Nelmes sp. nov. *Kew Bull.* 1: 67-68.
2008

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Extensive collections of N L. Bor from Punjab, Assam and Tibet have enriched Kew Herbarium. This is a new *Carex* isolated from his collections.
2009

1951 Facts and speculations on phylogeny in the tribe *Carceae* of the *Cyperaceae*. *Kew Bull.* 3: 427-436.
2010

NELSON, E. J
1866 *Pinaceae,* being a hand book of the firs and pines. xix, 223p.
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1868 The flora of Madura. *A Manual of Madura country.* p. 98-145.
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1933 Beitrage zur systematischen Kenntnis der Gattung *Linum*. *Beih. bot. Zbl.* 50(2): 947-951
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1926 Verzeichnis der *Malpighiaceen*, Sammlungen. *Arb. bot. Inst. Braunsberg.* 8: 3-58.
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1928 ***Malpighiaceae.*** *Pflanzenreich*: 92: 1-246; 93: 247-572; 94: 573-870.
A monograph.

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NIGAM, B. S.

1936 Physiology of zonation—effect of light and temperature on zonation in *Acrothecium* ***lunatum*** Wakker. *J. Indian bot. Soc.* 15: 115.

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NIGHT, R

1840 Remarks on the fruit of the natural order *Cucurbitaceae. Madras J. Lit. & Sci.* 12: 43.

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1892 Studien uber die *Xyrideen. K. svenska Vetensk Akad. Handl.* 24: 14.

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1955 Cytology of *Equisetum debile. J. Indian bot. Soc.* 34(2): 112-114.

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1956 Cytology of *Psilotum nudum* (L). Beauv. (*P. triquetrum* Sw.). *Cellule.* 57(3): 308-318.

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1956 Studies on the cytology and phylogeny of the pteridophytes; observation on the ***Marattiaceae.*** *J. Indian bot. Soc.* 35(2): 233-237.
On the cytology of *Angiopteris evecta* and *Marattia fraxinea* from south India. The chromosome number in ***Marattia*** is n=78 and in ***Angiopteris*** n=80.

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1956 Cytology of the *Ophioglossaceae. Curr. Sci.* 25: 161-162.

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The cytology of 9 species and a few varieties of the genus *Lycopodium,* indigenous to south India is described. The species studied are found to have n=48, n=136.

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1944 Histopathology of Betelvine leaves attacked by a bacterium. *Sci. & Cult.* 10: 58.
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1945 Embryological and cytological studies in the family *Asclepiadaceae;* an outline of meiosis in *Daemia extensa* Br. with special reference to the roll of nucleolus. *Proc. Indian Acad. Sci.* B. 21(3): 174-177.
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1948 On some features of taxonomic interest in the *Gamopetalae* of Nagpur. (Abstr.). *Proc. 35th Indian Sci. Cong.* iii: 219.
2039

NIRULA, R. L. *and*
RICHHARIA, R. H.
1945 Embryological and cytological studies in the family *Asclepiadaceae;* the development and arrangement of microspores in *Hemidesmus indicus* Br. *Proc. Indian Acad. Sci.* B. 21(3): 178-180.
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NIRULA, R. I. *and*
TEWARI, S. D. N.
1945 Megasporogenesis and embryo-sac formation in *Cryptolepis buchanani.* (Abstr.). *Proc. 32nd Indian Sci. Cong.* iii: 72.
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NISBET, J.
1893 On mixed forests and their advantages over pure forests. London, H.M.S.O. 30p.
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1907 The chief timber trees of India. *Indian For.* 33: 40-48, 105-162, 205-211.
Treats about Teak, Sal, Deodar, Sissoo or Shisham, Blackwood, Babul, Indian Juniper, Khoir or Cutch Tree, Sandal, Red-sanders, Pyingado (Iron-wood), Nahar or Nagesar, Anjan, Mahua.
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NISHIMURA, M.
1922 Comparative morphology and development of *Poa pratensis* and *Setaria italica. Jap. J. Bot.* 1: 55-85.
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NITSCHKE, R.
1923 Die geographische Verbreitung der Gattung *Acalypha. Bot. Arch.* 4: 277.
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1860 Uber die Reizbarkeit der Blatter von *Drosera rotundifolia* L. *Bot. Ztg.* [ ]: 229-234, 237-243, 245-250.
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1933 Genetical studies on *Sesamum indicum* L. *J. Coll. Agric. Tokyo.* 12(2): 227-287.
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1934 Gametogenesis and embryogeny of *Sesamum indicum* L. *J. Coll. Agric. Tokyo.* 13: 19-25, 155-164.
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NOLTE, E. F.
1825 Botanische Bemerkungen uber *Stratiotes* und *Sagittaria.* Kopenhagen.
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1937 *Cortia hookeri* C. B. Clarke. *J. Bot. Lond.* [ ]: 93. *Cortiella* gen. nov., *C. hookeri* (C.B.C.) Norman nov. comb., *C. hedinii* (Diels) nov. comb., *Sehnum cortioides* sp. nov. (*C hookeri* C.B.C.) and *C. depressa* Don nov. comb. are changes mentioned.

2051

1938 New genera in *Umbellifereae*. *J. Bot. Lond.* 76: 198-202. *Pleurospermopsis* gen. nov., *P. sikkimensis* (Cl.) Norman. (=*Pleurospermum sikkimensis* Cl.).

2052

1938 The genus *Trachydium*. *J. Bot. Lond.* 76. The following new combinations have been made: *Chamaesium novemjugum* (Cl.) Norman (=*Trachydium novemjugum* Cl.), *Schultzia dissecta* (Cl.) Norman (=*T. dissectum* Cl.), *Physospermopsis obtusiuscula* (Cl.) Norman (=*T. hirsutulum* Cl. and *T. obtusiusculum* (Dc.) Cl.), *Chamaesium viridiflorum* (French.) Norman (=*T. affine* W. W. Smith; *T. viridiflorum* French.), *Physospermopsis kingdon-wardii* (Wolff) Norman (=*T. kingdon-wardii* Wolff), *Chamaesium subnudum* (Cl.) Norman (=*T. subnudum* Cl.).

2053

NOUGEREDE, L. J. DE LA

1935 *Vitex peduncularis* and Blackwater fever. *Indian For* 61: 593-595.

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1933 The root system of *Coffea arabica*. *Emp. J. exp. Agric.* 1: 271.

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1937 Studies of the physiology of *Coffea arabica* L.; photosynthesis of coffee leaves under natural conditions. *Ann. Bot. Lond.* (n.s.). 1(3): 354-367.

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1852 Rhododendrons of Assam and Bhotan. *J. Bot. Lond.* 5: 353.

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1954 Apomixis in angiosperms. *Bot. Rev.* 20(10): 577-649. Many Indian flowering plants are included in this enquiry of apomixis, reproduction without genic fusion.

2060

NYLANDER, W.

1867 Lichenes Kurziani a Calcutta. *Flora*. [ ]: 3-9.

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1869 Lichenes Kurziani Bengaliense. *Flora*. [ ]: 69-73.

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1873 Lichenes Insularum Andamans. *Bull. Soc. Linn. Normandie*. 7: 162-183.

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1880 On a collection of exotic lichens made in eastern Asia by A. C. Maingay. *J. Linn. Soc.* 20: 48-69.

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NYLANDER, W. W.

1900 Lichenes Ceylonenses et additamentum ad Lichenes Japoniae. *Acta. Soc. Sci. fenn.* 26(10): 1-33.

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O'CONNOR, J E.

1874-75 Vanilla: its cultivation in India; rev. ed. Calcutta, Supdt., Govt. Ptg. 38p.

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1876 The cultivation of the *Eucalyptus globulus* and other Australian gums in India. *Indian For.* 2: 120-136.

2067

OHGA, I.

1923 On the longevity of the seeds of *Nelumbo nucifera*. *Bot. Mag. Tokyo.* 37: 87-95.

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1926 On the structure of some ancient but still viable fruits of Indian lotus, with reference to their prolonged dormancy. *Jap. J. Bot.* 3: 1-20.
Nelumbium speciosum is discussed.

2069

O'HANLON, M. E.

1934 Comparative morphology of *Dumortiera hirsuta*. *Bot. Gaz.* 96: 154-164.

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1932 On the systematic importance of spodograms in the leaves of the Japanese *Bambuseae*. *J. Fac. Sci. Tokyo. Univ.* (S. 3). 4(1): 1-130; *Bot. Mag. Tokyo.* 41: 719-731; 42: 270-278. 311-317, 387-395, 514-524; 43: 193-205, 479-481; 44: 351-359, 537-545.
Indian genera discussed are *Dendrocalamus. Bambusa, Semiarundinaria, Sinobambusa, Chimonobambusa* and *Phyllostachys, Bambusa nana* is also dealt with.

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OKE, J. G.

1950 Chromosome numbers in some species of *Dichanthium* Willemet and *Bothriochloa* O. Ktze. *Proc. Indian Acad. Sci.* B. 22: 227-230.

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1897 On a plant of *Glossopteris*, with part of the rhizome attached and on the structure of *Vertebraria*. *Rec. geol. Surv. India*, 30: 45.

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1863 Fossil flora of the Rajmahal series in the Rajmahal Hills. *Palaeont. Indica.* 1(1): 1-52.

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1863 Fossil flora of the Gondwana system. *Palaeont. indica.* 1(1).

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1859 The Indian species of *Utricularia*. *J. Proc. Linn. Soc.* 3: 170-190.

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1861 Notes on *Aurantiaceae,* review and synopsis of Indian species. *J. Proc. Linn. Soc.* 5.
2080

1864 Notes on the *Loranthaceae,* with a synopsis of the genera. *J. Proc. Linn. Soc.* 7: 90-106.
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1869 First book of Indian botany. London, Macmillan & Co. 396p.
2082

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S. griffithiana Oliv. is a new species described.
2083

ONDAATJE, W. C.

1853-54 Observations on the vegetable products of Ceylon. *Ceylon Almanac.* Appndx. p. 1-32.
2084

ONE, TOMOWO

1928 Embryologische Studien an einigen *Pontederiaceae. Sci. Rept. Tohoku Imp. Univ.* [ ]: 405-415.
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1930 Further investigations on the cytology of *Rumex;* on the inter-sexual plant of *Rumex acetosa;* chromosomes of *R. montanus;* chromosomes of an inter-sexual plant of *Rumex acetosella. Bot. Mag. Tokyo.* 44: 168-176.
In the Japanese language with an English summary.
2086

OOSTOTROOM, S. J. VAN

1934 A monograph of the genus *Evolvulus. Meded. Rijks-Herb.* no. 14.
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1938-45 The *Convolvulaceae* of Malaysia. *Blumea.* 3: 62-94, 267-371, 481-582; 5: 268-273, 339-411, 689-691.
2088

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1845 Travels in India, tr. by H. Evans Lloyd. London. 2v.
2090

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1921 Intumescens on the leaves of *Martea begonifolia* Roxb. *Notes R. bot. Gdn. Edinb.* 12: 258.
2091

1921 Observations on the structure of the seeds in the *Capparidaceae* and *Resedaceae. Notes R. bot. Gdn. Edinb.* 12: 259.
2092

1926 On the secretory organs of the *Dioscoreaceae. Notes R. bot Gdn. Edinb.* 15: 133.
2093

1933 *Taiwania* in Burma—a new record. *Notes R. bot. Gdn. Edinb.* 18: 6.
2094

1933 Planteae Chinenses forrestianae coniferae. *Notes R. bot. Gdn. Edinb.* 18: 119-158.
Notes on the distribution of the Himalayan conifers.
2095

1937 On the value for diagnostic purposes of certain of the anatomical features of conifer leaves. *Notes R. bot. Gdn. Edinb.* 19: 255-266.
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1837 On the identity of the bark of *Strychnos nux-vomica* with the false Angustura of writers of materia medica. *Quart. J. med. & phys. Soc.* 22(1836); *Madras J. Lit. & Sci.* 5: 366-367.

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OSLEN

1826 *Leucas aspera* as a remedy for snake bites (with remarks by N. Wallich). *Trans. med. phys. Soc. Calcutta.* 2.

2099

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1922 Notes on the forest communities of Garhwal Himalaya. *J. Ecol.* 10: 129-167.

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1925 The forests of Tehri-Garhwal. *Indian For.* 51: 528.

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1927 A forest flora for Kumaon. Allahabad.

2102

OSTERWALDER, A.

1898 Beitrage zur Embryologie von *Aconitum napellus* L. *Flora.* 85.

2103

OSWALD, K.

1878 Les Palmiers; histoire iconographique. Paris.

2104

OTTEANU, NILLI RADICA

1933 Etude monographie sur *Hibiscus esculentus* (*Abelmoschus esculentus* (L) Mez.) Thesis no. 931, submitted to the Universite de Geneve, Faculte des Sciences.

2105

OTTLEY, C. G. *and* REID, F. A.

1849 On the cultivation of the Hurriallee grass (*Cynodon dactylon*). *Madras J. Lit. & Sci* 15: 477.

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1848 Geographical and statistical memoir of a survey of the Nilgherry mountains. *Madras. J. Lit. & Sci.* 15: 1-138.

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1919-20 Enumeratio systematico fungorum. The Hague. 2v.

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PADMANABHAN, S. Y.

1946 *Rhizoctonia* leafspot, a new leaf disease of sugarcane. *Curr. Sci.* 15: 353.

2109

1947 *Fusarium* sp. parasitic on *Epipyrops*, a lepidopterous parasite on the sugarcane *Pyrilla*. *Proc. Indian Acad. Sci.* B. 26: 77-92.

2110

1948 A destructive helminthosporiose of bananas in Bengal. *Sci. & Cult.* 13: 509.

2111

1948 New seedling disease of brinjals. *Indian J. agric. Sci.* 17: 393-395.

2112

1948 Occurrence of *Myrothecium roridum* Tode ex Fries on cowpea in India. *Curr. Sci.* 17: 56-57.

2113

1949 Occurrence of fungi inside rice kernels. *Curr. Sci.* 18: 442.

2114

PADMANABHAN, S. Y. *and* RAFAY, S. A.

1942 Two new reports of fungi on *Saccharum officinarum* and *S arundinaceum*. *Curr. Sci.* 11: 150.

2115

PADMINI DEVI

1955 Studies in leaf form on venation of vascular plants—*Verbenaceae* (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 228.

2116

PADWICK, G. W.

1939 The genus *Fusarium;* known occurrence in India. *Indian J. agric. Sci.* 9: 171-184.
This is one of a series of publications on the genus *Fusarium,* wherein attempt has been made to bring order in this complex group.

2117

1940 The genus *Fusarium;* a critical study of the fungus causing wilt of gram (*Cicer arietinum* L.) and of the related species of the subsection *Orthocera* with special relation to the variability of key characteristics. *Indian J. agric. Sci.* 10: 241-284.

2118

1940 The genus *Fusarium; F. udum* Butler, *F. vasinfectum* Atk. and *F. lateritium* Nees var. *uncinatum* Wr. *Indian J. agric. Sci.* 10: 863-878.

2119

1940 A new disease of wheat in India. *Curr. Sci.* 9: 179-180.

2120

1941 The genus *Fusarium;* an attempt at mass revision. *Indian J. agric. Sci.* 11: 663-674.

2121

1941 Mushroom cultivation in India. *Indian Fmg.* 2: 363-466.

2122

1941 The use of field observation in classifying fungi imperfecti. *Proc. nat. Acad. Sci. India.* 11(2): 74-84.
Pleads for a more thorough study of imperfect fungi on their natural substrata to get a clearer conception of their classification.

2123

1945 Notes on Indian fungi. London, Imperial Mycological Institute. 16p. (Mycological Paper no. 12).

2124

1945 Notes on Indian fungi. London, Imperial Mycological Institute. 12p. (Mycological Paper no. 17).

2125

PADWICK, G. W. *and* AZMATULLAH, M.

1943 *Claviceps purpurea* (Fr.) Tul. and a new species from Simla. *Curr. Sci.* 12: 257.
The new species is named *C. viridis* Padwick and Azmatullah.

2126

1944 Notes on Indian fungi. London, Imperial Mycological Institute. 17p. (Mycological Paper no. 10).

2127

PADWICK, G. W. *and* BHAGWAGAR, P. R.

1943 Wilt of gram in relation to date of sowing. *Indian J. agric. Sci.* 13: 289-290.

2128

PADWICK, G. W. *and* GANGULY, D.

1945 Stackburn disease of rice in Bengal. *Curr. Sci.* 14: 31-32.

2129

PADWICK, G. W. *and* MERH, J. L.

1943. Notes on Indian fungi. London, Imperial Mycological Institute. 7p. (Mycological Paper no. 7).

2130

PADWICK, G. W., MITRA, M. *and* MEHTA, P. R.
1940 The genus *Fusarium;* infection and cross-infection tests with isolates from cotton (*Gossypium* sp.), pigeon pea (*Cajanus cajan*) and sann-hemp (*Crotalaria juncea*). *Indian J. agric. Sci.* 10: 707-715.
2131

PAI, R. M.
1956-57 The floral anatomy of some *Scitamineae*.
Thesis accepted for the M.Sc. Degree of the University of Bombay.
2132

PAL, B. P.
1932 Burmese charophyta. *J. Linn. Soc.* 49: 47-92.
2133

1943 Virus diseases of potatoes in India. *Curr. Sci.* 12: 279.
2134

1948 The control of wheat rusts by breeding. *J. Indian bot. Soc.* 27: 169-185.
2135

PAL, B. P. *and* MUNDKUR, B. B.
1939 Studies in Indian cereal smuts; cereal smuts and their control by development of resistant varieties. *Proc. Indian Acad. Sci.* B. 9: 267-270.
2136

1945 Studies in Indian cereal smuts; further studies in varietal resistance of Indian and other wheats to loose smuts. *Indian J. agric. Sci.* 15: 106-108.
2137

PAL, B. P. *and* RAMANUJAM, S.
1939 Induction of polyploidy in chilli, *Capsicum annuum* L. by Colchicine. *Nature.* 143: 245.
2138

1940 Asynapsis in chilli (*Capsicum annuum* L.). *Curr. Sci.* 9(3): 126-128.
2139

PAL, B. P. *and* SINGH, H. B.
1943 Floral characters and fruit formation in the Egg plant. *Indian Genet.* 3: 45-58.
2140

PAL, N. L.
1934 Studies on the respiration of conjugating *Spirogyra*, with special reference to fat metabolism. *New Phytol.* 33: 241-273.
2141

PAL, N. L. *and* CHATTERJEE, U. N.
1936 Effect of Insulin on plant respiration. *Nature.* 137: 535-536.
2142

PAL, NIRANJAN
1951 A note on the embryology of *Stellaria media* L. (Letter). *Sci. & Cult.* 16(8): 374.
2143

1952 A contribution to the life histories of *Stellaria media* L. and *Polycarpon loeflingiae* Bth. & Hk. *Proc. nat. Inst. Sci. India.* 18(5): 363-378.
Describes the development of the flower, pollen, embryosac, embryo and seed in *Stellaria media* and *Polycarpon loeflingiae*. The fertilisation is normal and porogamous. The development of the embryo in *Stellaria media* is after caryophyllad type, whereas in *Polycarpon loeflingiae*, it is of the solanad type. The two species differ in many points.
2144

PAL, PRADYOT K.

1957 Chromosome number in the genus *Heliotropium* Linn. *Curr. Sci.* 26(7): 218.
The somatic and gametic counts of chromosomes in *H. indicum*, *H. ovalifolium* and *H. curassavicum* are n = 11, n = 16 and n = 14 respectively.
2145

PALACIOS, G. *and* BARI, A.

1936 The physiology of Indian nodule bacteria. *Proc. Indian Acad. Sci.* B. 3: 334-361.
2146

1936 A new micro-organism, associated with the nodule bacteria in *Cajanus indicus*. *Proc. Indian Acad. Sci.* B. 3: 362-365.
2147

PALIT, B. K.

1936-37 The investigation on the growth of leaves of *Vallisneria spiralis* with and without roots. *Trans. Bose Res. Inst.* 12: 25-42.
2148

1941 Studies on the growth and development of jute (*Corchorus capsularis*) with special reference to (1) the requirements of Boron during its life-cycle, and (2) the relation of Boron to the 'Dieback' effect. *Trans. Bose Res. Inst.* 14: 111-125.
The optimum range of Boron concentration for jute grown in sand culture lies between 0.01 p.m. to 0.1 p.m. Concentration above and below these values was found to be less effective.
2149

PALIWAL, B. P.

1935 A contribution to the flora of Agra.
Thesis submitted for the M Sc. Degree of the Agra University.
2150

PALIWAL, R. L.

1950 Life history of *Coriandrum sativum* L. (Abstr.). *Proc. 36th Indian Sci. Cong.* iii: 47.
2151

1950 Life history of *Cucumis melo* var. *pubescens* Wild. (Abstr.). *Proc. 36th Indian Sci. Cong.* iii: 49.
2152

1951 Polarity of male cells in pollen grains of some *Umbelliferae*. *Curr. Sci.* 20(1): 17.
Studies the pollen grains of *Coriandrum sativum* L., *Cuminum cyminum* L., *Daucus carota* L., *Foeniculum vulgare*, *Heracleum candicans*, *Peucedanum graveolens* Bth., *Pimpinella diversifolia* and *Seseli indicum* W. & A.
2153

1953 A new technique for the micro-dissections of embryo-sacs of the *Santalaceae*. *Phytomorph.* 3(1-4): 118-121.
2154

1954 Morphological studies in some parasitic angiosperms of the *Santalaceae*.
Thesis for the Ph.D. Degree of the Agra University.
2155

1956 Morphological and embryological studies in some *Santalaceae;* based on the thesis submitted for the Ph.D. Degree of the University of Agra, 1954. *Agra Univ. J. Res* 5(1): 193-194.
Deals with investigations on *Osyris arborea* Wall., *Santalum album* L., *S. yasi* Seemann, *Thesium alpinum* L.,

T. humifusum Dc. and *T. rostratum* Mert & Koch. There is a comparative discussion on the phylogenetic relationships of the *Santalaceae*. Some similarity is found between the embryological features of *Santalaceae* and *Rubiaceae*. The separation of *Santalum* and *Osyris* on the one hand into tribe *Osyrideae*, and *Thesium* into tribe *Thesieae* on the other hand is considered justified on the basis of the present studies.

2156

PALLAS, E.

1896 Zur Systematik der Gattung *Eriophorum*. *Bot. Ztg.* [ ]: 147-155.

2157

PALLAS, P. S.

1800-02 Species astragalarum descriptae et iconibus coloratis illustratae. Lipsiae, sumptibus G. Martini. viii, 124p.

2158

PALLITHANAM, J. (SJ.)

1956 Petaloid filaments in *Ipomoea rubro-caerulea* Hook. *J. Bombay nat. Hist. Soc.* 53(3): 503-504.

2159

1957 Observation on the flora of Kodaikanal. *J. Bombay nat. Hist. Soc.* 54(4): 835-844.
This paper records the occurrence of the plants collected by the author on the Kodaikanal, with notes on the morphology.

2160

PALM, B. T

1925 Embryological notes on tropical *Compositeae*: *Vernonia chinensis* and *Vernonia cinerea*. *Ann. Jard. bot. Buitenz.* 34: 188.

2161

PAMPANINI, R.

1915-16 Le *Magnolie*. *Bull. Soc. Tosc. Ort.* V. 40-41.
In the Italian language.

2162

1927-32 Material per lo studio delle *Artemisie* asiatiche. *Nuovo. G. bot. ital.* (n.s.). 34: 632-713; 36: 375-388; 38: 19-35.

2163

1930 La flora del Carcacorum. *Spediz. Ital. Filippi.* (1913-14) Ser II. 10: 1-285.

2164

1930 The *Artemisias* of eastern Asia (Abstr.). *Proceedings of the 5th International Botanical Congress, Cambridge*. p. 321-322.

2165

1931 *Artemisia*. *Act. Hort. gothoburg* 6: 67-68.

2166

PANCHAKSHARAPPA, M. G.

1956 A contribution to the embryology of *Crassula quadrifida* Baker. *J. Karnatak. Univ.* 1(1): 105-115.

2167

PANDE, A. B

1908 Abnormal type of *Butea frondosa*. *Indian For.* 34: 358.

2168

PANDE, S. K

1924 Notes on the morphology and biology of *Riccia sanguina* Kash. *J. Indian bot. Soc.* 4: 117-128.

2169

1932 On the morphology of *Notothylas indica* Kash. *J. Indian bot. Soc.* 11: 169-177.

2170

1933 On the morphology of *Riccia robusta* Kash. *J. Indian bot. Soc.* 12: 110-121.

2171

PANDE, S. K.—*contd.*

1933 The origin of the archisporium in *Notothylas levieri* Schiff. *Curr. Sci.* 1: 272.
2172

1934 On the morphology of *Notothylas levieri* Schiff. *Proc. Indian Acad. Sci.* B. 1: 205-217
2173

1935 Notes on the anatomy of a xerophytic fern, *Niphobolus adnascens* from the Malay Peninsula. *Proc. Indian Acad. Sci.* B. 1: 556-564.
2174

1936 Studies in Indian liverworts—a review. *J. Indian bot. Soc* 15: 221-233.
This is the first review of the researches on Indian hepaticology.
2175

1958 Some aspects of Indian hepaticology. *J. Indian bot. Soc* 37(1): 1-26.
Presidential address, delivered at the annual meeting of the Indian Botanical Society, Madras, January 1958. The subject of Indian hepaticology has been dealt with in detail from all aspects of view, from its early beginning to the state of the subject at the present day.
2176

PANDE, S. K *and* BHARADWAJ, D C.

1949 Studies in Indian *Hepaticae;* on some liverworts new to Indian flora. *J. Indian bot. Soc.* 28: 15.
An illustrated taxonomic account of *Anthoceros crispulus* (Mont.) Douin, *Conocephalum supra-decompositum* (Lindb.) St. and *Aspiromitus harrisanus* St
2177

1952 The present position of Indian hepaticology with a note on the hepatic vegetation of the country. *Palaeobotanist.* 1: 368-381.
2178

PANDE, S. K. *and* CHOPRA, NARINDER

1957 Cyto-embryology of *Physcometreleopsis indica* Dixon. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 230-231.
2179

1957 Cytological studies in Indian mosses; *Pogonatum microstomum, P. stevensii, Bryum nitens* and *Physcomitrium pyriforme. J. Indian bot. Soc.* 36: 241-247.
The haploid number of chromosomes in *Pogonatum microstomum* (R. Br.) Brid, *P. stevensii* Rem. & Card; *Bryum nitens* Hook. and *Physcomitrium pyriforme* (L.) Brid. is 7, 7, 10 and 9 respectively. A table of chromosome numbers of a number of moss species is given.
2180

1957 Cytological studies in Indian mosses; *Physcomitreleopsis indica* Dix., *Anomodon minor* (P. Beauv.) Furnr. and *Bartramia subpellucida* Mitt. *J. Indian bot. Soc.* 36(4): 539-544.
A table of chromosome numbers in the members of the families *Funariaceae, Thudiaceae* and *Bartramiaceae* is given at the end of the paper.
2181

PANDE, S. K., MAHABALE, T. S., RAJE, Y. B. *and* SRIVASTAVA, K. P.

1954 Studies in Indian *Metzgerineae; Fossombronia himalayensis* Kash. *Phytomorph.* 4(3 & 4): 365-377.
2182

PANDE, S. K. *and* MISRA, R. N.

1943 Studies in Indian *Hepaticae;* on a new species of *Leptocolea* Evans from the W. Himalayas. *Proc. nat. Acad. Sci. India.* 13(1): 25-31.
L. himalayensis Pande & Misra is the new species described.
2183

1943 On the epiphyllous liverworts of India and Ceylon (1). *J. Indian bot. Soc.* 22: 159-169.
Describes two new species of liverworts, namely, *Calolejeunea himalayensis* Pande and Misra and *Leptolejeunea himalayensis* Pande & Misra from Mungpoo (4,000 ft.) in the neighbourhood of Darjeeling. Also describes taxonomic details of some others.
2184

PANDE, S. K. *and* SRIVASTAVA, K. P.

1952 The hepatic vegetation of Pachmarhi (Madhya Pradesh) —a preliminary survey. *J. Indian bot. Soc.* 31: 342-351.
2185

1954 A species of *Riolla* Mont.; *R. viswanathai* Pande, Misra et Srivastava sp. nov. from India. *Rev. bryol. lichen.* 23: 165-172.
2186

1954 The genus *Pallavicinia* Gray in India; a taxonomic account of *Pallavicinia canarus* St. (Abstr.). *Proc. 41st Indian Sci Cong.* iii: 117.
Deals with the structure and distribution of *Pallavicinia canarus* St. which grows abundantly at Agumle and Pachmari, Madhya Pradesh, where it forms dense clusters in favourable localities.
2187

1954 On a collection of liverworts from the neighbourhood of Spiti. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 117-118.
12 species of liverworts spread over 11 genera have been noted in this paper. Their names are given.
2188

1955 On a species of *Cephalozia* Dum from India; *C. horzogiana* Pande et Srivastava sp. nov. *Repert. nov. Spec. Regn. veg.* 58: 75-79.
2189

1957 Bryology. *Progress of Science in India. Section 6, Botany.* p. 26-31.
In this review of studies on bryology in India during 1939 to 1950, the authors say that researches were directed more to the liverworts than to mosses. A list of literature on bryology for 1939 to 1950 is appended to the review.
2190

PANDE, S. K., SRIVASTAVA, K. P. *and* MISRA, R. N.

1955 Studies in the *Metzgerineae; Sewardiella tuberifera* Kash. *Phytomorph.* 5(1): 57-67.
2191

PANDE, S. K. *and* SRIVASTAVA, T. N.

1942 Studies in Indian *Hepaticae;* on a new species of *Nowellia—N. indica* Pande and Srivastava from the western Himalayas. *Proc. Indian Acad. Sci.* B. 16(6): 175-179.
A new liverwort found growing on a tree trunk is described as *Nowellia indica* Pande and Srivastava from Almora, western Himalayas.
2192

PANDE, S. K. *and* UDAR, RAM

1956 Studies in Indian *Metzgerineae, Calycularia crispula* Mitten. *Phytomorph.* 6(3 & 4): 331-346.
2193

1957 Genus *Riccia* in India: a reinvestigation of the taxonomic status of the Indian species of *Riccia*. *J. Indian bot. Soc.* 36(4): 564-579.
Indian species of *Riccia* from Stephani's herbarium have been investigated as most of them were unobtainable in the country in spite of much search. The specific status of *R. gollani, R. bulbifera* and *R. microspora* has been discussed. All these have turned out to be synonyms of other species. *R. crispatula* is an authentic species. Detailed taxonomic account of *R. discolor, R. billardieri, R. gangetica* and *R. crispatula* together with a key is given.
2194

1957 A new species of *Riccia; R. aravalliensis* Pande et Udar sp. nov. from Mt. Abu, Rajasthan, India. *J. Indian bot. Soc.* 36(3): 248-253; Abstract in *Proc. 44th Indian Sci. Cong.* iii: 231.
2195

1957 On the Hepatic flora of Nepal. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 231-232.
The collection of liverworts studied are those of Sykes, Stainton, Williams and Polonin of 1949-54 from Nepal. They were sent to Pande for identification. 30 species of various genera have been identified.
2196

1958 Genus *Riccia* in India; species of *Riccia* from south India with description of a new species and notes on the synonymy of some recently described ones. *Proc. nat. Inst. Sci. India.* B. 24(2): 79-88.
Eleven species from south India, of which one is a new species (*R. tuberculata* Pande & Udar sp. nov.), have been discussed.
2197

PANDEY, KAMLA K.

1956 Studies in autotetraploids of linseed (*Linum usitatissimum* L.); morphology and cytogenetics. *Lloydia.* 10(4): 245-268; Abstract in *Biol. Abst.* 31(8): 23198.
Induced autotetraploids of 3 strains of linseed, *L. usitatissimum* have been studied to observe their comparative morphological and cytogenetical behaviour in the C2 population with special reference to the factors causing seed sterility.
2198

PANDEYA, S. C.

1953 Studies in the morphology and ecology of three species of *Dichanthium* Willemot. *J. Indian bot. Soc.* 32: 86-100.
2199

1954 Ecological studies of the grasslands of Sagar.
Thesis submitted for Ph.D. Degree of the University of Sagar.
2200

1955 Notes on autecology of *Iseilema anthephoroides* Hack. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 243.
2201

1955 Ecological spectra of 8 grassland associations near Sagar, M.P. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 243.
2202

PANDEYA, S. C. *and* JAIN, N. K.
1957 Notes on the autecology of *Shorea robusta* Gaertn. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 243.
2203

PANDEYA, S. C., JAIN, N. K. *and* JOSHI, S. R.
1957 Trends of secondary succession in the forest vegetation on Basalt Hills in Jabalpur. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 243.
2204

PANDIT, V. D.
1913 Pandita nighantu. Bangalore, Caxton Press. 460p.
In the Kannada language. Intended as a guide to medical practitioners. Contains glossary of botanical, mineral and animal products used in medical preparations given in 8 languages and in 3 parts.
2205

PANDURANGA RAO
1938 Effect of artificial wind on growth and transpiration in the Indian millet, *Setaria italica*. *Bull. Torrey bot. Cl.* 65: 229-232.
2206

PANIGRAHI, G.
1955 The gametophyte of *Aleuritopteris grisea* (Blanford) comb. nov. *Proc. nat. Inst. Sci. India.* B. 21: 143-146.
2207

1957 A note on *Aleuritopteris grisea* (Blanford) Panigrahi comb. nov and *A. anceps* (Blanford) Panigrahi comb. nov. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 233.
2208

1958 A note on ecogeographical and cytological studies in the pteridophyta. *Mem. Indian bot. Soc.* 1(3): 127-139.
2209

PANIGRAHI, G. *and* MANTON, I.
1958 Cytological and taxonomic observations on some members of the *Cyclosorus parasiticus* complex. *J. Linn. Soc.* 55: 729-743.
2210

PANIKKAR, M. R.
1950 The menace of weeds. *Sci. & Cult.* 15(11): 423-429.
An attempt is made to indicate the extent of the menace of weeds to the life and living of the human population all over the world with particular reference to India.
2211

PANJE, R. R
1933 *Saccharum spontaneum* L., a comparative study of the forms grown at the Imperial Sugarcane Station, Coimbatore. *Indian J. agric. Sci.* 3: 1013-1044.
2212

PANJE, R. R. *and* SREENIVASAN, K.
1957 Studies in *Saccharum spontaneum*, the geographical distribution of spikelet length. *Indian J. Sug. Res. & Dev.* 2(1): 1-8.
In the opinion of the authors the spikelet length and other floral characters of *Saccharum spontaneum* are partially correlated with geographical distribution. On this basis, geographical areas have been established.
2213

PANNOCHIA-LAJ, F.
1938 Embriologia e cariologia di *Lochnera rosea* L. *Nuovo G. bot. ital.* 45: 122-130.
2214

PANT, D. D.

1941 On the morphology and anatomy of the root system in *Asphodelus tenuifolius*. (Abstr.). *Proc. 28th Indian Sci. Cong.* iii: 160.
Describes the peculiarities in the root system of this species.
2215

1943 On the morphology and anatomy of the root system in *Asphodelus tenuifolius* Cavan. *J. Indian bot. Soc.* 22(1): 1-26.
2216

1949 Triassic plant remains from the Salt Range in the Punjab. *Nature*. 163: 814.
2217

1950 The microflora of some Gondwana tillites and other lower Gondwana beds.
Thesis for the degree of D. Phil. of the Allahabad University.
2218

PANT, D. N.

1951 Genus *Helicoceras* Linder, newly reported from India. *Curr. Sci.* 20: 212.
2219

PANTHAKI, D. *and* SANTAPAU, H.

1956 Name changes of a few Bombay plants. *J. Bombay nat. Hist. Soc.* 53(3): 499-500.
2220

PANTULU, J. V.

1940 A note on chromosome numbers of *Cassia*. *Curr. Sci.* 9(9): 416-417.
Cassia occidentalis L. and *Cassia auriculata* are described.
2221

1941 Some unusual megaspore tetrads in the *Leguminosae*. (Letter). *Curr. Sci.* 10(2): 175-176.
2222

1942 A contribution to the life history of *Desmodium gangeticum* Dc. *J. Indian bot. Soc.* 21: 137.
2223

1942 Chromosome numbers of some *Caesalpiniaceae*. (Letter). *Curr. Sci.* 11(4): 152-153.
This note places on record the chromosome numbers shown within brackets, of eight species of *Caesalpiniaceae*, namely, *Bauhinia acuminata* (14). *B. purpurea* L. (14), *Parkinsonia aculeata* L. (14), *Caesalpinia bonducella* Flem. (12), *Cassia glauca* Lamk. (14), *C. glauca* var. *suffruticosa* Koenig. (28), *Cassia marginata* Roxb. (14), *C. siamea* Lamk. (14) and *C. obtusifolia* L. (13). From cytological evidence and from the differences in the morphology of chromosome, specific upgrading of some hitherto regarded varieties is also suggested.
2224

1943 Further chromosome numbers in the *Caesalpiniaceae*. *Curr. Sci.* 12(10): 274.
Chromosome numbers of *Amherstia nobilis* Wall., *Saraca indica* Linn. and *Brownea hybrida* have been recorded.
2225

1945 Studies in the *Caesalpiniaceae;* a contribution to the embryology of the genus *Cassia*. *J. Indian bot. Soc.* 24(1): 10-24.
2226

1946 Chromosome number in *Cassia sophera* Linn. (Letter). *Curr. Sci.* 15(3): 77.
The haploid number is n = 14. Differs from Kawakami's count of 12, which is not

correct. Basic number in the genus *Cassia* is 7

2227

1946 Chromosome number of *Cassia fistula*. (Letter). *Curr. Sci.* 15(9): 255.
14 chromosomes have been found by the writer in this species, whereas Tischler recorded n = 12 for this species. However 14 is in conformity with the number found out for other species of *Cassia*.

2228

PARANDEKAR, S. A.

1950 Abnormal flowers of *Melia azaderach* L. *J. Univ. Bombay*. (n.s.). B. 19(3): 32-34.

2229

1950 Two interesting abnormalities in the common Indian corn, *Zea mays* L. *J. Bombay nat Hist. Soc.* 49: 573-574.

2230

PARANDEKAR, S. A. *and* AJREKAR, S. L.

1932 Observations on *Puccinia thwaitesii* Berk. *J. Indian bot. Soc.* 11: 127-131.
Germination studies and inoculation experiments with the teleutospores of *Puccinia thwaitesii* on *Justicia gendarussa* are reported. These show that this fungus is both on lepto and microform, *i.e.* the teleutospores require no resting period to germinate and the other spore forms are omitted from its life history.

2231

PARASARA

Krishipadhati.
Manuscript. India office Library no. 3168 and 1274A.
A manual of agriculture in the Sanskrit language and in the Devanagari script.

2232

PARIHAR, N. S.

1956 An introduction to embryophyta. Allahabad, Central Book Depot. -v.
Contents: v. 1—Bryophyta; v. 2—Pteridophyta.

2233

PARIJA, P.

1928 Analytic studies in plant respiration. (Abstr.). *Proc. 15th Indian Sci. Cong.* iii: 103.

2234

1930 Some aspects of respiration in higher plants. *Proc. 17th Indian Sci. Cong.* [ ]: 265-276.
Presidential address, Botany Section, 17th Indian Science Congress, Allahabad.

2235

1931 The law of modifications (Physiological, general). *J. Indian bot. Soc.* 10: 63.

2236

1943 On the pre-sowing treatment and phasic development. *Curr. Sci.* 12: 88.

2237

PARIJA, P. *and* MALLIK, P.

1936 The mechanism of the bursting of the fruits of *Impatiens balsamina* L. *J. Indian bot. Soc* 15: 59.

2238

1936 The formation of cuticle in relation to external conditions. *J. Indian bot. Soc.* 15: 63.

2239

1940 Nature of reserve food in seeds and their resistance to high temperature. *J. Indian bot Soc.* 19: 223.

2240

PARIJA, P. *and* MISRA, P.

1933 The root thorn of *Bridelia pubescens* Kz. *J. Indian bot. Soc.* 12: 227.

2241

PARIJA, P. *and* PARIJA, B.
1946 Algal succession on a rocky island, named Charaiguda, in the Chilka lake. *J. Indian bot. Soc.* 25: 375-379.
2242

PARIJA, P. *and* PILLAY, K. P.
1944 Inducing flood-resistance in paddy in pre-sowing treatment. *Curr Sci.* 13: 183.
2243

PARIJA, P. *and* SAMANTRAI, B.
1939 March of transpiration of a leaf since its measurable stage to its fall. *J. Indian bot. Soc.* 18: 65.
2244

PARIJA, P. *and* SARAN, A. B.
1932 Variability of the osmotic strength of the sap of *Cuscuta reflexa* Roxb. *J. Indian bot. Soc.* 11: 271.
2245

PARIS, E. G.
1893-97 Index bryologicus, sive, enumeratio muscorum hucusque cognitorum adjunctis synonymia distributionque geographica locupletissimus. *Act. Soc. linn. Bordeaux.* 46: 1-334; 49: 1-384; 50: 1-256; 51: 1-416.
Enumeration of all known mosses of the world, with synonymy and geographical distribution.
2246

PARISH, C.
1856 Letters on the botany of Moulmein. *Hk. J. Bot.* 8: 103.
2247

1859 Itinerary with memoranda through the southerly portions of the district of Amherst, by Major S. R. Tickella and copious botanical notes by Rev. C. Parish. *J. Asiat. Soc. Bengal.* 28: 421-456.
2248

1859 Botanical notes made during a month's tour from Moulmein to the three pagodas and in Shan States in the month of Feby. 1859. *J. Asiat. Soc. Bengal.* 28: 457-471.
2249

1882 The Andaman Islands. *Proc. R. geogr. Soc.* [ ]: 6.
2250

PARKER, R. N.
1912 Notes on cacti in N.-W. India. *J. Bombay nat. Hist. Soc.* 21: 1095.
2251

1912 New Indian species of forest importance. *Indian For.* 38: 404-410.
108 new species have been enumerated.
2252

1913 *Eucalyptus* in N.-W. India. *Indian For.* 39: 81.
2253

1913 *Prosopis juliflora* Dc. *Indian For.* 39: 320.
2254

1918 A forest flora for the Punjab with Hazara and Delhi. Lahore, Supdt., Govt. Printing. xxxv, 577p.
2255

1920 N.-W. Himalayan *Astragali* of the subgenus *Aegacantha*. *Kew Bull.* [ ]: 266.
2256

1924 Botanical notes on some plants of the Kali Valley, with a new species, *Leptodermis riparia*. *Indian For.* 50: 397.
2257

1925 The genus *Sonneratia*. *Indian For.* 51: 505.
2258

1925-26 The cultivation of conifers in northern India. *Indian For.* 50: 616; 51: 4, 60.
2259

PARKER, R. N.—*contd.*

1927 The Himalayan Silver firs and spruces. *Indian For.* 53: 683-693.
2260

1929 Indian climbing *Acacias* of the *Caesia* group. *Indian For.* 55: 325-333.
2261

1929 The Indian species of *Nyssa*. *Indian For.* 55: 6.
2262

1929 Two anonaceous trees from Tavoy, Burma: *Polyalthia crassa* Parker and *Sageraea bracteolata* Parker. *Indian For.* 55: 375.
2263

1929 *Leucaena glauca*. *Indian For.* 55: 641.
2264

1930 Three new *Spiraeas* from the N.-W. Himalaya. *Indian For.* 56: 105.
2265

1930 An *Albizzia* hybrid, *A. gamblei* Prain. *Indian For.* 56: 297.
2266

1930 *Saccharum arundinaceum* Retz. and *Saccharum procerum* Roxb. *Indian For.* 56: 339.
2267

1931 The herbarium of the Forest Research Institute, Dehra Dun. *For. Bull.* no. 73.
2268

1931 A little known Burmese bamboo, *Gigantochloa apus* Kz. *Indian For.* 57: 108.
2269

1931 *Piptanthus* in the Himalaya. *Indian For.* 57: 381.
2270

1931 Name changes in important Indian trees. *Indian For.* 57: 485-490.
2271

1931 A list of plants collected in west Nepal. *For. Bull.* no. 76.
2272

1932 A Burmese climbing bamboo, *Klemachloa* gen. nov.; *K. delinens* sp. nov. *Indian For.* 58: 7.
2273

1932 *Casuarina* root nodules. *Indian For.* 58: 362.
2274

1932 *Cryptocarya amygdalina* Nees and *C. floribunda* Nees. *Indian For.* 58: 437.
2275

1932 The genus *Cymbopogon* in north-west India. *Indian For.* 58: 687.
2276

1933 Common Indian trees and how to know them; illus. by Ganga Singh. Delhi, Manager of Publications. 2p.l., 46p. *Cover-title*: Forty trees common in India.
2277

1933 *Vitis rugosa* Wall. and *Vitis* spp. *Indian For.* 59: 61.
2278

1933 Conifers in cultivation, by W. Dallimore — a review. *Indian For.* 59: 94.
2279

1933 *Leguminosae* and root nodules. *Indian For.* 59: 232.
2280

1937 *Ulmus villosa* Brandis and other elms in the N.-W. Himalaya. *Indian For.* 63: 729
2281

1938 Collett's Flora Simlensis. *Indian For.* 64: 3-7. Contains additions to Collett's work.
2282

PARKER, R. N.—*contd.*

1938 Two natural hybrids: *Quercus incana* × *dilatata* and *Opuntia dillenii* × *stricta* from Dalhousie and Kangra. *Indian For.* 65(9): 585-586.

2283

PARKER, R. N. *and*
PARKINSON, C. E.

Illustrations of Indian forest plants. *Indian For. Rec.* Bot. Scries. 20.

Describes *Dipterocarpus macrocarpus, Anisoptera oblonga, Scaphula glabra* Parker, *Hopea wightiana* and *Hopea glabra* W. & A.

2284

PARKIN, J.

1899 Some observations bearing on the functions of latex. *Ann. Bot. Lond.* 13: 620-622; 14: 193-214.

2285

1900 Fungi found in Ceylon upon scales of insects. *Rept. Brit. Assn*

2286

1904 Fungi parasitic upon scale of insects (*Coccideae* and *Allurodidue*); a general account with special reference to Ceylon forms. *Ann. R. bot. Gdn. Peradeniya.* 3: 11-78.

2287

PARKIN, J. *ana*
PEARSON, H. H. W.

1903 The botany of the Ceylon patanas. *J. Linn. Soc.* 35: 430-463.

2288

PARKINSON, C. E.

1913 A note on Burmese *Lagerstroemias. Burma For. Bull.* 23: 1-17.

2289

1923 A forest flora of the Andaman Islands, an account of the trees, shrubs and principal climbers of the islands. Simla, Supdt., Govt. Central Press. v, v, xiii, 325p.

2290

1932 A note on the Burmese species of the genus *Dipterocarpus. Burma For. Bull.* 27: 1-35.

2291

1933 A new Burmese bamboo: *Dendrochloa* gen. nov. and *D. distans* sp. nov. *Indian For.* 59: 707.

2292

1934 The Indian species of *Xylocarpus. Indian For.* 60: 136-143

2293

1934 On a botanical visit to Malayit peak, with a sketch of the vegetation of the Tenasserim Hill tops. *Indian For.* 60: 256.

2294

1935 On *Melocanna humilis* Kz *Indian For.* 61: 325-327.

This reed-like bamboo was first discovered by S. Kurz in the village of Wanet in the Paunglin valley of the Pegu Yomas in 1871. Kurz described the plant from leaves and sheaths only. Though Parkinson collected it more than 50 years after Kurz, he had no better luck than Kurz regarding flowers and fruits. But *M. humilis* is a later homonym as it was already occupied by another plant. So Parkinson has renamed it as *M. arundina* Parkinson on account of its reed-like character.

2295

1935 On some Indian and Burmese *Dillenias; D. andamanica* Parkinson. *Indian For.* 61: 447-453.
A key to the three species under dispute is given along with the distribution of each species. The new species is illustrated.
2296

1937 Indian *Terminalias* of the section *Pentaptera*. *Indian For. Rec.* (n.s.). 1(1): 1-27.
Terminalia arjuna, T. alata, T. crenulata and *T. coriacea* are discussed.
2297

1937 Illustrations of Indian forest plants. *Indian For. Rec.* (n.s.). 1(2): 29-44.
Deals with *Hopea helferi* (Dyer) Brandis, *H. oblongifolia* Dyer, *Shorea floribunda* Wall., *S. assamica* Dyer and *S. sericeiflora* Fischer & Hutchinson.
2298

PARKINSON, C E. *and* RAIZADA, M B.

1930 New Indian species of forest importance. *Indian For.* 56: 426-440.
2299

1933 Indian *Wendlandias*. *Indian For.* 59: 349.
2300

PARLATORE, F.

1866 Le specie dei cotoni. Firenze, Stamperia reale. 2v.
Contents: v. 1—Text; v. 2—Plates.
2301

PARMENTIER, P.

1895 Histoire des *Magnoliacees*. *Bull. sci. Fr. Belg.* 27: 159-331
2302

PARTHA, T. S. *and* GANESAN, R.

1956 Ecological studies in the undergrowth of shade trees. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 276-277.
A study of the floristic composition of the undergrowth found in the shade of 22 different species of trees in and around Annamalai University campus. 56 species were recorded as constituents of the undergrowth formation and they are enumerated.
2303

PARTHASARATHY, N.

1939 Cytological studies in *Oryzeae* and *Phalarideae;* cytological studies in *Phalarideae*. *Ann. Bot. Lond.* (n.s.). 3: 43-46.
2304

1946 The probable origin of north Indian sugarcanes. *M.O.P. Iyengar Comm. Vol.* p. 123-150.
2305

1946 Chromosome numbers in *Bambuseae*. (Letter). *Curr. Sci.* 15(8): 233-234.
Dendrocalamus strictus has n=35 and 2n=70. *Bambusa arundinacea* has also n=35 and 2n=70.
2306

1948 Origin of noble canes (*Saccharum officinarum*). *Nature.* 161: 608.
2307

1951 Some cytogenetical aspects of the sugarcane. *Indian J. Genet.* 11: 63-66.
2308

PARTHASARATHY, N. *and* SUBBA RAO, K. S.

1946 Chromosome survey of *Saccharum spontaneum* L. *Indian J. Genet.* 6(1).
2309

1948 Chromosome numbers of some geographical forms of *Sclerostachya fusca*. *Indian J. Genet.* 8: 103-104.
2310

PARTHASARATHY IYENGAR, M. O.

1915 Observations on the defoliation of some Madras trees. *J. Asiat. Soc. Bengal.* (n.s.). 11: 19.

2311

1919. A general consideration of some aspects of the freshwater algal flora of Madras. *Proc. 6th Indian Sci. Cong.* iii: 169-170.

2312

1920 Observations on the *Volvocaceae* of Madras. *J. Indian Bot.* 1(9 & 10): 330-336.

2313

1923 Note on some attached forms of *Zygnemaceae*. *J. Indian Bot.* 3: 192-200.

2314

1923 Two instances of short cuts by animals to the nectaries of flowers. *J. Indian Bot.* 3: 285.

2315

1923 Notes on a bulbiferous Coconut tree from Malabar. *J. Indian Bot.* 3: 315-317.

2316

1925 Note on two species of *Botrydium* from India. *J. Indian bot. Soc.* 4: 193-201.

2317

1925 *Hydrodictyon indicum*, a new species from Madras. *J. Indian bot. Soc.* 4: 315-317.

2318

1927 Flora of the Krusadai Island (Pamban). *Bull. Madras Govt. Mus.* 1: 185-188.
Describes algal flora of the island.

2319

1928 Algal work in India. *Proc. 15th Indian Sci. Cong.* [ ]: 207-222.
Presidential Address to the section of Botany. A brief survey of the lines of advances made in algal work in other countries and the lines of research that can be undertaken in this country. Describes the history of the knowledge of Indian algae from 1834 and onwards and the various contributions made to the subject of Indian algae. A bibliography of algal literature is given at the end of the paper.

2320

1928 Notes on some species of *Debarya* from south India. (Abstr.). *Proc. 15th Indian Sci. Cong.* iii(v): 225.
Five species of *Debarya* collected by the author from different parts of south India (Jog falls in Mysore and Periyar in Travancore).

2321

1928 On sub-aerial attached species of *Mougeotia* from Travancore. (Abstr.). *Proc. 15th Indian Sci. Cong.* iii(v): 226.

2322

1928 On two green algae (*Protosiphon* and *Cylindrocystis*) growing on white-washed walls in Madras. (Abstr.). *Proc. 15th Indian Sci. Cong.* iii(v): 233.
This is a rare occurrence of an alga growing plentifully on Calcium carbonate.

2323

1932 Two little known genera of green algae: *Tetrasporidium* and *Ecballocystis*. *Ann. Bot. Lond.* 46: 19.

2324

PARTHASARATHY IYENGAR, M. O.—*contd.*

1932 Studies in Indian *Zygnemales*. *Rev. algol.* 6: 263-273.
2325

1932 *Fritschiella*, a new terrestrial member of the *Chaetophoraceae*. *New Phytol.* 31(5): 329-335.
2326

1933 *Ecballocystopsis indica* gen. et sp. nov., a new member of *Chlorodendrales*. *Ann. Bot. Lond.* 47: 21-25.
2327

1933 Contribution to the colonial *Volvocales* of S. India. *J. Linn. Soc.* 49: 323-373.
2328

1933 On the formation of gametes in *Caulerpa*. *J. Indian bot. Soc.* 12(3): 325.
2329

1933 On an Indian form of *Protosiphon botryoides* Klebs. *Arch. Protistenk.* 79(2).
2330

1936 *Characiosiphon*, a new member of the *Chlorophyceae*—a preliminary note. *J. Indian bot. Soc.* 15(5): 313-318.
2331

1937 Fertilisation in *Eudorina elegans* Ehrenb. *J. Indian bot. Soc.* 16: 111-118.
2332

1938 Structure and life history of *Pseudovalonia forbesii* (Harv.) Iyengar. *J. Indian bot. Soc.* 17(2 & 3): 191.
2333

1938 A note on two interesting south Indian marine algae; *Pseudovalonia forbesii* (Harv.) Iyengar comb. nov. and *Pseudobryopsis pambanensis* sp. nov. (Abstr.). *Proc. 25th Indian Sci. Cong.* iii(v): 132-133.
Living material of both of these were brought from Pamban and grown at Madras in the laboratory. Their life history is studied in detail.
2334

1938 A note on *Physocytium* from south India. (Abstr.). *Proc. 25th Indian Sci. Cong.* iii(v): 133.
Physocytium confervicolum Borzi, first described from Italy in 1883, was collected in a stream at Vaiyampatti near Trichinopoly in 1936 by the author. Fritsch suggested its inclusion in the *Chlamydomonadaceae* and the author has accepted the suggestion.
2335

1939 Algal problems peculiar to the tropics with special reference to India. *Proc. 25th Indian Sci. Cong.* iv: 1-16.
Discusses the subject under (1) algal ecology of lakes and larger expanses of water, (2) the algal flora of temporary waters and their succession, (3) pieces of water with permanent water-blooms caused by species of *Microcystis*, (4) paddy-field algae and Nitrogen fixation, (5) algae of estuarine regions, (6) algae in relation to aquatic animals, and (7) algae and mosquito larvae.
2336

1939 On the life history of *Cylindrocapsa geminella* Wolle. *Curr. Sci.* 8(5): 216-217.
2337

PARTHASARATHY IYENGAR, M. O.—*contd.*

1940 On the formation of gametes in *Caulerpa*. *J. Indian bot. Soc.* 18(4-6): 191-194.

2338

1951 Chlorophyta. *G. M. Smith's Manual of phycology*. p. 21-27.

2339

1954 On the asexual and sexual reproduction of *Characiosiphon rivularis* Iyengar. *J. Indian bot. Soc.* 33: 148-151.

2340

1957 On the structure and life-history of *Cylindrocapsopsis indica* gen. et sp. nov., a new member of the *Cylindrocapsaceae*. *J. Madras Univ.* B. 27(1): 49-70.

2341

1957 Algology (1939-1950). *Progress of Science in India, Section 6, Botany*. p. 229-251. Reviews the algal researches in India during 1939 to 1950, under the heads: systematic studies (Chlorophyta, Cyanophyta, Chrysophyta, Protomastigineae, Phaeophyta, Rhodophyta), general morphology, cytology and life history, physiology and ecology and fossil algae. The author has also given summaries of (1) Bharadwaja's presidential address on the study of *Myxophyceae* and (2) the discussion on the algal problems peculiar to the tropics, etc., with special reference to Prof. Fritsch's remarks on the subject.

2342

PARTHASARATHY IYENGAR, M. O. *and* BALAKRISHNAN, M. S.

1949-50 Morphology and cytology of *Polysiphonia platycarpa* *Proc. Indian Acad. Sci.* B. 29(3): 105-108; 31(3): 135-161.
This alga occurs in plenty in the estuarine portion of the River Adyar at Madras and in the back-waters at Ennore, north of Madras. It was, therefore, taken up for a detailed investigation. The species possesses several interesting features.

2343

1956 On sexual reproduction in a new species of *Golenkinia*. *J. Indian bot. Soc.* 35: 371-373.

2344

PARTHASARATHY IYENGAR, M. O. *and* DESIKACHARY, T. V.

1944 A systematic account of some marine *Myxophyceae* of the south Indian coast. *J. Madras Univ.* 16: 37-68.
A few forms from Karwar on the Bombay coast and Galle in Ceylon are also included in this account. 32 forms were recorded representing 18 genera, 28 species.

2345

1946 On *Johannesbaptistia pellucida* (Dickie) Taylor and Drouet. from Madras. *J. Indian bot. Soc.* 25(3): 117-121.

2346

1946 *Mastigocladopsis jogensis* gen. et sp. nov., a new member of the *Stigonemataceae*. *Proc. Indian Acad. Sci.* B. 24(2): 55-59.
A blue green alga with many interesting features, appearing new, was collected from a stream near Jog Falls in the Shimoga Dt., Mysore State. It is described as *Mastigocladopsis jogensis* sp. nov.

2347

1953 On the mode of branching in a south Indian form of *Brachytrichia balani* (Ll.) B. & F. (Abstr.). *Proc. 40th Indian Sci. Cong.* iii: 66-67.
2348

1953 On the mode of branching in some members of the *Stigonematales*. (Abstr.). *Proc. 40th Indian Sci. Cong.* iii: 67.
2349

1953 A general consideration of the branching in the *Myxophyceae*. (Abstr.). *Proc. 40th Indian Sci. Cong.* iii: 67-68.
2350

1953 Occurrence of three-pored heterocysts in *Brachytrichia balani* (Lloyd) Born & Flah. *Curr. Sci.* 22(6): 180-181.
Record the occurrence of three-pored heterocysts in a specimen of *Brachytrichia balani* collected from Pamban, S. India.
2351

PARTHASARATHY IYENGAR, M. O. *and* DORAISWAMI, S.

1940 On the morphology and cytology of *Eudorina indica* Iyengar. *J. Indian bot. Soc.* 19(1-3): 113-139.
2352

PARTHASARATHY IYENGAR, M. O. *and* IYENGAR, M. O. T.

1932 On a *Characium* growing on Anapheles larvae. *New Phytol.* 31(1): 66-69.
2353

PARTHASARATHY IYENGAR, M. O. *and* KANTHAMMA, S.

1940 On the life-history of *Characium terrestris* sp. nov.
Thesis submitted to the Madras University.
New species resulted from some cultures of soil algae from Madras.
2354

1940 On *Hormidiella*, a new member of the *Ulotrichaceae*. *J. Indian bot. Soc.* 19: 157-167.
2355

1940 A note on *Ulothrichopsis viridis* gen. & sp. nov. *J. Indian bot. Soc.* 19: 167-170.
In 1941, this name was changed to *Heterothrichopsis* as *Ulothrichopsis* was already occupied by another alga described in 1937.
2356

1941 Notes on *Heterothrichopsis viridis* gen. & sp. nov. *J. Indian bot. Soc.* 20(1 & 2): 105.
This is the new name given to *Ulothrichopsis* as it was already preoccupied by another alga.
2357

PARTHASARATHY IYENGAR, M. O. *and* PHILIPOSE, M. T.

1956 On *Gloeotilopsis planctonica* gen. et. sp. nov. *J. Indian bot. Soc.* 35: 365-370.
Isolated from cultures of Silt-algae from a pond in Madras.
2358

PARTHASARATHY IYENGAR, M. O., RAMAKRISHNAN, K. *and* SUBRAHMANYAM, C. V.

1955 New species of *Sapromyces* from south India. *J. Indian bot. Soc.* 34: 140-145.
2359

PARTHASARATHY IYENGAR, M. O. *and* RAMANATHAN, K. R.

1940 On the reproduction in *Anadyomene stellata* (Wulf.) Ag. *J. Indian bot. Soc.* 19: 175-176.
In this paper, the authors have recorded isomorphic

PARTHASARATHY IYENGAR, M. O. *and* RAMANATHAN, K. R.—*contd.*

alternation of generations. This alga was collected in Krusadai Island near Pamban. It was either asexual producing quadriflagellate oospores or sexual forming biflagellate gametes. This alga is dioecious. The systematic position presents an interesting problem.

2360

1940 *Cladospongia*, a new member of the *Craspedomonadaceae* from Madras. *J. Indian bot. Soc.* 19(5-6): 241-245.
This new alga is called *C. elegans* sp. nov. This is a colony forming alga, is highly organised and shows intercellular protoplasmic connections, somewhat similar to what is seen in *Volvox*. This genus shows the highest expression of colonial organization so far known among the *Protomastigineae*.

2361

1940 On sexual reproduction in a *Dictyosphaerium*. *J. Indian bot. Soc.* 18: 195-200.
Dictyosphaerium indicum sp. nov. is recorded from some rain pools in Madras.

2362

1941 Life history and cytology of *Microdictyon tenuius* (Ag.) Decsne. *J. Indian bot. Soc.* 20(3): 157-159.
Isomorphic alternation of generations is met with in this alga. It was also collected at Krusadai Island near Pamban. It is either asexual producing quadriflagellate zoospores or sexual producing biflagellate gametes. The gamete producing forms are dioecious. This alga presents interesting problems regarding its classification and systematic position.

2363

1942 *Triplastrum*—new member of the *Desmidiaceae* from south India. *J. Indian bot. Soc.* 21(3-4): 225-229.
This is a new monotypic genus of the *Desmidiaceae* from a paddy field near Madras.

2364

1951 On the structure and reproduction of *Pleodorina sphaerica* Iyengar. *Phytomorph.* 1(3 & 4): 215-224.

2365

1954 On a new species of *Halicystis* from S. India. *J. Indian bot. Soc.* 33: 446-452.

2366

PARTHASARATHY IYENGAR, M. O. *and* SUBRAHMANYAM, R.

1943 Fossil diatoms from the Karewa beds of Kashmir. *Proc. nat. Acad. Sci. India.* B 13(4): 225-236.
Seventeen forms representing ten genera, thirteen species, two varieties, one new variety and one new form are described. The material was collected in 1936 by Gautam Kohli at 9,000 feet in Gulmarg.

2367

1944 On reduction division and auxo-spore formation in *Cyclotella meneghiniana* Kutz. *J. Indian bot. Soc.* 23: 125-152.
A preliminary note on the above subject was published in 1942 in *J. Indian bot. Soc.* 21: 231-237. They showed that the vegetative phase in

Cyclotella was diploid as in the Pennales. Authors' observations agree with those of Persidsky made on *Melosira varians* in 1935 and with those of Cholnoky made on *M. arenaria* in 1933. The present authors observed all the characteristic stages of the heterotypic division.

2368

1944 On the structure and development of spines or setae of some centric diatoms. *Proc. nat Acad. Sci. India.* B. 14: 114-124.
The structure and development of the centrifugally developed spines or setae on the wall of some planktonic centric diatoms are dealt with in some detail.

2369

PARTHASARATHY IYENGAR, M. O. *and* VENKATARAMAN, G.

1951 The ecology and seasonal succession of the algal flora of the River Cooum at Madras with special reference to the *Diatomaceae*. *J. Madras Univ.* B. 21(1): 140-192.

2370

PARTHASARATHY IYENGAR, M. O. *and* VIMALA BAI, B.

1941 Desmids from Kodaikanal, south India. *J. Indian bot. Soc.* 20: 73-103.
Describes 35 forms of Desmids from the hill station of Kodaikanal in the Pulneys (7,000-8,000 ft. high), representing 13 genera.

2371

PARUKUTTY, P. R.

1939 On a collection of algae from Assam. *Proc. Indian Acad. Sci.* B. 9(5): 229.

2372

1940 The *Myxophyceae* of the Travancore State, India. *Proc. Indian Acad. Sci.* B. 11(3): 117-131.
Deals with 51 forms of the *Myxophyceae* collected in May and June, 1938 from central and southern parts of the State.

2373

PARULEKAR, N. K.

1955 Stem anatomy of *Convolvulaceae*. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 229.

2374

PATANKAR, TARA BAI V.

1956 Further contribution to the embryology of *Drosera burmanni* Vahl. *Proc. Indian Acad. Sci.* B. 43(3): 161-171.
To fill in the gaps in the works on the species by earlier workers, these observations have been made. The development of the embryo is of the *Polygonum* type. The flowers are cleistogamous and fertilisation is porogamous. Double fertilisation has been observed. The development of the embryo is similar to that described by Souiges for *D. rotundifolia*.

2375

PATEL, G. I.

1952 Chromosome basis of dioecism in *Trichosanthes dioica* Roxb. (Lctter). *Curr Sci.* 21(12): 343-344.
Records the unusual behaviour of one pair of chromosomes at metaphase and anaphase, which suggests that this pair, in spite of similarity of morphology, is physiologically different from the rest of the bivalents and presumably possess sex determining genes.

2376

PATEL, J. S.
1937 The coconut—a monograph. Madras, Supdt., Govt. Press. 2 p.l., vii, 313 p.
2377

PATEL, J. S. *and* GHOSH, S. S.
1943 Anatomy of retted Jute. Calcutta, Indian Central Jute Committee. (Agricultural Research Memoir, no. 2).
2378

PATEL, J. S., JOHN, C. M. *and* SESHADRI, C. R.
1936 The inheritance of characters in the groundnut, *Arachis hypogaea*. *Proc. Indian Acad Sci.* B. 3: 214-233.
2379

PATEL, J. S. *and* NARAYANA, G. V.
1935 A rare instance of poly embryony in *Arachis hypogaea* Willd. *Curr. Sci.* 4(1): 32.
2380

1937 Chromosome numbers in some economic flowering plants *Curr. Sci.* 5(9): 479.
Chromosome numbers of *Pongamia glabra, Arachis hypogaea, Moringa pterygosperma, Sansevieria roxburghiana, Phoenix farinifera* and *Amorphophallus campanulatus* have been given.
2381

PATEL, M. K.
1948 *Xanthomonas uppalii* sp. nov., pathogenic on *Ipomoea muricata*. *Indian Phytopath.* 1: 67-69.
2382

1948 *Bremia* sp. on *Arthraxon lancifolius* Hoch. in India. *Indian Phytopath.* 1: 104-106.
2383

1949 Production of oospores by *Sclerospora sorghi* on maize. *Indian Phytopath.* 2: 52-57.
2384

PATEL, M. K., KULKARNI, Y. S. *and* DHANDE, G. W.
1949 A new *Synchytrium* on *Phaseolus mungo*. *Curr. Sci.* 18: 171.
The new species is named *S. phaseoli* Patel, Kulkarni and Dhande sp. nov.
2385

PATEL, M. M.
1949 Some parasitic fungi collected in the vicinity of Banaras. *Indian Phytopath.* 2: 190-192.
2386

PATEL, NARAYAN G.
1953 Host plants, distribution and abundance of Thrips (Thysanoptera) of Bombay State. *J. Bombay nat. Hist. Soc.* 51(3): 597-607.
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1953 *Ophioglossum* from Baroda, occurrence and teratology. *J.M.S. Univ. Baroda.* 2(2): 135-141.
4 species of *Ophioglossum* have been collected and described. They are *O. fibrosum* Schum., *O. vulgatum* L., *O. reticulatum* L. and *O. nudicaule* L.

2564

PHATAK, V. G. *and* JOSHI, B. B.

1955. The flora of Pavagadh Hills, eastern Gujarat; a short survey of the hill from July 1954 to January 1955. *J.M.S. Univ. Baroda.* 4(2): 73-85.
Pavagadh Hill, a place of religious importance in eastern Gujarat, is situated at a distance of 29 miles to the north east of Baroda. An account of the topography, climate and the vegetational peculiarities or types is given, together with a list of 245 species of angiosperms, collected during a number of excursional trips to the hill in 1953.

2565

1955 A brief account of the flora of the University campus, Baroda. *J.M.S. Univ. Baroda.* 4(2): 125-158.
336 species of plants have been enumerated as found growing in this area, either wild or under cultivation or both.

2566

1956 A brief account of the flora of the University campus (Monsoon observations of the University area). *J.M.S. Univ. Baroda.* 5(2): 45-72.
Gives the results of a survey

made in the area during monsoon season. This enumeration is a continuation of the previous work. 303 species belonging to families from *Ranunculaceae* to *Graminae* are enumerated, with short notes on habitat and times of fruiting.

2567

1958 *Sericocalyx scaber* (Nees) Bremek. *J. Bombay nat. Hist. Soc.* 55(2): 383-385.
Strobilanthes scaber Nees, has been renamed as *Sericocalyx scaber* (Nees) Bremek.

2568

PHATAK, V. G. *and* OZA, G. M.

1957 Studies on the weeds of Gujarat; observations on the weeds of the M. S. University campus, Baroda with a map. *J.M.S. Univ. Baroda.* 6(2): 93-107.
This paper, first in the series, puts on record all the possible data regarding the observations on the weeds occurring in the M.S. University campus, Baroda. This has been prepared from field notes, taken on the spot during frequent visits to the different areas in all the season during 1954-56. 131 species are dealt with.

2569

PHATAK, V. G. *and* SATAKOPAN, SARITHA

1957 Plant types of the ponds and of the plains around Baroda; pond vegetation at Harni (Baroda). *J.M.S. Univ. Baroda.* 6(2): 11-48.
The aquatic vegetation of the two ponds at the village Harni near Baroda, has been studied with particular reference to the phenology of the angiosperms and a general reference to the cryptogams found. A list of plants collected is given. A tabulated list of 179 plants with notes on frequency is also given.

2570

PHATAK, V. G. *and* SAVANT, S. D.

1955 Embryological studies in *Exphorbiaceae;* the female gametophyte of *Jatropha podagrica* Hook. *J.M.S. Univ. Baroda.* 4(2): 112-118.
Deals with the development of ovule and embryosac of *Jatropha podagrica* Hook. cultivated in Botanical garden of the University.

2571

PHATAK, V. M.

1926 Medicinal plants of Gwalior. Gwalior, printed at the Alijah Darbar Press. 4, 3, xi, 322, xiv p.

2572

PHILIPOSE, M. T.

1946 A note on *Pseudulvella americana* (Snow) Wille growing in Madras. *M.O.P. Iyengar Comm. Vol.* p. 321-325.
This was isolated from some silt cultures of algae from a pond in Madras. A new variety, var. *indica* was recorded from the same cultures.

2573

1953 Contribution to our knowledge of Indian algae; *Chrysophyceae*—on the occurrence of *Mallomonas* Party, *Synura* Ehr. and *Dinobryon* Ehr. in India. *Proc. Indian Acad. Sci.* B. 37(6): 232-248.

2574

1958 Contribution to our knowledge of Indian algae; *Volvocales,* unicellular forms. *Proc. Indian Acad. Sci.* B. 47(5): 287-311.
An account of 18 forms of unicellular *Volvocales,* col-

PHILIPOSE, M. T.—*contd.*
lected from shallow confined waters of W. Bengal and Orissa is given. A few of these occur in Andhra also.
2575

PHILLIPPI
1847 Bericht uber die Flora der Nikobaren. *Monatsb. Ges. Erdk. Ber.* 4.
2576

PHILLIPS, JOHN
1935 Some problems presented by South African grasses and grass communities. *J. S. Afr. Bot.* 2: 47-63.
Contains references to Indian grasses which are common both to Africa and India.
2577

PHILLIPSON, W. R.
1934 The morphology of the lemma in grasses. *New Phytol* 33(5): 359-371.
2578

PHILLIS, E. *and* MASON, T. G.
1933 Studies on the transport of carbohydrates on the Cotton plant; the polar distribution of sugar in the foliar leaf. *Ann bot. Lond.* 47: 585.
2579

PIA, J.
1930 Upper triassic fossils from the Burma-Siamese Frontier: a new *Dasycladaceae, Holosporella siamensis* nov. gen. & nov. sp. with a description of the allied genus *Aciculella*. *Rec. geol. Surv. India.* 63(1): 177-181.
2580

PIA, J., RAO, S. R. N. *and* RAO, K. S.
1937 *Dasycladaceen* aus Zwischenlagen des Dekkantrapps bei Rajahmundry in Sudindien. *S. B. Akad. Wiss. Wien.* [ ]: 227-234.
2581

PICHON, M.
1947 Classification des *Apocynees;* genre *Rauwolfia. Bull. Soc. bot. Fr.* 94: 31-39.
2582

PICKERING, C.
1879 Chronological history of plants; man's record of his own existence illustrated through their names, uses and companionship. Boston, Little, Brown & Co. xvi, 1222p.
2583

PICKERING, S.
1917 The effect of one plant upon another. *Ann. bot. Lond.* 31: 181.
2584

PIDDINGTON, H.
1832 An English index to the plants of India. Calcutta, Thacker & Co. viii, 235p.
Alphabetical list of the then known Indian plants with their vernacular names.
2585

1836 Useful tables forming an appendix to the Journal of the Asiatic Society; Part 3rd, a tabular view of the generic characters in Roxburgh's Flora Indica. xi, 156p.
Purports to serve as a convenient means of reference to Roxburgh's *Flora Indica*. Generic characters of the *Cryptogameae* are also included.
2586

PIERRE, L.
1905 Plantes nouvelles de l'Asie tropicales. *Bull. Soc. bot. Fr.* 52: 490.
2587

PIJL, L. VANDER
1955 Some remarks on *Myrmecophytes. Phytomorph.* 5(2 & 3): 190-200.
2588

PILGER, R.

1903 *Taxaceae. Pflanzenreich.* 18: 1-24.
2589

1916 Die *Taxales. Mitt. dtsch. dendrol. Ges.* 25: 1-28.
2590

1924 Beitrage zur Kenntnis der Gattung *Plantago. Repert. nov. Spec. Regn. veg.* 20: 12-16.
2591

1926 Bermerkungen zu dem *Plantago*-arten des Herbars Dehra Dun. *Notizbl. bot. Gart. Berl.* 9: 1096.
Describes *Plantago aitchisonii* Pilger sp. nov.
2592

1928 Uber *Chamaeraphis* R. Br. *Notizbl. bot. Gart. Berl.* 10: 207-210.
Pseudoraphis aspera nov. comb. is described.
2593

1931 Die Gattung *Juniperus* L. *Mitt. dtsch. dendrol. Ges.* 43: 255-269.
2594

1937 *Plantaginaceae. Pflanzenreich.* 102: 1-406.
A monograph.
2595

1940 *Graminae* (Unterfamilie *Panicodeae*). *Pflanzenfam.* 14: 1-208.
2596

1943 Obituary notice on, by C. E. Hublord. *Kew Bull.* 1: 162.
2597

PILLAI, K. P.

1944 A short note on vernalization of gram (*Cicer arietinum* L.). *Curr. Sci.* 13: 185.
2598

PILLAI, S. K.

1941 Flora of Annamalainagar: *Ranunculaceae* to *Annonaceae*. *J. Annamalai Univ.* 11(1): 13-24.
Illustrated with black and white sketches. Prof. T. S. Raghavan has added a foreword to this.
2599

1955 Abnormalities in the flowers of *Dolichos lablab, vulgari* Savi. *Curr. Sci.* 24(5): 164-165.
Several abnormalities observed in the flowers of *Dolichos lablab-vulgaris* Savi at Pillani are recorded.
2600

PIONEER

1901 A year's botanical work in Madras. *Indian For.* 27: 266.
2601

PIPER, C. V.

1910 The Soya bean (*Glycine soja*): history, variety, uses, etc. *Bull. U. S. Bur. Pl. Ind.* 197: 1-84.
2602

1914 Five oriental species of beans. *Bull. U. S. Dept. Agric.* 119: 1-32.
Phaseolus calcaratus, P. mungo and *P. aconitifolius* have been described.
2603

1915 The Bonarist, Lablab or Hyacinth bean. *Bull. U. S. Dept. Agric.* 318: 1-15.
Treats about *Dolichos lablab* of India.
2604

1915 *Andropogon halepensis* and *Andropogon sorghum. Proc. biol. Soc. Wash.* 28: 25-43.
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PIPER, C. V.—*contd.*
1917. Notes on *Canavalia* with descriptions of new species. *Proc. biol. Soc. Wash.* 30: 174-178.
2606

PIPER, C. V. *and* MORSE, W. J.
1923 The Soya bean. New York, McGraw-Hill. xv, 329p.
2607

PISEK, A.
1923 Chromosomen Verhaltniss, Feduktion Stelling und Revision der Keimentwicklung der Mistel (*Viscum album*). *Jb. Miss. Bot.* 62.
2608

PISHAWIKAR, D. G. *and* SHAH, S. V
1946-47 A study of the oil from the seeds of *Swietenia mahagoni*. *J. Univ. Bombay.* 15(2): 17-20.
2609

PISO, WILLEM
1658 Gulielmi Pisonis . . . De Indiae utriusque re naturali et medica libri qvatvordecim, quorum contenta pagina sequens exhibit. Amstelaedami, apud L. et D. Elzevirios. 13p.l., 327, 39, 226p.
2610

PITARD, J.
1902 Rapports et classification des *Ternstroemiees* et des *Theas*. *Act. Soc. linn. Bordeaux.* 57: 1-53.
An outline of the genera of *Ternstroemaceae* and *Theaceae*
2611

PLANCHON, J. E.
1846 Revision de la famille des *Simarubees*. *Lond. J. Bot.* 5: 560-584.
2612

1847-48 Sur la famille des *Linees*. *Lond. J. Bot.* 6: 588-603; 7: 165-186, 473-503, 507-528.
2613

1848 Sur la famille des *Droseracees*. *Ann. Sci. nat. Bot.* 9: 79-99.
2614

1848 Sur les *Ulmacees*. *Ann. Sci. nat. Bot.* 10: 244-341.
2615

1850 Prodromus monographiae ordinis *Connaracearum*. *Linnaea.* 23: 411-442.
2616

1852 *Euryale ferox* (indica). *Fl. Serr. Gard.* 8: 79-83.
2617

1853 Uber *Euryale ferox* Roxb. (*Annesha spinosa* Roxb., *Euryale ferox* Salisb?). *Allg. Gartztg.* 21: 228-229, 234-236.
2618

1853 Enumeration succinete des especes de famille des *Nymphaeacees*. *Rev. hort. Paris* 10: 62-68.
2619

1872 Sur la distribution geographique des Ulmidies on *Ulmacees* proprement dites. *C. R. Acad. Sci. Paris.* 74: 1495-1499.
2620

1873 *Ulmaceae*. *DC. Prodr. Syst. Nat.* 17: 151-210.
A monograph.
2621

1887 *Ampelideae*. *DC. Mongr. Phan.* 5(2): 305-654.
A monograph.
2622

PLANCHON, J. E. *and* MONTPELLIER, FACUTE
1875 The *Eucalyptus globulus* from a botanical, economical and medical point of view; tr. from French by J. L. Laird. *Indian For.* 1: 156-180.
2623

PLANCHON, J. E. *and* TRIANA J.
1862 Memoire sur la famille des Guttiferes. Paris, Victor Masson et Fils. iv, 336p.
2624

PLANCHON, J. E. *and* VAN HOUTTE, L.
1850-51 La *Victoria regia*, au point de vue horticole et botanique avec des observations sur la structure et les affinites des *Nympheacees*. Gand. 52p.
2625

PLATT, A. T.
A garden book for South India; revised by B. A. Rama Rao, with entirely new sections on Bougainvilleas, Chrysanthemums, Crotons, Lawns, Leaf mould. Madras, Macmillan & Co. 118p.
2626

PLAYFAIR, G.
1833 Taleef shereef; or, Indian materia medica. Calcutta, Medical and Physical Society of India. iv, [v]-8, 182p.
2627

PLAYNE, SOMERSET
1917 Bengal, Assam, Behar and Orissa. London, The Foreign and Colonial Compiling and Publishing Co. 4 p.l., 768 p.
2628

PLEBST, G. *and* STOLZ, C.
1891 Five hundred Indian plants, their use in medicine and arts in Canarese called 'Vrikshaidigalu varnanai'. Mangalore. 230 p.
It is both in the Canarese [Kannada] and English languages.
2629

PLUKENET, L.
1691-1700 Opera omnia botanica, in sex tomo divisa. *Phytographia*. v 2-4.
Contains illustrations in black and white, with brief descriptions of many Indian plants. This is the second earliest illustrated account of many Indian plants to come out.
2630

POELLNITZ, K.
1933 Zur Kenntnis der Gattung *Talinum* Adans (*Portulaceae*). *Ber. dtsch. bot. Ges* 51: 112-127.
2631

1934 Monographie der Gattung *Talinum* Adans. *Report, nov. Spec. Regn. veg.* 35: 1-34.
2632

1934 Versuch einer Monographie der Gattung *Portulaca*. *Reperi. nov. Spec. Regn. veg.* 37: 240-320.
2633

POND, R. H.
1906 The incapacity of the dead endosperm for self digestion. *Ann. Bot. Lond.* [ ]: 62-78.
2634

PONDER, C. F. *and* HOOPER, D.
1901 An introduction to materia medica for India. Calcutta, Thacker, Spink & Co., iii, 356 p.
This work contains all the drugs and preparations of the last authorised edition of the *British Pharmacopoeia* and to these are added more or less extensive references to about 300 of the better known Indian drugs, many of which are capable of being employed as substitutes.
2635

PONNAIYA, B. W. X.
1949 Studies in the genus *Sorghum*. Thesis for M.Sc. degree of the Madras University.
2636

PONNAIYA, B. W. X.—*contd.*

1951 Studies in the genus *Sorghum*: field observations on *Sorghum*; resistance to the insect pest, *Atherigona indica* M. *J. Madras Univ.* B. 21: 96-117.
2637

PONNIAH, STELLA

1955 On the effect of musical sounds of stringed instruments on the growth of plants. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 255.
2638

1956 Further studies on the effect of musical sounds on the growth of plants. (Abstr.). *Proc. 43rd Indian Sci. Cong* iii(vi): 272-273.
4 species of plants *Desmodium gyrans. Capsicum annuum*, *Saccharum officinarum* and *Manihot utilissima* were treated by playing notes or ragas on violin to see the effect of musical sounds on growth. The results, which were definitely positive. are described.
2639

1956 Observations on plants raised from seeds and clones of musically excited plants. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii(vi): 273.
Results obtained are extraordinarily interesting and positive.
2640

POPENOE, W.

1917 The pollination of the mango. *Bull. U.S. Dept. Agric.* 542.
2641

1920 Manual of tropical and subtropical fruits, excluding the banana, coconut, pineapple, citrus fruits, olive and fig. New York, Macmillan. xv, 474 p.
2642

POPOV, M. G.

1929 The genus *Cicer* and its species (Geographical and morphological). *Bull. appl. bot. Pl. Breed.* 21(1): 1-240.
In Russian with Latin descriptions and English summary.
2643

PORTERFIELD, W. M.

1930 The mechanism of growth in bamboo. *China J.* 13: 86-91. 146-153.
2644

POTTER, M. C.

1891 On the protection of buds in the tropics, with four plates. *J. Linn. Soc.* 28: 343-352.
2645

1894 Tropical vegetation in Ceylon. *Trop. Agriculturist.* 13: 743.
Lecture at the New Castle Museum.
2646

POTTINGER, E. *and* PRAIN, D.

1894 A note on the botany of Kachin Hills. *Rec. bot. Surv. India.* 1: 215-310.
2647

POULSEN, V. A.

1877 Uber den morphologischen werth des Haustoriums von *Cassytha* und *Cuscuta*. *Flora.* [ ]: 507-512.
2648

POWER, M. S. *and* KULKARNI, S. A.

1955 Chromosome numbers in *Sesbania* sps. *Curr. Sci.* 24(6): 207-208.
Describes that chromosome in *S. sesban*, *S. speciosa* and *S. macrocarpa* are 2x=12 and that in *S. sericea* is 2x=24.
2649

POWER, M. S., NARAHARI, P. *and* SURYANARAYANA MURTHY, V. V.

1957 Studies on the absence of juncture, auricle and ligule in rice, *Oryza sativa* L. *Ann. Bot. Lond.* (n.s.). 21(83): 381-384.

2650

POWELL, B. H.

1868-72 Handbook of the economic products of the Punjab. Roorkee. 2v.

2651

PRAEGER, R. L.

1921 Some Asiatic *Sedums* in the Roxburgh Herbarium. *Notes R. bot. Gdn. Edinb.* 13(6): 67-101.

2652

PRAIN, D.

1889 *Microtaena cymosa* Prain. *Hook. Icon. Plant.* 19; Also published in the *Kew Bulletin* of 1902.

2653

1889 Noviciae Indicae; some additional species of *Pedicularis*. *J. Asiat. Soc. Bengal.* 58: 255-278.

2654

1890 Noviciae Indicae; some additional species of *Ellipanthus*. *J. Asiat. Soc. Bengal.* 59: 208.
Ellipanthus sterculiaefolius Prain is a new species described. It comes from Diamond Island.

2655

1890 The non-indigenous species of the Andaman flora. *J. Asiat. Soc. Bengal.* 59: 235-261.
Reprinted in *Mem. & Mem.*, 1894, p. 25-51.

2656

1890 A list of Diamond Island plants. *J. Asiat. Soc. Bengal.* 59(2): 271-294.
Reprinted in *Mem. & Mem;* 1894, p. 53-76. This paper forms no. 17 of Natural History notes from H. M's I.M. Steamer "Investigator". An account of the vegetation of the island is first given, followed by the list of plants, collected during a stay of few hours on the island. 95 species have been enumerated with copious notes on them.

2657

1890 Noviciae Indicae; some additional species of *Labiatae*. *J. Asiat. Soc. Bengal.* 59: 294-318.
53 genera have been described with their species, which are all new to Indian flora and are, therefore, additions.

2658

1890 Teratological effects produced on *Acacia eburnea* by *Aecidium esculentum*. *J. Bombay nat. Hist. Soc.* 5: 165-167.
Reprinted in *Mem. & Mem.*, 1894, p. 87-89.

2659

1891 Species of *Pedicularis* of the Indian Empire and its frontiers. *Ann. R. bot. Gdn. Calcutta.* 3: 1-196.

2660

1891 On an undescribed species of *Nepeta*: *N. bellevii* Prain. *J. Asiat. Soc. Bengal.* 60: 204-206.
Reprinted in *Mem. & Mem.*, 1894. p. 85-87.

2661

1891 Noviciae Indicae; two additional species of *Glyptopetalum*. *J. Asiat. Soc. Bengal.* 60: 206.
G. calocarpum and *G. griffithii* are two new species described.

2662

PRAIN, D.—*contd.*

1891 The vegetation of the Coco group. *J. Asiat. Soc. Bengal.* 60: 283-406.
Natural history notes no. 25 from H. M's I.M. Survey Steamer "Investigator". In this Coco group of islands are included the islands of the Great Coco, the Little Coco and Table Island. A descriptive account of the vegetation of these islands is given followed by a list of the plants collected. 358 species described.

2663

1891 An account of the genus *Gomphostemma* Wall. *Ann R. bot. Gdn. Calcutta.* 3: 227-273.

2664

1891 On a botanical visit to Little Andaman and the Nicobars. *Proc. Asiat. Soc. Bengal.* [ ]: 156-175.
An account of the vegetation followed by a list of plants collected is given. 105 species described.

2665

1892 Directions for drying specimen of plants for a herbarium. *Mem. & Mem.* p. 391-400.

2666

1892 An undescribed *Mezoneuron* from the Andaman group. *J. Asiat. Soc. Bengal.* 61: 130-131.
Mezoneuron andamanicum Prain sp. nov. is described. A key to all the species of *Mezoneuron* Desf. is given.

2667

1892-93 List of Laccadive plants and botany of the Laccadives. *J. Bombay nat. Hist. Soc.* 7: 268, 460; 8: 87, 488; *Sci. Mem. med. Offrs. Army. India.* 5: 47.

2668

1893 Two species of *Pedicularis*. *J. Asiat. Soc. Bengal.* 62: 7-9.
Pedicularis diffusa Prain sp. nov. and *P. flaccida* Prain sp. nov. have been described. There is a key to the species of *Pedicularis* of the section *Verticillatae*.

2669

1893 Noviceae Indicae; a review of the genus *Colquhounia*. *J. Asiat. Soc. Bengal.* 62: 30-38.
A general discussion on the genus and on the literature by previous workers. Describes two species, *Colquhounia coccinea* Wall. emend. and *C. elegans* Wall. emend.

2670

1893 On the flora of the Narcondam and Barren Islands. *J. Asiat. Soc. Bengal.* 62: 39-86.
Discusses in detail the topography as well as the phytography of the two islands. Believes that Barren Island must have been devastated once by a catastrophe similar to the one which Krakatau had in 1883. The plants found on both of these Islands are enumerated with notes. 174 species have been listed. There is a discussion on the origin and nature of the flora in these islands.

2671

1893 Notes on some methods of preparing botanical specimens, communicating memoranda by C. Maris and R. Pantbing. *J. Asiat. Soc. Bengal.* 62: 153-157.
Special directions have been given to the three difficult families, namely *Magnoliaceae, Coniferae* and *Orchidaceae*.

2672

PRAIN, D.—*contd.*

1894 Noviciae Indicae; description of a new species of *Meconopsis* from Sikkim. *J. Asiat. Soc. Bengal.* 63: 81.
Meconopsis bella Prain sp. nov. from Alpine Himalayas, W. Sikkim is described.
2673

1894 Noviciae Indicae; some additional species of the *Convolvulaceae*. *J. Asiat. Soc. Bengal.* 63: 83-115.
Species discussed in this paper are additions to those already described by C. B. Clarke in the *Flora of British India*.
2674

1894 Memoirs and memoranda, chiefly botanical; reprints from periodicals, 1887-1893. Calcutta, Baptist Mission Press. vi, 419 p.
2675

1894 The genus *Psilotum* in India. *J. Bombay nat. Hist. Soc.* 8: 428-430.
2676

1895 Noviciae Indicae; some additional *Papavaraceae*. *J. Asiat. Soc. Bengal.* 64: 303-327.
Papaver, Argemone, Meconopsis, Roemeria, Glaucium, Cathcartia and *Chelidonium* have been discussed upon.
2677

1895 A case of pleiotaxy of the gynaecium in *Carica papaya*. *Proc Asiat. Soc. Bengal.* [ ]: 196.
This is an excellent instance of the condition spoken of as fruit within a fruit.
2678

1895 On *Milula*, a new genus of the *Liliaceae* from the east Himalaya *J. Bombay nat. Hist. Soc.* 10: 55.
2679

1895 A revision of the genus *Chelidonium*. *Bull. Herb. Boiss. Geneve.* 42.
2680

1895 Le genre *Microtaena*. *Bull. Herb. Boiss. Geneve.* 42: 417-427.
2681

1896 Note on double rice. *Proc. Asiat. Soc. Bengal.* [ ]: 65.
Considers it as a case of proliferation in the gynaecium without any accompanying abnormality in the other parts of the flower.
2682

1896 Kranji. *Indian For.* 22: 460-461.
2683

1896 Noviciae Indicae; some additional *Fumariaceae*. *J. Asiat. Soc. Bengal.* 65: 10-41.
Describes *Hypecoum* Tournf., *Dicentra* Borkh. and *Corydalis* Dc.
2684

1896 Noviciae Indicae; two additional species of *Lagotis*. *J. Asiat. Soc. Bengal.* 65: 57-66.
Lagotis, the only genus in the order *Selagineae*, has been described as a key to the species. 12 species of *Lagotis* have been described, including two new ones: *Lagotis pharica* Prain and *Lagotis crassifolia*, Prain.
2685

1896 Noviciae Indicae; description of a new genus of *Orchidaceae*. *J. Asiat. Soc. Bengal.* 65: 106.
Describes *Pantlingia paradoxa* Prain gen. & sp. nov., a single species from Sikkim.
2686

PRAIN, D.—*contd.*

1896 Noviciae Indicae; further notes on Indian *Convolvulaceae*. *J. Asiat. Soc. Bengal*. 65: 536.
2687

1896 Noviciae Indicae; some additional *Solanaceae*. *J. Asiat. Soc. Bengal*. 65: 541.
2688

1897 Noviciae Indicae; some additional *Leguminosae*. *J. Asiat. Soc. Bengal*. 66: 347-378.
An excellent analysis of many doubtful points of synonymy in this family.
2689

1897 Noviciae Indicae; more additional *Labiatae*. *J. Asiat. Soc. Bengal*. 66: 518-522.
2690

1897 An undescribed oriental species of *Onobrychis*. *Bull. Herb. Boiss. Geneve*. [ ]: 74
2691

1897-98 Plants of a Bombay swamp. *J. Bombay nat. Hist. Soc*. 11: 335.
2692

1897-98 A new *Curcuma* from the Deccan, *Curcuma ranadei* Prain. *J. Bombay nat. Hist. Soc* 11: 463-464
2693

1898 On three new genera of plants from Kachin Hills. *Sci. Mem. med. Offrs. Army India*. 11: 41.
2694

1898 The cultivated races of the *Brassicas* of Bengal. *Agric. Ledger*. 1.
A monograph.
2695

1899 An account of *Corydalis persica* Cham. et Schlecht, with remark on certain allied species of *Corydalis* Vent. *Bull. Herb. Boiss. Geneve*. 7: 162.
2696

1900 Report on the Indian species of *Pterocarpus*. *Indian For*. 26 (Appendix).
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Describes *Musa nagensium* Prain sp. nov. from the Naga Hills.
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Deals with the macro and the microscopical structure of stem, leaf and floral parts of *A. paniculata*. The quantitative studies of the leaf such as palisade ratio, stomatal index and vein islet number have also been determined.

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Samples of *Phaeoceros laevis* originating in different parts of the world were studied from field collections and cultures. An analysis of their variability is provided. This is a part of a complete taxonomic review of the *Anthoceratales*. A list of specimens cited in the paper is given at the end. 2 species for Assam and 5 for India have been accounted for.
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1941 Palaeobotany in India; progress report for 1941. *J. Indian bot. Soc.* 21: 211-224.
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Nine fossil species of the *Salicaceae* are described from leaf-impressions among the materials collected partly by R. R. Stewart and by the author from few spots from the Ningal Nullah locality. The fossiliferous beds belong to the lower Karewa series and are Pleistocene in age. The nature of the climate prevalent in that age is also given.
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1945 The genus *Quercus* in the Karewa deposits of Kashmir, with remarks on the Oak forests of the Kashmir valley during the Pleistocene. *Proc. Indian Acad. Sci.* B. 22(4): 233-256.
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1945 Some macroscopic plant remains referred to the *Betulaceae* from the Karewa deposits of Kashmir. *Proc. Indian Acad. Sci.* B. 22(5): 257-273.

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Describes some fossil remains of the *Betulaceae* from collections made by Middlemiss, Stewart and the author from the lower Karewa deposits of Kashmir, exposed along the Pir Panjal side of the valley at Liddarmarg, Ningal Nullah and Laredura. The fossils are leaves of *Betula utilis, B. alnoides, Alnus nepalensis, Alnus nitida* and other species of *Betula* and *Alnus*.

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1948 The genus *Buxus* in Pleistocene of Kashmir. *Indian For.* 74(10): 354.
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1948 A preliminary note on the Pleistocene flora of the Karewa formations of Kashmir. *Quart. J. geol. Soc. India.* 20(2): 61-67.
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1948 The flora of the Karewa series of Kashmir and its phytogeographical affinities, with chapters on the methods used in identification. *Indian For.* 74: 105-122, 152-164, 210-225, 240-243.
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1949 Forest ecology and evaporation measurement in India. *Sci. & Cult.* 15: 465-467.
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1954 On some fossil remains of *Hamiltonia* and *Wendlandia* from the Pleistocene of Kashmir, India. *Bull. bot. Soc. Bengal.* 8: 237-239.
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Distinguishes four stages in the phyto-geographical evolution of the Kashmir valley since the early quaternary period. Findings are based on the investigations of the fairly complete sequence of fossil floras from the Pir Panjal range.

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1958 Problems in the ecology of the humid tropics. *Proceedings of the Kandy Symposium on the study of Tropical Vegetation.* p. 19-24.
Contains discussion and a resume at the end of the paper followed by a bibliography on the subject.

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1958 Flora of the Bashahar Himalayas. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 326.
500 species not mentioned in Collett's *Flora Simlensis* have been collected.

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PURI, G. S. *and* JAIN, S. K.

1958 Survey of some medicinal plants in western India. *Indian J. Pharm.* 20(8): 205.
Gives information on the occurrence of some of the more common and more important medicinal plants observed by the authors during their survey tours and which in their opinion could be exploited commercially. They say that they have supplied original data in usage and cultivation. Information on habit and occurrence has been given.

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1957 Scrub vegetation of the Poona District. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 287-288.

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1958 Observations on the vegetation of Kutch. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 326-327.

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1958 The study of dry Scrub vegetation and forest management at Dhond, Poona. *Proc. nat. Inst. Sci. India.* B. 24(3): 145-149.
Records the results and observations of a study of the succession of vegetation in an area of forest land near Poona, which was once evergrazed, but which has been closed for grazing for the last seven years and where planting of species has been taken up under forest management.

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1958 Flora of the Aravalli Hills at Abu. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 327-328.

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PURI, G. S. *and* MAHAJAN, S. D.

1957 Studies on the vegetation of Mahabaleswar. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 288.

2851

PURI, G. S. *and* MAHAJAN, S. D.—*contd.*

1958 Dry deciduous forest of Khandesh. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 328.

2852

1958 The vegetation of marshes and swamps in the Poona District. *Proc. nat. Inst. Sci. India.* B. 24(3): 159-164.
Studies after Puri and Misra's *Manual of plant ecology* the vegetation of permanent marshes and swamps met with here and there in the Poona District. 7 localities, scattered all over the district of Poona, have been demarcated for this study. They have been studied community-wise, naming each community by the most dominant species in each community.

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1958 Vegetation of the Kurans (Grassy scrub vegetation in Khandesh). (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 329.

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PURI, G. S. *and* MAINI, J. S.

1957 The study of soil profiles under Oaks and conifers of Chakrata Himalayas. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 288-289.

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1957 Succession of forest communities in Chakrata Himalaya. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 289-290.

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PURI, G. S. *and* SEN, J.

1949 Recent advances in applied micropalaeontology and micropalaeobotany. *Sci. & Cult.* 14: 510-517.

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PURI, G. S. *and* VASAVADA, J. A.

1957 The evergreen vegetation of Poona District. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 291.

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1957 Vegetation of evergreen plantation at Hivre. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 291-292.

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1958 The grasslands of the low rainfall areas in Maharashtra. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 329-330.

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1958 The teak forest of the Poona District. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 330.

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PURI, VISHWAMBAR

1934 A note on the embryosac and embryo of *Moringa oleifera* Lamk. *Proc. Indian Acad. Sci.* B. 1: 279-281.

2862

1939 Studies in the order *Parietales;* a contribution to the morphology of *Tamarix chinensis* Lour. *Beih. Bot. Zbl.* 59A: 335.

2863

1939 Studies in the order *Parietales;* a contribution to the morphology of *Garcinia livingstonei* T. And. *Proc. Indian Acad. Sci.* 9: 74-86.

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1940 Gynaecium constitution in the *Capparidaceae, Papavaraceae* and *Resedaceae.* (Abstr.). *Proc. 26th Indian Sci. Cong.* iii: 134.

2865

PURI, VISHWAMBAR—*contd.*

1940 The conservatism of the vascular tissues as illustrated in the order *Rhoedales*. (Abstr.). *Proc. 26th Indian Sci. Cong.* iii: 135.
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1941 Gynaecium constitution in *Passiflora* spp. *Proc. 27th Indian Sci. Cong.* iii: 160.
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1941 The life-history of *Moringa oleifera* Lamk. *J. Indian bot. Soc.* 20: 263-284.
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1941 Studies in floral anatomy; gynaecium constitution in the *Cruciferae*. *Proc. Indian Acad. Sci.* 14: 166-187.
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1942 Vascular anatomy of the flowers of certain *Cucurbits*. (Abstr.). *Proc. 28th Indian Sci. Cong.* iii: 141.
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1942 Studies in floral anatomy; floral anatomy of the *Moringaceae* with special reference to gynaecium constitution. *Proc. nat. Inst. Sci. India*. B. 8: 71-88.
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1945 Studies in the floral anatomy; on the origin and orientation of placental strands. *Proc. nat. Acad. Sci. India*. B. 15: 74-91.
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1947 Studies in the floral anatomy; vascular anatomy of the flowers of certain species of the *Passifloraceae*. *Amer. J. Bot.* 34: 562-573.
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1948 Studies in floral anatomy; on the structure and nature of corona in certain species of the *Passifloraceae*. *J. Indian bot. Soc.* 27: 130.
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1950 Studies in floral anatomy; vascular anatomy of the flower of *Crataeva religiosa* with special reference to the nature of the carpels in *Capparidaceae*. *Amer. J. Bot.* 37: 363-370.
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1950 On placentation in angios perms. *Proc. 7th Internat. bot. Congr. Stockholm.*
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1951 The role of floral anatomy in the solution of morphological problems. *Bot. Rev.* 17: 271-353.
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1952 Floral anatomy in relation to taxonomy. *Agra Univ. J. Res.* 1: 15-35.
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PURI, VISHWAMBAR—*contd.*

1952 Placentation in angiosperms. *Bot. Rev.* 18(9): 603-651.
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1954 On the relation between leaf and stem. *Bull. bot. Soc. Bengal.* 8(1 & 2): 100-106.
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1954 Studies in floral anatomy; on placentation in *Cucurbitaceae*. *Phytomorph.* 4(3 & 4): 278-299.
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1958 Floral anatomy and taxonomy. *Mem. Indian bot. Soc.* 1: 15-18.
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PURI, VISHWAMBAR *and* GARG, M. L.

1953 A contribution to the anatomy of the sporocarp of *Marsilea minuta* with a discussion of the nature of sporocarp in the *Marsileaceae*. *Phytomorph.* 3(3): 190-209.
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1953 Morphology of the sporocarp in the *Marsileaceae*. *Curr. Sci.* 22(5): 150-152.
Nature of the sporocarp in the *Marsileaceae* has been a matter of controversy for long. Study of the anatomy of the sporocarp of *Marsilea minuta* has brought out: (1) the pinnate nature of the single fertile leaflet, which forms the sporocarp, (2) the bilobed nature of the festila pinnules, and (3) the adaxial folding of the pinnules.
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PURI, VISHWAMBAR *and* SINGH, B.

1935 Studies in the family *Amarantaceae;* the life history of *Digera arvensis* Forsk. *Proc. Indian Acad. Sci.* 1: 893-908.
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PURI, Y. N.

1956 Studies on Indian *Poria*. *J. Indian bot. Soc.* 35(3): 277-283.
5 species of *Poria*, a genus of wood-rotting fungi, have been described from the herbarium of the Forest Branch of the Forest Research Institute, Dehra Dun. They are all new records for India.
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PURKAYASTHA, C. S.

1938 Four new species from Assam. *Indian For.* 64(5): 276-281.
Quercus milroyii Purkayastha, *Salacia khasiana* Purkayastha, *Purkayasthaea pseudomicropora* Purkayastha et Narayanaswami, *Ilex khasiana* Purkayastha are new species described.
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PURKAYASTHA, K. K.

1940 A note on the occurrence of tri-cotyledonary seedlings in *Crotalaria juncea* L. *Curr. Sci.* 9(10): 467.
On the abnormal occurrence of 3 cotyledonous seeds of *Crotalaria juncea*.
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PUSALKAR, S. D.

1944 Mixed deciduous forests of Raita and their soils.
Thesis for M.Sc. Degree of the Bombay University.
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PUYDT, E. DE

1800 Les Orchidees, histoire iconographique, organographie, classification, geographie, collections, commerce, emploi, culture avec une revue descriptive des especes cultivees en Europe. Paris, J. Rothschild. viii, 348 p.
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1940-43 Marine algae from Karachi; with a foreword by Haraprasad Chaudhuri. Lahore, Univ. of Punjab. 2v.
Contents: v. 1—*Chlorophyceae;* v. 2—*Rhodophyceae.*
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PYNAERT, L.

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1898 Les *Arundinaria* Michx. *Rev. Hort. Belg.* 24: 54-59.
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PYRARD, F.

1879 Voyage-aux Indes orientales. Paris, L. Billaine. 4 p.l., 327, 220, 144, [23] p.
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QADIR, SAIYID ABDUL

1925 *Santalum album* L. in the Chittoor District of the Madras Presidency; root parasitism, is it obligatory? *Indian For.* 50.
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QAZILBASH, M. A.

1935 A short report on the economic value of *Artemisia* growing in the N.-W. Frontier Provinces. *Curr. Sci.* 4(1): 51.
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1935 *Artemisia* of Afghanistan as a source of Santonin. *Bull. Sci. Pharm.* 42: 129.
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1943 The Kurram *Santonica*. *Curr. Sci.* 12(8): 233.
A letter and a reply to it by S. Krishna.
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1950 A new species of *Artemisia* for Kurram valley. *J. Indian bot. Soc.* 29(4): 190-194.
Describes *A. kurramensis* sp. nov.
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QUEVA, C.

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QUISUMBING, E.

1919 Studies of the Philippine bananas. *Philipp. agric. Rev.* 12(3): 1-73.
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RADERMACHER, A.

1926 Die Gametophyten von *Nipa fruticans* und *Actinophloeus macarthurii* Sowie, ein Versuch die Systematik der Angiospermen durch die haploide Generation zu erganzen. *Ann. Jard. bot. Buitenz.* 35: 1-54.
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RADLKOFER, L.

1878 Ueber *Sapindus*. *S. B. bayer. Akad. Wiss.* 9: 221-408.
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1879 Uber *Cupania* und damit verwandte Pflanzen. *S. B. bayer. Akad. Wiss.* 9: 457-678.
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RADLKOFER, L.—*contd.*

1890 Conspectus tribuum generumque *Sapindacearum*. Monachii. 23p.
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1890 Uber die gliederung der *Sapindaceen*. *S. B. bayer. Akad. Wiss.* 20: 105-379.
A monograph.
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1907 *Sapindaceae* novae indicae e malaicae ex herbario calcuttensis. *Rec. bot. Surv. India.* 3(3): 341-355.
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1908 Ueber die Gattung *Allophylus* und die Ordnung ihrer Arten. *S. B. bayer. Akad. Wiss.* [ ]: 201-240.
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RAFAY, S. A.

1933 A survey of the flora and fauna of the water supplies of the Madras Presidency. *Indian J. med. Res.* 20(4): 1083-1100.
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1950 Another strain of *Physalospora tucumanensis*. *Curr. Sci.* 19: 385.
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RAGHAVAN, T. S.

1932 The physiological anatomy of *Ulex europaeus* L. *J. Annamalai Univ.* 1: 194-202.
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1933 Observations on the stomatal distribution and the rate of transpiration in wilting leaves. *J. Annamalai Univ.* 2: 85-100.
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1933 Somatic mitosis in *Allium sativum* L. *J. Annamalai Univ.* 2: 258-266.
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1935 Observations on the somatic chromosomes of *Urginea indica* Kth. *J. Indian bot. Soc.* 14: 151.
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1935 The somatic chromosomes of *Urginea indica* Kth. *Curr. Sci.* 3(8): 360.
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1937 Studies in the *Capparidaceae;* the life history of *Cleome chelidonii*. *J. Linn. Soc.* 51: 43-68.
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1938 Morphological and cytological studies in the *Capparidaceae;* floral morphology and cytology of *Gynandropsis pentaphylla* Dc. *Ann. Bot. Lond.* (n.s.). 2: 75-95.
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1938 Studies in the *Capparidaceae;* prochromosomes of *Polanisia trachysperma* Torr. & Gray and *Gynandropsis pentaphylla*. *Cytologia.* 8: 563.
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1939 Studies in the *Capparidaceae;* floral anatomy and some structural features of the Capparidaceous flower. *J. Linn. Soc.* 53: 239-256.
Gynandropsis pentaphylla Dc., *Cadaba indica* Lam. and *Cleome chelidonii* L.f. have been studied.
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1939 The cytology of triploid *Urginea indica*. *Cytologia.* 10: 189.
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1939 The cytology of *Scilla indica*. *Cytologia.* 11: 55.
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RAGHAVAN, T. S.—*contd.*

1939 The cytology of diploid *Urginea indica*. *Cytologia*. 11: 71.

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1939 Studies in the *Bignoniaceae;* chromosome number and epidermal hydathodes in *Spathodea campanulata*. *J. Indian bot. Soc.* 19: 293.

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1940 Studies in the Indian *Aizoaceae*. *Ann. Bot. Lond.* (n.s.). 4: 651.

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1940 Beobachtungen an Pollenschlauchkulturen fur der *Hydrophyllaceae*: *Nemophila insignis*. *Planta*. 27: 27-466.

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1946 The Cucurbitaceous stem. *Curr. Sci.* 15(3): 75-76.
Cucurbitaceous stem has always been a subject for the demonstration of the bicollateral vascular bundles in the stem from the anatomical point of view. *Cucurbitaceae* has been of phylogenetic interest.

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1951 Cytoplasmic inheritance in *Saccharum*. (Letter). *Curr. Sci.* 20(5): 138-140.

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1951 The sugarcane of India; some cytogenetic considerations. *J. Hered.* 42: 199-206.

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1956 The bearing of certain recent cytogenetic findings of sugarcane breeding. *Proc. Indian Acad. Sci.* B. 43(2): 100-109.

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1956 Text book of botany. Jaffna, Ceylon, Kalaivani Publishers Ltd. 2v.

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RAGHAVAN, T. S. *and* KRISHNAMURTHY, K. V.

1945 Chromosome numbers of *Sesamum laciniatum* Klein. (Letter). *Curr. Sci.* 14(6): 152-153.
The chromosome number for this species has been found to be 2x=28.

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1947 Cytogenetical studies in *Sesamum;* cytology of the parents, *Sesamum orientale* and *Sesamum prostratum* Retz. and cytology of the sterile hybrid between them and of the fertile amphidiploid. *Proc. Indian Acad. Sci.* B. 26(6): 236-275.
The cytology of *Sesamum orientale* and *S. prostratum* has been studied in detail. The origin of these species is traced through cytological data.

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RAGHAVAN, T. S. *and* RANGASWAMI, K.

1934 Abnormal flowers of *Cassia fistula* L. *Curr. Sci.* 3: 256.

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RAGHAVAN, T. S. *and* SRINIVASAN, A. R.

1941 Morphological and cytological studies in the *Scrophulariaceae;* the development of the embryo-sac and endosperm in *Scoparia dulcis* Linn. *Proc. Indian Acad. Sci.* B. 13(4): 229-234.

2939

1941 Cytological studies in *Nicotiana;* morphological features of *Nicotiana glutinosa* and the hybrid between *Nicotiana glutinosa* and *N. tabacum*. *Proc. Indian Acad. Sci.* B. 14(1): 35-46.

RAGHAVAN, T. S. *and*
SRINIVASAN, A. R.—*contd.*

The development of microsporangium in *Nicotiana glutinosa* is described. A comparative study of the embryo-sac and embryo formation in *N. glutinosa* and *N. tabacum* has been made.

2940

1941 Studies in *Rubiaceae; Spermacoce hispida* Linn, *Guettarda speciosa* Linn. and some cyto-morphological considerations. *Proc. Indian Acad. Sci. B.* 14(4): 412-426.

The development of the embryo-sac in *Spermacoce hispida* and *Guettarda speciosa* has been described. The haploid numbers of *Spermacoce* (n=28) and *Guettarda* (n=22), reported previously, and the basic number of the family have been confirmed.

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1941 Cyto-morphological features of *Portulaca tuberosa* Roxb. *Proc. Indian Acad. Sci.* B. 14(5): 472-488.

The development of the microsporangium of *Portulaca tuberosa* Roxb. is described. The diploid number of chromosomes was found to be 18. The position of *Portulacaceae* is considered cytotaxonomically.

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1942 Cyto-genetical studies in *Datura;* cytology of the parents and of the hybrid between *Datura fastuosa* and *Datura* sp. *Proc. Indian Acad. Sci.* B. 15(1): 61-74.

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RAGHAVAN, T. S. *and*
SRINIVASAN, K. V.

1940 Studies in the Indian *Aizoaceae. Ann. Bot. Lond.* (n.s.). 4: 73.

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1940 A contribution to the life history of *Bergia capensis* L. *J. Indian bot. Soc.* 19: 283.

2945

1940 Morphological and cytological studies in the *Scrophulariaceae;* the cytology of *Angelonia grandiflora* C. Morr. and some related genera. *Cytologia.* 11: 37-54.

2946

1941 Morphological and cytological studies in the *Scrophulariaceae;* the development of the embryosac and endosperm in *Scopari dulcis* L. *Proc. Indian Acad. Sci. B.* 13: 229.

2947

1941 Morphological and cytological studies in the *Scrophulariaceae;* contribution to the life history of *Ilysanthes parviflora* Bth. *Proc. Indian Acad. Sci.* B. 13(1): 24-32.

The haploid chromosome number of *Ilysanthes parviflora* has been recorded for the first time. A detailed account of the male and female gametophytes and of the embryo is given.

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1941 Studies in *Rubiaceae. Proc. Indian Acad. Sci.* B. 14: 412.

Studies *Dentella repens, Oldenlandia alata, Spermacoce hispida, Guettarda speciosa* and a few others. Discusses the nature of the nucellus and the integument.

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1942 A contribution to the life history of *Vahlia viscosa* Roxb. and *Vahlia oldenlandioides* Roxb. *Proc. Indian Acad. Sci.* B. 15(2): 83-105.
Describes the entire life history of *Vahlia viscosa* and *V. oldenlandioides* for purposes of comparison.
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RAGHAVAN, T. S. *and* VENKATASUBBAN, K. R.

1939 Studies in the *Capparidaceae;* the cytology of *Crataeva religiosa* Forst. *Cytologia.* 10: 23-31.
2951

1940 Floral ontogeny and anatomy of *Crataeva religiosa* with special reference to the morphology of the carpel. *Beih. Bot. Zbl.* [ ]: 397.
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1940 Studies in the south Indian chillies; a description of the varieties, chromosome numbers and the cytology of some X-rayed derivatives in *Capsicum annuum* Linn. *Proc. Indian Acad. Sci.* B. 12(2): 29-46.
The importance of X-ray treatment in the evolution of polyploid forms either through asynapsis or through cytomixis is indicated.
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1940 Studies in the *Capparidaceae;* the cytology of *Capparis zeylanica* L. and related genera. *Cytologia.* 11: 319.
Haploid chromosome counts have been made of *Capparis zeylanica, Cadaba indica* and *Maerua arenaria* for the first time.
2954

1941 Contribution to the cytology of *Tridax procumbens* Linn. *Proc. Indian Acad. Sci.* B. 13(2): 85-108.
The diploid and haploid chromosome numbers of *Tridax procumbens* have been determined for the first time to be 36 and 18 respectively. Meiosis has been described in detail.
2955

1941 Studies in the *Capparidaceae,* floral structure in *Crataeva religiosa* Forst. with special reference to the morphology of the carpel. *Proc. Indian Acad. Sci.* B. 13(2): 109-128.
Crataeva religiosa has been studied in detail from an ontogenetic, as well as anatomical point of view and throwing light upon the morphology of the carpel.
2956

1941 Studies in *Capparidaceae;* floral morphology of *Crataeva religiosa* Forst. *Proc. Indian Acad. Sci.* B. 13(4): 235-243.
This is a continuation to a series of papers on Indian members of the *Capparidaceae* from 1937 to 1941. Observations on the development of the microsporangium and the macrogametophyte are described.
2957

1941 Contribution to the morphology and cytology of *Alpinia calcarata* Rosc. with special reference to the theory of Zingiberous flowering. *Proc. Indian Acad. Sci.* B. 13(5): 325-344.
The somatic chromosome number of *Alpinia calcarata* Rosc. has been recorded.

RAGHAVAN, T. S. *and*
VENKATASUBBAN, K. R.—*contd.*
Some cytological details as well as details of the embryo-sac development are given. Study of the ontogeny of the flower and of the floral group has been made in order to show the morphology of the much discussed labellum.
2958

1943 Cytological studies in the family *Zingiberaceae* with special reference to chromosome number and cytotaxonomy. *Proc. Indian Acad. Sci.* B. 17(4): 118-132. Deals with the determination of the chromosome numbers of 4 species. Other cytological details have also been made out and discussed from an evolutionary point of view.
2959

RAGHAVAN, V. *and* BARUA, H. K.
1956 On factors influencing fruit set and sterility in Arecanut (*Areca catechu* L.); studies on pollen grains. *J. Indian bot. Soc.* 35(2): 139-151.
2960

1956 On certain aspects of the morphology of Arecanuts (*Areca catechu* Linn.). *J. Univ. Gauhati.* 7: 23-40. The range of floral variation usually met with in cultivated types of Arecanuts in Assam has been studied. A schedule showing the variations is given.
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RAGHAVA RAO, K. V.
1940 Gametogenesis and embryogeny in five species of *Convolvulaceae*. *J. Indian bot. Soc.* 19: 53.
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RAGHUNATHA GANESA NAVAHASTA
(17th century A.D.)
1956 Bhojankuthuhalam. Ananthasayana Viswa Vidyalaya publication. 3v.
A treatise on dietatics and some aspects of ayurveda. Contains a glossary of plants, with their vernacular equivalents in Malayalam and Tamil, and scientific nomenclature.
2963

RAI, S.
1939 The developments of the gametophytes in *Fumaria indica*. (Abstr.). *Proc. 26th Indian Sci. Cong.* iii: 120.
2964

1939 Development of the female gametophyte in *Capparis aphylla*. (Abstr.). *Proc. 26th Indian Sci. Cong.* iii: 123.
2965

RAIZADA, MUKAT BEHARI
1931 Contributions to Duthie's *Flora of the upper Gangetic plain* from the neighbourhood of Dehra Dun. *J. Indian bot. Soc.* 10: 155.
2966

1934 New or little known plants. *Indian For.* 60: 529.
2967

1935 Recently introduced or otherwise imperfectly known plants from the upper Gangetic plain. *J. Indian bot. Soc.* 14: 359.
2968

1935 List of plants grown in the Forest Research Institute grounds, Dehra Dun. Dehra Dun.
2969

1935 The genus *Psilotum* in India. *Indian For.* 61: 654-658.
2970

RAIZADA, MUKAT B.—*contd.*

1939 Recently introduced or otherwise imperfectly known plants from the upper Gangetic plain. *Indian For. Res.* Botany. (n.s.). 1(5): 223-236.
This list forms a supplement to Duthie's *Flora of the upper Gangetic plain.*

2971

1941 New or little known plants from Kumaon. *Indian For.* 67: 1-8.

2972

1941 On the flora of Chittagong. *Indian For.* 67(5): 245-254

2973

1941 Five new Indian and Burmese flowering plants: *Ceropegia borii* M. B. Raizada, *Bauhinia lyrata* M. B. Raizada, *Neptunia robertsonii* M. B. Raizada, *Capparis bhamoensis* M. B. Raizada and *Phlogacanthus pochnii* M. B. Raizada. *Indian For. Rec.* Botany. (n.s.). 3(3): 121-128.

2974

1942 Hints for botanical collectors. *Indian For. Bull.* Botany. (n.s.). 109: 1-9.

2975

1942 Some name changes in important Indian plants. *Indian For.* 68(4): 206-207.

2976

1942 New or noteworthy *Apocynaceae* from India and Burma. *Indian For.* 68(7): 361-368.
Aganosma lacei Raizada is a new species from Maymyo. Type J. H. Lace No. 5251. Eleven additional records also noticed.

2977

1944 The longevity of plants—a review of Hans Molisch's *Die Lebensdauer der Pflanze* (1928), translated into English by E. H. Fulling. *Indian For.* 70(7): 207-210.
Mentions the sacred Bo tree, *Ficus religiosa* of Anuradhapura in Ceylon, said to have been planted by Mahindra in 307 B.C.

2978

1944 The double coconut. *Indian For.* 70: 411-415.

2979

1945 Fasciated inflorescence of *Sophora secundiflora* Dc. *J. Bombay nat. Hist. Soc.* 45: 258.

2980

1946 *Tractocopevodia*—a new genus of *Rutaceae*. *Indian For.* 72: 275-277.

2981

1946 The discovery of *Hypericum hookerianum* W. & A. in Jaunsar. *Indian For.* 72: 535.

2982

1948 A little known Burmese bamboo. *Indian For.* 74: 7-10.

2983

1948 A new *Senecio* from Assam. *J. Indian bot. Soc.* 27: 206-207.

2984

1949 Some interesting plants from Orissa. *J. Bombay nat. Hist. Soc.* 48(4): 667-680.
85 species, including one new species of *Dimeria*, belonging to 67 genera and 33 families have been enumerated. They were collected by H. F. Mooney from the eastern States of Orissa, particularly the Kalahandi Estate.

2985

1950 New or noteworthy plants from the upper Gangetic plain. *Indian For.* 76: 1-9.

2986

RAIZADA, MUKAT B.—*contd.*

1952 Ferns of Nepal. *Indian For.* 78: 576-581.
2987

1952 New difficulties facing plant taxonomists (Proposal no. 44 submitted to the Paris Congress). *Taxon.* 2(8): 185-187.
Refers to new combinations of plant names.
2988

1953 The redwood of China (*Metasequoia glyptostroboides* Hu et Cheng). *Indian For.* 79(3): 159-162.
Discusses the occurrence of this tree in central China, its relationship with other members of the *Taxodiaceae*. It is assigned to a separate family *Metasequoieaceae*.
2989

1953 The correct identity and status of *Flacourtia ramontchi* L'Herit and *F. sepiaria* Roxb. *Indian For.* 79(9): 503-505.
2990

1953 Curtis's *Botanical Magazine*: its origin, history and mission. *J. Bombay nat. Hist. Soc.* 51(4): 819-824.
2991

1953 A note on two species of *Triumfetta* from Uttar Pradesh. *Indian For.* 79(11): 601-602.
T. rhomboidea and *T. pilosa* are discussed. Considers that *T. tomentosa* Noronha should be retained.
2992

1953 The correct name of Pipli (*Bucklandia populnea* R. Br. ex Griff.). *Indian For.* 79(12): 673-674.
Author thinks that it should be named *Symingtonia populnea*.
2993

1954 Contribution to the flora of Gir forests in Sourashtra. *Indian For.* 80: 379-389.
2994

1954 Grasses of upper Gangetic plain and some aspects of their ecology. *Indian For. Rec.* Botany. (n.s.). 4(5): 83-103.
2995

1954 Hortus Malabaricus. *Centenary Souvenir of the Madras State Herbarium*. p. 64-69.
A note on the origin, contents and importance of this work to Indian botany and Indian botanists.
2996

1954 A note on *Ventilago gamblei* Merr. *J. Bombay nat. Hist. Soc.* 52(3): 660.
2997

1955 Glimpses of the vegetation of Okhamandal. *Indian For.* 81: 641-649.
2998

1957 A new species of *Sorghum* from Burma. *Indian For.* 83(5): 315-316.
Describes *Sorghum burmanica* sp. nov.
2999

1957 A new variety of *Gymnosporia falconeri* Lawson from northern Oudh, Uttar Pradesh. *J. Bombay nat. Hist. Soc.* 54(3): 796-797.
The new variety is named *G. falconeri* Laws. var. *kanjilalii* Raizada var. nov.
3000

1958 Name changes in common Indian plants. *Indian For.* 84(8): 467-538.
Gives the botanical names of about 815 common Indian plants.
3001

1958 New plant record for the upper Gangetic plain. *Proc. nat. Inst. Sci. India.* B. 24(4): 198-208.
28 species referable to 20 genera and 10 families are enumerated with notes. These are additions to Duthie's *Flora of Upper Gangetic Plain.* Full descriptions are added to those species not included in Hooker's *Flora of British India.*

3002

RAIZADA, MUKAT BEHARI *and* CHATTERJI, R. N.

1953 The correct name of Indian Babul. *Indian For.* 79(8): 420-421.
This refers to Chevalier's new combination of *A. scorpioides* based on Linnaeus's *Mimosa scorpioides. Acacia arabica* stands as the correct name of Babul.

3003

1953 A new Burmese *Dillenia. Indian For.* 79(10): 524-525. *Dillenia parkinsonii* sp. nov. is described.

3004

1956 World distribution of bamboos with special reference to the Indian species and their more important uses. *Indian For.* 82(5): 215-218.
Mentions the genera and species of bamboo occurring in various parts of the world. Gives additional information on growth, characters and economic uses.

3005

RAIZADA, MUKAT BEHARI *and* CHOUDHURY, N. P.

1954 Ferns and fern allies of the upper Gangetic plain. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 118.
About 72 species of tropical ferns have been studied, collected from Dehra Dun and lower down.

3006

RAIZADA, MUKAT BEHARI *and* JAIN, S. K.

1950 Review of some name changes in Indian grasses. *Indian For.* 76: 523-525.

3007

1950 *Filipedium,* a new genus of *Gramineae. J. Bombay nat. Hist. Soc.* 49: 682-684.
Describes *F. planipedicellatum* (Bor) Raizada and Jain comb. nov. (=*Capillipedium planipedicellatum* Bor).

3008

1951 First record of the genus *Euclasta* Franch. (*Gramineae*) in India. *Indian For.* 77: 267-268.

3009

1954 On the genus *Eremopogon* Stapf and its affinities with *Schizachyrium* Nees. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 130.
The authors regard that *Eremopogon* Stapf is not distinct from *Schizachyrium* and they would merge it with the latter by slight modification of the generic characters.

3010

1957 The genus *Eremopogon* Stapf and its affinities with *Schizachyrium* Nees. *J. Bombay nat. Hist. Soc.* 54(4): 858-865.
Three species, recognised under *Eremopogon,* have been described.

3011

RAIZADA, MUKAT BEHARI *and* VARMA, B. S.

1937 Indian plants reputed as fish poisons *Indian For.* 63: 198-218.

3012

RAJAGOPALAN, K.

1956 Variability in size and frequency of stomata in leaves of rice varieties and its correlation in drought resistance. *Madras agric. J.* 43(9): 429-443.
Arrangement, size and frequency of stomata in 2 parents and a progeny and in 14 varieties of rice showed no correlation with drought resistance. Other factors found are in agreement with earlier studies.

3013

RAJAGOPALAN, V. R.

1952 Pt. 1—Ecological adaptations of the mangrove vegetation at Pichavarum; Pt. 2—Cytological studies in *Combretaceae*. Annamalai Nagar, Annamalai University. 53p.
Thesis for the degree of M.Sc. in Botany.

3014

RAJAGOPALAN, V. R. *and* NATARAJAN, A. T.

1952 An unusual case of vivipary in *Rhizophora mucronata* Lamk. *J. Bombay nat. Hist. Soc.* 50(3 & 4): 684-685.

3015

RAJAGOPALACHARI, C.

1945 Thavarangalin illaram. Madras, Alliance & Co. 103p.
A popular and elementary book on botany, giving the life history of plants in the Tamil language.

3016

RAJAN, S.

1954 Commentaria herbarii; vascularization of the three-stamened, three-carpelled flowers of *Nyctanthes arbortristis* L. *J. Madras Univ.* 24(2): 237-243.

3017

RAJASEKHARA MUDALIAR, C.

1950 A new variety of *Cucurbita maxima; C. maxima* var. *badagarensis* Mudaliar, C. R. *J. Bombay nat. Hist. Soc.* 49(2): 242-243.

3018

1953 Studies in the nomenclature of south Indian Cucurbits; *Cucurbita* spp. *South Indian Hort.* 1: 13-24.

3019

RAJASEKHARA MUDALIAR, C. *and* KAMATH, H. SUNANDA

1954 Back-water flora of the west coast of south India. *J. Bombay nat. Hist. Soc.* 52(1): 69-82.
An annotated list of 50 species is given for this area, including vernacular names and economic importance. Common species include *Acanthus ilicifolium* and *Aegiceras corniculatum*.

3020

RAJASEKHARA MUDALIAR, C. *and* SUNDARARAJ, D. D.

1949 Proliferation of spikelets in *Pennisetum polystachyum* Schult. (Letter). *Curr. Sci.* 18(8): 301-302.
In a fodder field in Coimbatore, a case of proliferation of a spikelet, i.e., formation of a seedling from the spikelet, was observed.

3021

1954 A short account of the flora of the Tinnevelly District. *Centenary Souvenir of the Madras State Herbarium*. p. 57-63.

3022

RAJAVALLABHA

Rajavallabha nighantu. Bombay, Venkateswara Press. 212p.
In the Sanskrit language and the Devanagari script.

3023

RAJ NATH

1952 On the upper limit of the Gondwana system. *Palaeobotanist.* 1: 382-385.
3024

RAJU, M. V. S.

1952 Embryology of *Anagallis pumila* Sw. *Proc. Indian Acad. Sci.* B. 36(1): 34-42.
3025

1952 Embryology of *Sabiaceae.* (Letter). *Curr. Sci.* 21(4): 107-108.
A study of the embryology of *Meliosma wightii, M. arnottiana* and *M. simplicifolia.* Sixteen bivalent chromosomes have been counted during the first division of the microspore mother cell.
3026

1952 Embryology of the *Passifloraceae.* (Letter). *Curr. Sci.* 21(10): 288-289.
P. foetida and *P. leschenaultii* are the subjects of study.
3027

1954 Pollination mechanism in *Passiflora foetida* L. *Proc. nat. Inst. Sci. India.* 20(4): 431-436.
3028

1956 Embryology of the *Passifloraceae;* gametogenesis and seed development of *Passiflora calcarata* Mast. *J. Indian bot. Soc.* 35(1): 126-138.
Describes the developmental stages of microsporangium and male gametophyte, megasporangium and female gametophyte of *Passiflora calcarata* Mast. Notices double fertilization.
3029

1956 Development of embryo and seed coat in *Turnera ulmifolia* L. var. *angustifolia* Willd. *Bot. Notiser.* 109(3): 308-312.
The development of the embryo follows the onagrad type. The two integuments take part in the formation of the seed coat, whose structure is described in detail.
3030

1957 Some aspects of the embryology of *Dianella nemorosa* Lamk. *J. Indian bot. Soc.* 36(2): 223-226.
3031

RAJU, M. V. S. *and* NAGARAJA RAO, A.

1952 The development of the male and female gametophytes in *Mallotus albus* Muel. Arg. *J. Mysore Univ.* 13(2): 5-8.
3032

RAM, B. S.

1955 Forests and forestry in Himachal Pradesh. *Indian For.* 81: 7-13.
3033

RAM, D.

1907 Note on the flowering, seedling and cutting of *Strobilanthes* in Jaunsar division in 1906. *Indian For.* 33: 451-452.
3034

RAM, MANASI

1956 Floral morphology and embryology of *Trapa bispinosa* Roxb. with a discussion on the systematic position of the genus. *Phytomorph.* 6(3 & 4): 312-323.
3035

1957 Morphological and embryological studies in the family *Santalaceae; Comandra umbellata* (L.) Nutt. *Phytomorph.* 7(1): 24-35.
3036

RAMACHANDRA, K. R.

1950 Common grasses found round about Pillani. (Abstr.). *Proc. Indian Sci. Cong.* iii: 65-66. 3037

1951 Note on the occurrence of monostachous inflorescence in *Eleusine indica* Gaertn. (Letter). *Curr. Sci.* 20(7): 189. 3038

RAMACHANDRAN, G. K. *and* RAMA RAO

Elements of botany. Rochouse & Sons. xii, 162p. 3039

RAMACHANDRA RAO, Y.

1917 Notes on some south Indian Cecidomyiids, causing galls in grasses. *J. Asiat. Soc. Bengal.* (n.s.). 13: 299-306. 3040

1941 A list of more common plants of the desert areas of Sind, Baluchistan, Rajputana, Kathiawar and south-west Punjab with their various local names as far as available. Delhi, Manager of Publications. ii, 45p. (I.C.A.R. Miscellaneous bulletin, no. 43). 3041

RAMAKRISHNAN, K.

1953 *Ascomycetes* from south India *Proc. Indian Acad. Sci.* B. 38: 118-124.
Four new species are described. 3042

1953 *Ascomycetes* in south India. *J. Madras Univ.* 23(2): 145-147.
Two new species are described. 3043

1955 Some aspects of soil fungal ecology. *Proc. Indian Acad. Sci. B.* 41(3): 110-116. 3044

1956 *Sapucchaka*, a new genus of the *Hemisphaeriales*. *J. Indian bot. Soc.* 35(1): 114-116.
Found growing on dead twigs of *Quisqualis indica* L. in the Madras University area. It is called *Sapucchaka madreeya* sp. nov. 3045

1958 Fungal flora of India. *Mem. Indian bot. Soc.* 1(3): 140-144. 3046

RAMAKRISHNAN, K. *and* SUBRAHMANYAM, C. V.

1951 A new species of *Sirobasidium*. *J. Madras Univ.* B. 21: 303-305.
Describes *S. indicum* sp. nov. 3047

1952 The fungi of India—a second supplement. *J. Madras Univ.* B. 22: 1-65.
Records fungi from 1938-1951 which are 812 in number. 16 new genera have been described. 3048

RAMAKRISHNAN, K. *and* SUNDARAM, N. V.

1953 Additions to the fungi of Madras. *Proc. Indian Acad. Sci.* B. 38(5): 187-194.
Several new species are described. 3049

1957 *Neottiospora curcumae* sp. nov. *Proc. Indian Acad. Sci.* B. 45(3): 149-150. 3050

RAMAKRISHNAN, T. S.

1947 Studies in the genus *Colletotrichum*. *Proc. Indian Acad. Sci.* B. 25(1): 15-27.
The results of investigations on certain aspects of the physiology of *C. indicum* and the comparison of the isolates from *Capsicum annuum*, *Cur-*

RAMAKRISHNAN, T. S.—*contd.*

cuma longa, Aristolochia bracteata and *Cicer arietinum* are recorded. The taxonomic position of these isolates is discussed. It is concluded that all of them belong to one species *C. capsici* Syd.

3051

1950 Some interesting rusts of south India. *Indian Phytopath.* 3(1): 43-50.

3052

1954 Abnormalities in the fruit of *Areca catechu* L. *J. Bombay nat. Hist. Soc.* 52(1): 224-225.

3053

1956 Notes on some fungi from south India. *Proc. Indian Acad. Sci.* B. 44(2): 114-121.
Four new species have been described.

3054

1957 Notes on some fungi. *Proc. Indian Acad. Sci.* B. 45(4): 176-180.
Phyllactinia heterophragmitis sp. nov., *P. terminaliae, Phyllacora malloti, Masseeella putranjivae* are new ones. *Ravenelia clemensae* Syd. is also reported.

3055

1957 Notes on some fungi from south India. *Proc. Indian Acad. Sci.* B. 46(3): 149-154.
Exosporium bryophylli Ramakrishna sp. nov. is a new species. Twelve forms have been described.

3056

RAMAKRISHNAN, T. S. *and* RAMAKRISHNAN, K. V.

1947 Additions to the fungi of Madras. *Proc. Indian Acad. Sci.* B. 25: 28-34.
Three species are described of which two are new.

3057

1947 Additions to fungi of Madras. *Proc. Indian Acad. Sci.* B. 25(6): 178-187.
Species 4-9 of the series are described of which three are new.

3058

1947 Additions to Indian fungi. *Proc. Indian Acad. Sci.* B. 26(1): 1-12.
Species 10-15 of this series have been described. Five of them are new.

3059

1947 A new rust on *Dalbergia paniculata* Roxb. *Proc. Indian Acad. Sci.* B. 26(2): 60-63.
This new rust on *Dalbergia paniculata* Roxb. was collected in 1946 from Malayer, Malabar District, South India. It was found different from known rusts and has, therefore, been described as new as *Scopellopsis dalbergiae* Ramakrishnan, T. S. and Ramakrishnan, K. V. This is kept in Mycological Herbarium, Coimbatore, S. India.

3060

1947 Revision of a rust on *Oldenlandia* sp. *Proc. Indian Acad. Sci.* B. 26(2): 64-68.
In 1946, the authors collected rusts on *Oldenlandia stylosa* O. Ktze. and *O. articularis* Gamble.

3061

1948 Additions to fungi of Madras. *Proc. Indian Acad. Sci.* B. 27(2): 33-46.
Species 16-23 of the series are described, all being new. They were collected from different parts of Coimbatore and Madura District.

3062

RAMAKRISHNAN, T. S. *and*
RAMAKRISHNAN, K. V.—*contd.*

1948 Additions to fungi of Madras. *Proc. Indian Acad. Sci.* B. 28(2): 56-70.
Species 26 to 41 of this series have been described of which 9 species are new.
3063

1948 *Exobasidium* from south India. *Proc. Indian Acad. Sci.* B. 29(1): 5-12.
Six species of *Exobasidium* have been described. They were collected from the leaves of various plants in south India.
3064

1949 Additions to fungi of Madras. *Proc. Indian Acad. Sci.* B. 29(2): 48-58.
Seven species and some new records have been described.
3065

1955 Additions to the fungi of Madras. *Proc. Indian Acad. Sci.* B. 41(5): 189-195.
16 species are recorded.
3066

RAMAKRISHNAN, T. S. *and*
RANGASWAMI, G.

1948 *Uromyces acori* Ramakrishnan and Rangaswami sp. nov. on *Acorus calamus* L. (Letter). *Curr. Sci.* 17(8): 240-241.
3067

RAMAKRISHNAN, T. S. *and*
SOUMINI, C. K.

1947 A new rust on *Premna tomentosa* Willd. *Proc. Indian Acad. Sci.* B. 25(1): 35-37.
Crossopsora premnae tomentosae sp. nov. is the new rust living on the leaves of *Premna tomentosa.*
3068

RAMAKRISHNAN, T. S. *and*
SRINIVASAN, K. V.

1950 On two new rust fungi. *Curr. Sci.* 19(1): 25-27.
Describes *Uromyces triandrae* Ramakrishnan and Srinivasan and *Uromyces orthosiphonis* Ramakrishnan and Srinivasan, which were collected from Burliar at the foot of the Nilgiris. These infected the leaves of *Themeda triandra* Forsk. and *Orthosiphon glabratus* Bth.
3069

RAMAKRISHNAN, T. S. *and*
SUNDARAM, N. V.

1954 Additions to fungi of Madras. *Proc. India n Acad. Sci.* B. 40(1): 17-23.
Six species have been described.
3070

1955 Additions to the fungi of Madras. *Proc. Indian Acad. Sci.* B. 41(4): 189-195.
3071

1955 Studies of the rust on *Setaria italica. Proc. Indian Acad. Sci.* B. 41(6): 241-246.
3072

1955 Additions to the fungi of Madras. *Proc. Indian Acad. Sci.* B. 42(2): 58-64.
3073

1956 The life-history of *Puccinia romagnoliana* Maire and Sacc. *Proc. Indian Acad. Sci.* B. 43(2): 95-99.
3074

RAMAM, S. S.

1954 Gametogenesis and fertilisation of *Stephegyne parviflora* Korth. *Agra Univ. J. Res.* 3(2): 343-348.
Embryosac development is of the *Polygonum* type.
3075

RAMAN, C. V. *and others*

1949 Biographical notices on Birbal Sahni, by C. V. Raman, Shri Ranjan, M. O. P. Iyengar, A. R. Rao and T. S. Sadasivan. *Curr. Sci.* 18(5): 158-165.
3076

RAMAN, V. S. *and* KRISHNASWAMI, N.

1955 A chromosomal chimera in *Sorghum halepense* L. *Indian J. agric. Sci.* 25(3): 47-50.
3077

RAMANATHAN, K.

1950 Addendum to list of chromosome numbers in economic plants. (Letter). *Curr. Sci.* 19(5): 155.
Chromosome numbers of six species of *Leguminosae* and 10 species of *Gramineae* are given in a table.
3078

1955 Chromosome numbers in Indian desert plants. *Curr. Sci.* 24(1): 17.
The plants dealt with grew in and around Pillani.
3079

RAMANATHAN, K. R.

1936 On the cytological evidence for an alternation of generations in *Enteromorpha*. *J. Indian bot. Soc.* 15: 55.
3080

1938 On a form of *Anabaenopsis* from Madras. *J. Indian bot. Soc.* 17: 325-329.
3081

1939 The morphology, cytology and alternation of generations in *Enteromorpha compressa* (L.) Grev. var. *lingulata* (J. A. G.) Hauck. *Ann. Bot. Lond.* (n.s.). 31(10): 375-398.
3082

1939 On the mechanism of spore liberation in *Pithophora polymorpha* Wittr. *J. Indian bot. Soc.* 18(1): 25-29.
3083

1942 On the oogamous sexual reproduction in a *Carteria*. *J. Indian bot. Soc.* 21(1 & 2): 129-135.
Carteria iyengarii Ramanathan sp. nov. is studied.
3084

1946 *Chrysodictyon indicum* gen. et sp. nov., a new member of the *Chrysophyceae* from south India. *M. O. P. Iyengar Comm. Vol.* p. 184-190.
3084a

RAMANUJAM, C. G. K.

1953 *Palmoxylon arcotense* sp. nov., a fossil palm, resembling the living genus *Livistona* from S. India. *Palaeobotanist.* 2: 89-91.
3085

1953 On two new species of *Mesembrioxylon* from the vicinity of Pondicherry, S. India. *Palaeobotanist.* 2: 101-106.
3086

1953 Fossil woods resembling *Mangifera, Shorea,* and *Albizzia* in the tertiary rocks of S. Arcot. *Curr. Sci.* 22(11): 336-337.
In this note specimens of dicotyledonous woods (fossil) found in Mortandra (Cuddalore Sandstones) near Pondicherry are described.
3087

1954 On some silicified woods from near Pondicherry, S. India. *Palaeobotanist.* 3: 40-50.
3088

RAMANUJAM, C. G. K.—*contd.*

1955 Fossil woods of *Dipterocarpaceae* from the tertiary of South Arcot, Madras. *Palaeobotanist.* 4: 45-56.
Shoreoxylon holdeni sp. nov., *S. mortandranse* sp. nov. and *Dipterocarpoxylon indicum* are the new fossil woods described.
3089

1956 Fossil woods of the *Euphorbiaceae* from the tertiary rocks of South Arcot District, Madras. *J. Indian bot. Soc.* 35(3): 204-207.
Three new genera of fossil woods of the *Euphorbiaceae* from Mortandra, north of Pondicherry have been described.
3090

1956 On two new species of *Terminalioxylon* Schonfeld from the tertiary of South Arcot District, Madras. *J. Indian bot. Soc.* 35(1): 103-113.
Deals with two new species of *Terminalioxylon* Schonfeld, collected in 1952 from near Murttangi and Timachimangalam near Pondicherry, Madras.
3091

1957 Cone scales of *Araucarites cutchensis* from the Rajmahal Hills, Bihar. *Curr. Sci.* 26(2): 87-88.
Three cone scales of *Araucarites* collected from Onthea are described.
3092

1957 On a new specimen of *Marattiopsis macrocarpa* from the Rajmahal Hills, Behar. *Sci. & Cult.* 23(5): 253-254.
The specimen was collected from Onthea in the Rajmahal Hills, Bihar.
3093

1958 *Palmoxylon puratanum* sp. nov. of petrified palms from the tertiary rocks of South Arcot, Madras. *J. Indian bot. Soc.* 37(1): 128-137.
3094

RAMANUJAM, S.

1938 Cytogenetical studies in the *Oryzeae;* chromosome studies in the *Oryzeae. Ann. Bot. Lond.* (n.s.). 2: 107-125.
The position of *Oryzeae* in *Gramineae* is discussed and it is stated that it is closely related to the *Panicoideae* by the presence of the basic number of 5 chromosomes than to the *Poaoideae.*
3095

1938 Cytogenetical studies in the *Oryzeae;* cytogenetical behaviour of an autotriploid in rice (*Oryza sativa* L.). *J. Genet.* 35(2): 183-221.
3096

1938 Cytogenetic behaviour of interspecific hybrid in *Oryza. J. Genet.* 35(2): 223.
3097

1940 Autotriploidy in Toria (*Brassica campestris* L.). *Curr. Sci.* 9(7): 325-326.
3098

1941 Chromosome number of *Sesamum prostatum* Retz. (Letter). *Curr. Sci.* 10(10): 439-440.
Records the number of chromosomes in the wild species of *Sesamum prostratum.* The gametic chromosome number of this species is 16, whereas that of *Sesamum indicum* or as it is now called *S. orientale,* the cultivated Til, is 13.
3099

1941 A haploid plant in Toria (*Brassica campestris* L.). *Proc. Indian Acad. Sci.* B. 14(1): 25-34.
A spontaneously occurring haploid plant in one of the open pollinated culture of Toria is described for the first time. The haploid plant was reduced replica of the diploid plant with smaller leaves and flowers. The chromosome number of the haploid was determined to be 10 and of the diploid 20.
3100

1944 The cytogenetics of an amphi-diploid *Sesamum orientale* × *S. prostratum*. *Curr. Sci.* 13(2): 40-41.
A description of the cytogenetical behaviour of the amphi-diploid, the hybrid between *Sesamum orientale* × *S. prostratum*, under colchicinic treatment. It had 58 chromosomes, the total of those of the two parents. Proposes to name it as a new species *S. indicatum*.
3101

RAMANUJAM, S. *and* JOSHI, A. D.
1954 Identity and taxonomical status of *Sesamum ekambaramii* Naidu. *J. Bombay nat. Hist. Soc.* 52(1): 657.
3102

RAMANUJAM, S. *and* PARTHASARATHY, N.
1935 An asynoptic mutant in rice (*Oryza sativa*). *Proc. Indian Acad. Sci.* B. 2: 80-87.
3103

RAMA RAO, L.
1937 Report of a symposium on Wegener's theory of continental drift, held in Hyderabad in January, 1931. *Curr. Sci.* 6: 506-507.
3104

1942 The cretaceous rocks of south India. *Lucknow Univ. Stud.* 17: 1-78.
3105

1949 The importance of micro-palaeontological studies in India. *Proc. Indian Acad. Sci.* B. 29(1): 1-4.
Presidential address delivered at the scientific meeting of the Indian Academy of Sciences held on 27th December, 1948, at Bangalore. The discovery of the existence of a large number of fossil algae from the cretaceous beds of Niniyur in south India holds out the promise of a rich collection of fossil algae from Indian rocks. Stresses the need of extensive study of these fossil algae collections.
3106

1950 Some aspects of Deccan traps—a review. *J. Mysore Univ.* 10(4): 25-39.
3107

1952 Recent discoveries of fossil algae in India. *Palaeobotanist.* 1: 386-391.
Gives a brief review of investigations on the fossil algae of India and discusses the great scope and possibilities in India for further research in this field.
3108

1954 On *Charas* from the Yellur Intertrappean bed. *J. Univ. Poona.* 6: 108-109.
3109

1956 Recent contributions to our knowledge of the cretaceous rocks of south India. *Proc. Indian Acad. Sci.* B. 44(4): 185-245.

RAMA RAO, L.—*contd.*

Gives an account of our present knowledge of the cretaceous rocks of south India with special reference to recent studies. Reveals the vast scope for further exploration and research in the field of micropalaeontological studies. The occurrence of fossil algae in the Niniyur group has been dealt with at length giving a list of fossil algae that have been described from the rocks in this area.

3110

RAMA RAO, L., NARAYANA, S. R. *and* SRIPADA RAO, K.

1936 On the age of the Deccan traps near Rajahmundry. *Proc. Indian Acad. Sci.* B. 3: 157-164.

3111

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1937 Genus *Zygnemopsis* in northern India. *Proc. Indian Acad. Sci.* B. 5(6): 297-314.
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RANDHAWA, M. S.—*contd.*

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RANGANATHAN, R.

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RANGASWAMI, S.

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1953 Some observations on the Rajmahal flora. *Palaeobotanist.* 2: 25-28.

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1955 Some observations on the pollen found in Indian tertiary lignites. *Palaeobotanist.* 4: 57-59.

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1957 Contributions to our knowledge of the Deccan Intertrappean flora. *Palaeobotanist.* 6(1): 19-21.

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This is a brief review of the work done by Indian botanists between the years 1939 and 1950 on gymnosperms, both living and extinct. The subject is treated under *Pteriodosperms, Cordaitales, Caytoniales, Gnetales, Ginkgoales, Cycadophyta, Taxineae, Podocarpineae, Araucarineae, Cupressineae* and doubtful gymnosperms.

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Traces the study of Indian palaeobotany and the contributions to it from the earliest times. Bibliography on p. 39-57.

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RAO, A. R. *and* VIMAL, K. P.

1950 On a small collection of plant fossils from Sourashtra. (Letter). *Curr. Sci.* 19(6): 175-176.
Plant fossils collected from Tartar and Dhuli, near Thana Railway Station, Sourashtra have been identified as *Sphenopteris* sp., *Cladophlebis* sp., *Brachyphyllum* sp. and *Araucarites cutchensis*.

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Samples of lignites from Bikaner contained a number of microfossils which are described.

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1951 Tertiary pollen from Palana lignites (Eocene), Bikaner. (Abstr.). *Proc. 38th Indian Sci. Cong.*

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1952 Tertiary pollen from lignites from Palana (Eocene), Bikaner. *Proc. nat. Inst. Sci. India*. 18(6): 595-601.
Examination of lignites collected from a seam at Palana revealed the occurrence of a number of microfossils, small bits of cuticles of leaves and stems, pieces of wood, fungal and other kinds of spores, mycelia and pollen.

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These lignites on maceration yielded a large number of microfossils like spores, pollen, cuticles, etc. This note is an account of them. One type of monoble spore and nine different types of pollen have been described.

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RAO, C. S.

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1935 The structure and life history of *Azolla pinnata* R. Br. with remarks on the fossil history of the *Hydropterideae*. *Proc. Indian Acad. Sci.* B. 2: 175-200.
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1939 Cuticular studies of the *Magnoliales*. *Proc. Indian Acad. Sci.* B. 9(2): 99-116.
The question of the position of *Magnoliales* has been studied from the point of view of the epidermal features. From this point of view, the *Magnoliales* do not represent a co-sanguinary group, but indicates a divergence.
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RAO, J. T. *and* BABU, C. N.

1953 Chromosome numbers of certain species of *Erianthus* Michx. *Curr. Sci.* 22(7): 217.
Chromosome numbers of *Erianthus ravennae, E. munja* and *E. arundinaceus* have been recorded. They range 2x=20, 30, 40 and 60. These numbers confirm the occurrence of polyploidy in the genus.
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1955 Chromosome numbers in *Saccharum spontaneum* L. *Curr. Sci.* 24(2): 53-54.
Certain observations made in the course of the work of the *Spontaneum* expedition scheme. Haploid chromosome numbers for about 180 variants of *S. spontaneum* have been determined.
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Anatomical data show a positive relationship between the dimension of the cells and the chromosome number. For a 100 p.c. increase in chromosome, there is 140 p.c. increase in cell volume.
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RAO, J. T., KANDSWAMY, P. A. *and* KRISHNAKUMARI, R.

1957 Tannin in root tip as a probable generic character of *Erianthus* Michx. *Curr. Sci.* 26(7): 219-220.
Occurrence of Tannin in the root tips of six species of *Erianthus* and its absence from the root tips of species of *Saccharum, Sclerostachya* and

Narenga, examined at the Sugarcane Station, Coimbatore, suggest the possibility of separate generic status for the genus *Erianthus*.

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RAO, K. V. N.

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RAO, L. N.

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1931 Bisporangiate cones of *Pinus longifolia* and *Picea morinda*. *J. Indian bot. Soc.* 10: 232.

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1936 A note on the pistillody in *Hibiscus syriacus* Linn. *Curr. Sci.* 5(6): 301-302.

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1937 A note on the variation in leaf-form and ascidium formation in *Tabernaemontana coronaria* R. Br. *J. Indian bot. Soc.* 16(4): 217-221.

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1937 Perennation in *Cuscuta reflexa* Roxb. *Curr. Sci.* 5(10): 537-538.

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1938 Flowering branches from the Curd of *Brassica oleracea* L. var. *botrytis* Dc. *Curr. Sci.* 7(5): 237-238.

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1938 Perennation in *Cuscuta reflexa* Roxb. *New Phytol.* 37(2): 474-477.

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1938 A case of triple parasitism; *Loranthus* Vs. *Viscum*. *Curr. Sci.* 7(3): 112.

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1941 Cytology of *Hibiscus trionum* L. *New Phytol.* 41(4): 326-335.

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1942 Parasitism in *Santalaceae*. *Ann. Bot. Lond.* (n.s.). 6(21): 131-150.

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1942 Studies in *Santalaceae*. *Ann. Bot. Lond.* (n.s.). 6(21): 151-175.

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1944 A new species of *Isoetes* from Bangalore, Mysore State. *Curr. Sci.* 13: 286-287. Describes *Isoetes sampathkumarani* sp. nov.

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RAO, M. B. *and* NAGARAJAN, S. S.

1957 A case of epigoeous fructification in *Arachis hypogaea* L. *Curr. Sci.* 26(6): 184-185.

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RAO, M. R. S.

1949 Algal structure from the Cuddappa limestone (Pre-cambrian), S. India. *J. Mysore Univ.* 9(4): 67-72.

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RAO, N. S.

1929 On the chromosome numbers of some cultivated plants of India. *J. Indian bot. Soc.* 8: 126.

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1929 A note on the use of vacuum flasks in paraffin inbedding. *J. Indian bot. Soc.* 8. 131.

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1929 Further contribution to the cytology of some crop plants of south India. *J. Indian bot. Soc.* 8: 201.

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1930 On reduction division in the pollen mother cells of *Cyanotis cristata*. *J. Indian bot. Soc.* 9: 79.

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1933 A note on the emission of globules of basophilic material from the nucleus into the cytoplasm during the telophase of the nuclear division. *J. Indian bot. Soc.* 12: 287.

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RAO, P. N., SALAM, M. A. *and* THIRUMALACHAR, M. J.

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SAMBE GOWDA, S.

1953 Occurrence of a *Holosporella* in the Niniyur group (Danian) of the Trichinopoly cretaceous, S. India. *Curr. Sci.* 22(6): 169-170.
Rich and a variety of exceedingly well preserved *Dasycladaceae*, not hitherto described, has been found in the cherts near Otakorl. similar to those of the Niniyur group.
3703

SAMPATH, S.

1947 Chromosome numbers in *Sesbania* sp. (Letter). *Curr. Sci.* 16(1): 30-36.
To clear the discrepancies in the results of previous works, fresh counts were made in Coimbatore. Autopolyploidy occurred in *S. aculeata* and *S. grandiflora*.
3704

1950 Chromosome diminution in a plant root. (Letter). *Curr. Sci.* 19(6): 185-186.
Chromosome diminution in root tips of polyploid plants observed. Shows that there is unexpected source of error in determining chromosomes of polyploids from root tips.
3705

1952 Plant ecology of Jodhpur and its neighbourhood; a contribution to the ecology of north-western Rajasthan. *Bull. nat. Inst. Sci. India.* 1: 223-232.
3706

SAMPSON, H. C.

1923 The coconut palm: the science and practice of coconut cultivation. London, J. Bate & Daniels Ltd. xiv, 262 p.
3707

1936 Cultivated crops of the British Empire and of the Anglo-Egyptian Sudan (Tropical and sub-tropical) based on information which has been supplied by the Departments of Agriculture concerned. *Kew Bull.* 12: i-viii, 1-257.
3708

SAMUELSSON, G.

1914 Uber die Pollenentwicklung von *Anona* und *Aristolochia* und ihre systematische Bedeutung. *Svensk. Bot. Tidskr.* 8: 181-189.
3709

1926 *Helobiae* und *Lemnaceae*. *Acta Hort gothoburg.* 2: 83-85.
An annotated list of the species of *Potamogeton, Zannichellia, Najas, Triglochin, Alisma, Hydrilla, Vallisneria* and *Lemna*.
3710

1932 *Alisma* L. *Pflanzenarzt.* 3: 88-90.
3711

1932 Die Arten der Gattung *Alisma* L. *Ark. Bot.* 24: 1-46.
3712

SANDER, H. F.

1892-94 Reichenbachia; Orchids illustrated and described. St. Albans, F. Sander & Co.; New York, I. Forstermann. 2v.
A second series was also issued. Text in the English, French and German languages.
3713

SANDFORD, E.

1882 A manual of exotic ferns and *Selaginella*, comprising descriptions of over one thousand species and varieties and upwards of six hundred synonyms, also notes on their history, culture and management. London, H. J. Infield. 286 p.
3714

SANDURTH, N. Y.

1946 *Gomphrena celosioides* Mart., a weed spreading in the old world tropics. *Kew Bull.* [ ]: 29-30.

3715

SANE, P. V.

1942 Observations on some species of *Anthoceros* L. from Poona and the neighbouring hills of the Western Ghats. *J. Univ. Bombay.* (n.s.). B. 10(5): 86-96.

3716

SANKARA DAJI SASTRY

Vanoushadi vignyan. Bombay, Hari Sankar Apte's Printing Press. 100 p.
In the Hindi language.

3717

SANKARA SASTRY, VETURI

1950 Vaidya nighantu. Madras, Govt. Oriental Mss. Library. 108 p.
In the Telugu language.

3718

SANKHATA, K. S.

1952 Enumeration of the flowering plants of north western Rajasthan. *Univ. Rajputana Stud.* 1: 43-56.

3719

SANTAPAU, H.

1944 *Ventilago bombaiensis* Dalz. *J. Bombay nat. Hist. Soc.* 44: 496.

3720

1945 New plant records for Bombay Presidency. *J. Bombay nat. Hist. Soc.* 45: 445-448.

3721

1945 *Curcuma pseudomontana* Grah. *J. Bombay nat. Hist. Soc.* 45: 618-624.

3722

1946 Artificial key to the *Compositae* of Bombay Presidency. *Indian Ecol.* 1: 63-66.

3723

1946 New plant records for the Presidency of Bombay. *J. Bombay nat. Hist. Soc.* 46: 377-381.

3724

1946 Variation in the numbers of floral parts of *Jasminum malabaricum* Wt. *J. Bombay nat. Hist. Soc.* 46: 563-566.

3725

1947 Notes on the *Convolvulaceae* of Bombay. *J. Bombay nat. Hist. Soc.* 47: 337-354.
The species of the *Convolvulaceae,* occuring in the Bombay State, have been revised in this paper. Van Oostroom's monograph on the *Convolvulaceae* (1940) in *Blumea* has been followed.

3726

1948 Notes on the *Solanaceae* of Bombay. *J. Bombay nat. Hist. Soc.* 47: 652-662.

3727

1948 New plant names from India. *Kew Bull.* 2: 276.
They are *Cissus woodrowii* (Stapf) Sant., *Asystasia dalzelliana* Sant., *Phaulopsis dorsiflora* (Retz.) Sant., *Syzygium phillyraeoides* (Trim.) Sant., *Phaseolus khandallensis* Sant., *Desmodium triangulare* (Retz.) var. *congestum* (Prain) Sant.

3728

1948 *Sarcochilus dalzellianus* Santapau. *Kew Bull.* 3: 498.

3729

1949 An artificial key to the *Papilionaceae* of Bombay Province. *J. Bombay nat. Hist. Soc.* 48: 277-282.

3730

SANTAPAU, H.—*contd.*

1949 Notes on the *Gesneriaceae* of Bombay. *J. Bombay nat. Hist. Soc.* 48: 489-492.
Species belonging to 6 genera are discussed with an artificial generic key.
3731

1949 *Ventilago maderaspatana* Gaertn. var. *fructifida* Santapau var. nov. *Kew Bull.* 3: 340.
3732

1949 Novitates Bombayenses. *Kew Bull.* 3: 485-492.
Five new species and nine new combinations have been described.
3733

1950 Iter Kathiawarense, being notes on a botanical tour in Nawanagar State, Oct.-Nov., 1945. *J. Gujarat Res. Soc.* 11 & 12: 226-237.
An account of a tour of inspection of the State by the author. Vegetation is reported to be xerophytic in character.
3734

1950 Notes on the *Scrophulariaceae* of Bombay. *J. Bombay nat. Hist. Soc.* 49: 25-49.
The author has introduced a number of nomenclatural changes of the plants of this family occurring in *Hks. Fl. Brit. India.* They are *Kickxia ramosissima* (Wall.) Janchen and *K. incana* (Wall.) Pennell for *Linaria ramosissima* Wall. and *L. incana* Wall. respectively; *Sutera dissecta* (Del.) Walp. (=*Sutera glandulosa* Roth); *Bacopa monnieri* (Linn.) Pennell (=*Herpestis monniera* Bth.); *Bacopa floribunda.* (R. Br.) Wettst. (=*Herpestis floribunda* R. Br.); *Limnophila rugosa* (Roth) Merrill (=*Limnophila roxburghii* G. Don); *Limnophila aromatica* (Lamk.) Merr. (=*L. gratissima* Bl.); *Limnophila indica* (L.) Druce (=*L. gratioloides* R. Br. and *L. racemosa* Bth). Besides, changes in *Vandellia, Bonnaya, Peplidium, Striga, Lindenbergia, Centranthera* have also been introduced.
3735

1950 A plea for the preservation of wild plants. *J. Bombay nat. Hist. Soc.* 49: 427-429.
3736

1950 Further remarks on the flowering of *Strobilanthes. J. Bombay nat. Hist. Soc.* 49: 575-576.
3737

1950 The genus *Dioscorea* in Bombay State. *J. Bombay nat. Hist. Soc.* 49: 624-636.
3738

1950 New record of *Frerea indica* Dalz. in Bombay Province. *J. Bombay nat. Hist. Soc.* 49: 801-802.
3739

1950 Notes on the *Lentibulariaceae* of Bombay. *J. Bombay nat. Hist. Soc.* 49: 217-221.
3740

1952 The *Acanthaceae* of Bombay. *Univ. Bombay bot. Mem.* 2.
"He has taken all care in compiling this volume by comparing and listing all the plants he could get at Kew and other herbaria and has also added the information based on his own observations."—T. S. Mahabale, Preface.
3741

SANTAPAU, H.—*contd.*

1952 A contribution to the flora of Simhagadh Hill, Poona District. *Poona agric. Coll. Mag.* 41: 270-284.
3742

1952 The need for a revision of Hooker's *Flora of British India*. *J. Sci. Industr. Res.* A. 11: 529-532.
3743

1952 Critical notes on the identity and nomenclature of some Bombay plants. *J. Bombay nat. Hist. Soc.* 50: 305-312.
3744

1952 Report of the work done under the auspices of the Saurashtra Research Society for the botanical survey of Saurashtra. *Ann. Rept. Saurashtra Res. Soc.* [ ]: 9-20.
3745

1952 Report of the second field season in the botanical survey of Saurashtra. Rajkot, Saurashtra Research Society. 12 p.
3746

1952 Report of the third field season in the botanical survey of Saurashtra. Rajkot, Saurashtra Research Society. 16 p.
3747

1952-53 Contribution to the bibliography of Indian botany. *J. Bombay nat. Hist. Soc.* 50: 520-548; 51: 205-259.
3748

1953 Plants of Saurashtra—a preliminary list. Rajkot, Saurashtra Research Society. 45p.
3749

1953 The genus *Dipteracanthus* in India. *Indian For.* 79: 321-323.
3750

1953 *Curcuma pseudomontana* en Bombay (India). *Ann. Jard. bot. Madrid.* 11: 267-279.
3751

1953 Excursion botanica a Mahabaleshwar, estado de Bombay (India). *Ann. Jard bot. Madrid.* 11: 281-317.
3752

1953 New complications in the naming of plant species. *Indian For.* 79: 611-613.
3753

1953 The flora of Khandala on the Western Ghats of India. *Rec. bot. Surv. India.* 16(1): i-xxvii, 1-396.
3754

1953 On a common species of *Curcuma* of Bombay and Salsette Islands. *J. Bombay nat. Hist. Soc.* 51: 135-139.
3755

1953 Notes on the *Acanthaceae* of Bombay. *J. Bombay nat. Hist. Soc.* 51: 349-368.
3756

1953 Critical notes on the identity and nomenclature of some Bombay plants; the genus *Zizyphus* Mill. *J. Bombay nat. Hist. Soc.* 51(4): 801-804.
3757

1953 The species of *Crotalaria* in Bombay. *J. Bombay nat. Hist. Soc.* 51(4): 940-962.
3758

1953 The genus *Euphorbia* in Bombay. *Bull. bot. Soc. Bengal.* 8(1 & 2): 1-17.
The aim of the author is to revise the whole family of *Euphorbiaceae*. 33 species are described in this paper.
3759

SANTAPAU, H.—*contd.*

1954 John Forbes Royle and the Himalayas. *Himalaya.* 1(3): 52-58.
3760

1954 Annual excursion of the Indian Botanical Society, Hyderabad, Deccan. *J. Indian bot. Soc.* 33: 78-92.
3761

1954 The Blatter Herbarium, Bombay. *Centenary Souvenir of the Madras State Herbarium.* p. 38-47.
A list of publications from the Blatter Herbarium is given on p. 45-47.
3762

1954 The revival of the Botanical Survey of India. *Sci. & Cult.* 19: 377-381.
3763

1954-55 Contribution to the botany of the Dangs forest, Bombay State. *J. Gujarat Res. Soc.* 16: 285-320; 17: 1-59.
3764

1955 The genus *Murdannia* in Bombay State. *J. Bombay nat. Hist. Soc.* 52: 658.
3765

1955 Contributions to the botany of the Dangs forest, Bombay State. Bombay, Gujarat Research Society. ii, 95 p.
Records the results obtained in two excursions to the Dangs forest conducted by the author, under the auspices of the Gujarat Research Society. Records 475 species of plants.
3766

1955 New plant records for Bombay. *J. Bombay nat. Hist. Soc.* 53: 210-216.
Nine additional records for Bombay are given. Full descriptions and figures are given for each. One of them is *Eupatorium repandum.*
3767

1955 *Laurentia longiflora* Endl., a new record for Bombay State. *J. Bombay nat. Hist. Soc.* 53: 156-157.
3768

1955 Instructions for field collectors of the Botanical Survey of India. New Delhi. 16 p.
3769

1955 A botanical excursion to north Kanara, Bombay State, in May 1954. *J. Bombay nat. Hist. Soc.* 53: 10-28.
3770

1955 Botanical collector's manual. New Delhi, Ministry of Natural Resources and Scientific Research. v, 62 p.
Deals with the materials and methods of plant collections, preparation and preservation of specimens for the herbarium. A list of references for herbarium work is furnished.
3771

1955 Excursion of the Indian Botanical Society to Pavagarh Hill near Baroda, on January 7th, 1955. *J. Indian Bot. Soc.* 34: 158-189.
243 species are enumerated.
3772

1956 Excessive loss of water by forest trees in the Dangs forest. *J. Bombay nat. Hist. Soc.* 53(3): 501.
3773

1956 The name of *Hoya pendula. J. Bombay nat. Hist. Soc.* 53(3): 504.
Hoya iconum Santapau nom. nov. is a new name for one of the two plants bearing the same name.
3774

SANTAPAU, H.—*contd.*

1956 The botanical exploration of India. *J. Indian bot. Soc.* 35(1): 1-6.
Presidential address delivered at the 35th Annual meeting of the Indian Botanical Society held at Agra in January 1956. Stresses the need for botanical exploration in India in all the seasons and intensive collection of plants.
3775

1956 Annual foray of the Indian Botanical Society to Bund Bareta, Agra, in January, 1956. *J. Indian bot. Soc.* 35(3): 265-276.
127 species are enumerated.
3776

1956 La esploracion botanica de Saurashtra en el No. de la Indie. *Ann. Inst. Bot. Cavanilles.* 13: 423-454.
3777

1956 The poisonous qualities of *Calotropis gigantea* R. Br. *J. Bombay nat. Hist. Soc.* 54: 218.
3778

1957 Further notes on the Indian species of *Curcuma* (*Zingiberaceae*). *J. Bombay nat. Hist. Soc.* 54: 966-967.
3779

1957 Scheme for the preparation of local floras. *Andhra Univ. bot. Ass. Mag.* 4: 1-8.
3780

1957 The botanical exploration of Andhra State; or, Botanical notes on a tour in the northern parts of Andhra in October, 1956. *Andhra Univ. bot. Ass. Mag.* 4: 9-21.
3781

1957 The species of *Lagenandra* of Bombay and Madras. *J. Bombay nat. Hist. Soc.* 54: 967—969.
Lagenandra ovata and *Cryptocoryne meeboldii* Engl. are discussed.
3782

1957 *Eclipta prostrata, E. erecta* or *E. alba*: which is the correct name? *J. Bombay nat. Hist Soc.* 54: 475-476.
According to the international rules of botanical nomenclature *E. prostrata* is the valid name and the rest, synonyms of it.
3783

1957 *Alternanthera paronychioides* St. Hil—a correction. *J. Bombay nat. Hist. Soc.* 54: 476-477.
Two species were hitherto mixed up in this name. They should be kept separate. They are *A. paronychioides* and *A. ficoidea* (L.) R. Br.
3784

1958 The coconut, *Cocos nucifera* Linn.; observations of the first English Jesuit in India. *J. Bombay nat. Hist. Soc.* 55: 188-189.
3785

1958 Floristic studies in India. *Mem. Indian bot. Soc.* 1(3): 117-121.
3786

1958 The flora of Purandhar; or, An enumeration of all the phanerogamic plants discovered in Purandhar during the years 1944-1956. New Delhi. 158 p.
3787

1958 Know your trees. *State Transport Review, Bombay.* 8(9): 40-41.
This is the beginning of a long series of articles dealing with the commoner trees of Bombay streets, each article usually with a coloured plate.
3788

1958 History of botanical researches in India, Burma and Ceylon; Part 2—systematic botany of angiosperms. Bangalore, Indian Botanical Society. vii 77 p.

3789

SANTAPAU, H., BANERJI, M. L. *and* KAPADIA, G.

1958 Additions and corrections to the Indo-Nepalese flora. *Proc. nat. Inst. Sci. India* B. 24(3): 133-139.

3790

SANTAPAU, H. *and* BOLE, P. V.

1952 A note on *Neurocanthus sphaerostachys* Dalz. *J. Bombay nat. Hist. Soc.* 50: 428-430.

3791

SANTAPAU, H. *and* D'CRUZ, R.

1952 A note on the Jayakrishna Indraji Thaker collections of plants preserved in the Herbarium of the Agricultural College, Poona. *Agric. Coll. Mag. Poona.* 42: 210-233.

3792

SANTAPAU, H., DESAI, R. M. *and* KSHIRSAGAR, G. R.

1954-55 Text book of biology. Allahabad, Kitab Mahal. 2v.

3793

SANTAPAU, H. *and* FERNANDES, R. R.

1955 A new species of *Chlorophytum* from Salsette Island: *C. borivilianum* Santapau & Fernandes. *J. Bombay nat Hist. Soc.* 52: 897-900.

3794

SANTAPAU, H. *and* KAPADIA, Z.

1956 Notes on *Aerides maculosum* Lindl. *J. Bombay nat. Hist. Soc.* 54: 220-221.

3795

1957 *Habenaria panchganiensis*—new name for a Bombay Orchid. *J. Bombay nat. Hist. Soc.* 54: 478.

H. panchganiensis is the new name for what was known hitherto as *Habenaria variabilis* as the latter name is a homonym.

3796

SANTAPAU, H. *and* PANTHAKI, D.

1956 *Dolichos bracteatus* Baker. *J. Bombay nat. Hist Soc.* 53: 501-502.

A new name *D. ghaticus* Santapau & Panthaki nom. nov. replaces the one given by Baker, as it is invalidated by an earlier name.

3797

1956 Some new plants for the Dangs forest, Bombay State. *J. Bombay nat. Hist. Soc.* 54: 221-225.

Indigofera oreophila sp. nov. and *Moghania praecox* H.L. Li var. *robusta* Mukherjee are new to the area.

3798

SANTAPAU, H. *and* PATEL, V.

1957 The genus *Cuscuta* in Bombay. *J. Bombay nat. Hist. Soc.* 54: 707-713.

Five species of *Cuscuta*, occurring in Bombay, have been described with their distribution.

3799

1957 *Ipomoea tropica*, a new name for a common Bombay plant. *J. Bombay nat. Hist. Soc.* 54: 798-799.

I. tropica Sant. & Patel is the name given now for the plant hitherto known as *I. calycina* Cl. in *Hk's Fl. Brit. India.*

3800

SANTAPAU, H. *and* RAIZADA, M. B.

1954 Contribution to the flora of the Gir forest in Saurashtra. *Indian For.* 80: 379-389.

3801

1956 Contribution to the flora of the Gir forest in Saurashtra. *In-*

SANTAPAU, H. *and*
RAIZADA, M. B.—*contd.*
dian For. Rec. (*n.s.*) *Bot.* 4: 105-170.
3802

SANTAPAU, H. *and* RANDERIA, A. J.
1955 The botanical exploration of the Krishnagiri Park, Borivli, near Bombay. *J. Bombay nat. Hist. Soc.* 53: 185-200.
Floristic elements of Asia Minor, Africa and Malaya occur besides Indian itself. The ten most dominant families in order of number of species are *Compositae, Acanthaceae, Convolvulaceae, Rubiaceae* and *Scrophulariaceae,* etc.
3803

SANTAPAU, H. *and* SHAH, G. L.
1958 The phyllotaxy of *Euphorbia neriifolia* L. *J. Bombay nat. Hist. Soc.* 55: 186-187.
3804

SANTOS, JOSE K.
1931 Anomalous stem structure in *Archangelisia* and *Anamirta cocculus* from the Philippines. *Philipp. J. Sci.* 44(4): 385-407.
3805

1932 The lactiferous vessels and other anatomical structures of *Excoecaria agallocha. Philipp. J. Sci.* 47(2): 295-304.
3806

SANYAL, A.
1957 Additional notes on the botany of Bihar and Orissa by H. H. Haines and its supplement by Dr. H. Mooney. *Indian For.* 83(3): 230-235.
Additional records of species are noted.
3807

SANYAL, DEVAPRASAD
1924 Vegetable drugs of India. Calcutta, the author. 397 p.
Compiles a list of vegetable drugs with their physical characters, properties and uses. Vernacular names are given in each case.
3808

SANYAL, P. K.
1948 A comparative study of powders of European and Indian Valerian. *Indian Pharm.* 4: 98.
3809

SARAN, A. B.
1933 Notes on the teratology of certain plants. *J. Indian bot. Soc.* 13: 165.
3810

1933 Some observations on the flowers of *Erythrina indica* Lam. *J. Indian bot. Soc.* 12: 92.
3811

1935 The effect of wounding on respiration in the starving leaves of *Aralia guilfoylei. J. Indian bot. Soc.* 14(4): 299-304.
3812

1938 A short note on the rate of respiration and respiratory quotient of starved leaves of *Aralia* sp. before and after a course in Nitrogen. *J. Indian bot. Soc.* 17: 287-293.
3813

1949 Some observations on the obscure disease of paddy, *Oryza sativa. Curr. Sci.* 18: 378-379.
3814

SARASWATI MAHAL LIBRARY, TANJORE
Three hundred paintings of S. Indian plants in colour, executed under the orders of the late Sarafogi Maharaja of Tanjore.
Manuscript. The paintings are of Royal folio sizes, well executed and in excellent condition. Names written in English with Tamil equivalents. Latin names are mostly incorrect and incomplete.
3815

SARASWATHI-DEVI, L.

1958 Bio-assay — the *Aspergillus niger* technique for heavy metals. *Mem. Indian bot. Soc.* 1(2): 82-86.
3816

SARASWATHY ROYAN

1958 Chromocentres and nucleolar equivalents in the yeast nucleus. *Curr. Sci.* 27(10): 400-401.
3817

SARBADHIKARI, P. C.

1924 Cytology of *Osmunda* and *Doodia;* on the somatic and meitotic mitosis of *Doodia. Ann. Bot. Lond.* 38(149): 26.
3818

1939 Cytology of apogamy and apospory in *Osmunda javonica* Bl. *Ann. Bot. Lond.* (n.s.). 3: 137-145.
3819

1949 Cytology of apospory in *Doodia aspera.* (Abstr.). *Proc. 36th Indian Sci. Cong.* iii: 138.
3820

1955 Chromosome alteration as a means of evolution. *Bull. nat. Inst. Sci. India.* 7: 213-215.
3821

SARGENT, C. S.

1911-17 Plantae Wilsonianae; an enumeration of woody plants collected in W. China for the Arnold Arboretum of Harvard University, during the years 1907, 1908 and 1910, by E. H. Wilson. Cambridge, Univ. Press. 3v. (Publication of the Arnold Arboretum, no. 4).
3822

SARKAR, B. N.

1935 Note on the movements of *Basella cordifolia* Lamk. *J. Indian bot. Soc.* 14: 335.
3823

SAROJINI, T. S.

1951 Soil conditions and root diseases; *Fusarium udum,* disease of Red gram, *Cajanus cajan* Linn. *Proc. Indian Acad. Sci.* B. 33: 49-68.
3824

1954 Soil conditions and root diseases; *Neocosmospora vasinfecta* Smith, disease of *Cajanus cajan. J. Madras Univ. B.* 24(1): 137-142.
3825

SASTRY, B. N.

1936 Physiology of the spike disease of sandal. *Proc. Indian Acad. Sci.* B. 3: 444-449.
3826

SASTRY, R. L. N.

1954 Development of embryo of *Cocculus villosus* Dc. *Curr. Sci.* 22(6): 187-188.
3827

1954 Embryological studies in *Menispermaceae; Tiliacora racemosa* Coleb. *Proc. nat. Inst. Sci. India.* 20(4): 494-502.
Secretory type of tapetum, triporate pollen grains, degeneration of one of the ovules, crassinucellate ovule, formation of a nucellar cap and *Polygonum* type of embryo sac are features common to *Cocculus, Tinospora* and *Tiliacora.*
3828

1955 The embryology of *Ceratophyllum demersum* L. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 226.
Embryo development conforms to the Asterad type.
3829

SASTRY, R. L. N.—*contd.*

1955 Studies in *Lauraceae*. (Abstr.) *Proc. 42nd Indian Sci. Cong.* iii: 225-226.
Describes the structure and development of the pollen, embryosac and endosperm in *Cinnamomum iners* and *Cinnamomum zeylanicum*.
3830

1955 Development of the embryo of *Polyalthia longifolia* H.f. & T. *Curr. Sci.* 24(2): 51.
3831

1955 Structure and development of Nutmeg seed. *Curr. Sci.* 24(5): 172-173.
Myristica fragrans is the subject of study.
3832

1956 The embryology of *Clematis gouriana* Roxb. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 224.
3833

1956 The gametophytes of *Mahonia leschenaultii* Takeda (*Berberis leschenaultii* Wall.). (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 224-225.
Though many embryological features are common to both *Mahonia leschenaultii* and *Berberis nepalensis*, still the differences between the two are significant enough not to justify the treatment that the former is a variety of the latter.
3834

1956 Embryosac haustoria in *Cassytha filiformis* Linn. *Curr. Sci.* 25(12): 401-402.
Female gametophyte development is described.
3835

1957 The vascularization of the ovules in *Saccopetalum tomentosum* H. f. & T. *Curr. Sci.* 26(6): 183.
3836

1958 Embryological studies in the *Menispermaceae*. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 291.
Onagrad type of embryo development.
3837

SATAKE, YOSHISUKE

1931 Systematic and anatomical studies on some Japanese plants; systematic importance of spodograms in the *Urticales*. *J. Fac. Sci. Tokyo. Univ.* (S. 3). 3(2): 485.
Describes the Indian plants *Trema orientalis, T. amboinensis, Artocarpus incisa, A. integrifolia, Cannabis sativa, Brousonetia papyrifera* and *Phragmites karka*.
3838

SATYANARAYAN, Y.

1958 *Heteropogon contortus* (L.) Beauv., an indicator of soil acidity. *Sci. & Cult.* 23(8): 428-429.
In the course of the ecological study of grasslands in W. India, it has been found that soil under the spear grass shows an acid reaction.
3839

SATYANARAYANA RAO, N.

1947 A note on the chromosome number in *Colocasia antiquorum* Schott. (Letter). *Curr. Sci.* 16(7): 229.
Diploid number found by the writer is 36 which differs from the findings of previous worker. The variety examined is an autopolyploid.
3840

SAUNDERS, EDITH R.

1936 Some morphological problems presented by the flower in *Nymphaeaceae*. *J. Bot. Lond.* 74: 217-221. Morphology of *Cabomba, Brassenia, Nelumbium* and *Nymphaea* is described.
3841

SAUNDERS, R.

1800 Some account of the vegetable and mineral productions of Bhootan and Tibet. *Phil. Trans.* 79.
3842

SAVAGE, SPENCE

1945 The Linnean Herbarium, a catalogue of the Linnean Herbarium. London, the Linnean Society. xv, 225 p.
3843

SAVELLI, R. *and* COSTA

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1958 Studies on the vessel variations in dicotyledonous trees. *J. Indian bot. Soc.* 37(1): 104-113.
Taken out from the thesis *Studies on the anatomy of south Indian timbers,* approved for the Ph.D. Degree of the University of Edinburgh in 1953.
4004

SEDGWICK, L. J.

1910 A first list of mosses from western India. *J. Bombay nat. Hist. Soc.* 19: 938.
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1911 A second list of mosses from western India. *J. Bombay nat. Hist. Soc.* 20: 1043.
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1913 A third list of mosses from western India. *J. Bombay nat. Hist. Soc.* 22: 370.
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1914 A list of grasses from Ahmedabad and Surat. *J. Bombay nat. Hist. Soc.* 23: 110-117.
4008

1918 Herbaceous monsoon flora at Castle Rock and a new species of *Balsam. J. Bombay nat. Hist. Soc.* 25: 482.
4009

1918 The *Cyperaceae* of the Bombay Presidency. *J. Bombay nat. Hist. Soc.* 25: 682-700.
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1919 *Alysicarpus rugosus* and its allied species. *J. Indian Bot.* 1: 14.
4011

1919 On the species of *Zizyphus* in the Bombay Presidency. *Indian For.* 45: 67-74.
4012

1919 Analysis of some morphological characters of Bombay woody species from an ecological standpoint. *Indian For.* 45: 193.
4013

1919 *Trichodesma indicum* R. Br. and *T. amplexicaule. J. Indian Bot.* 1: 25; *Rec. bot. Surv. India.* 6: 347.
4014

1921 New Bombay species. *J. Indian Bot.* 2: 123.
Describes *Leucas angustissima, Christisonia flammea, Phyllanthus talboti, Boucerosia truncatocoronata* and *Canscora stricta.*
4015

SEEMAN, B.

1856 Popular history of palms and their allies. London, xvi, 359 p.
4016

1859 Synopsis of the genera *Camellia* and *Thea. Trans. Linn. Soc. Lond.* 22: 337-352.
4017

1862 Revision of the natural order *Bignoniaceae. Ann. Mag. nat. Hist.* (S. 3). 10: 29-33.
4018

1864 On some genera with one celled ovary referred to *Hederaceae. J. Bot. Lond.* 2: 204-207.
4019

SEEMAN, B.—*contd.*

1864-68 Revision of the natural order *Hederaceae*. *J. Bot. Lond.* 2: 289-309; 3: 173-181; 5: 236-239; 6: 52-58, 129-142, 161-165.

4020

1867 Revision of the natural order *Bignoniaceae*. *J. Bot. Lond.* 5: 371-375.

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SEETHALUKSHMI, V. *and* RAMAKRISHNAN, T. S.

1953 *Phytophthora cyperi-bulbosi* sp. nov. on *Cyperus bulbosus* Vahl. *Curr. Sci.* 22(5): 149-150.
It was collected from Coimbatore, Madras State.

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SEN, B. *and* CHAKRAVARTI, S. C.

1944 Vernalisation of mustard. *Curr. Sci.* 13(9): 234-235.

4023

SEN, J.

1948 Microfossils of Assam coalfields: the coal seam at Laitryngew and the age of Cherra sandstone. *Bull. bot. Soc. Bengal.* 2(2): 94-101.

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1948 On the second symposium on the age of the Saline series in the Salt range of the Punjab. *Sci. & Cult.* 13: 375-376.

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1953 Principles and problems of microfloral correlation of Indian coal seams with special reference to Karharbari Coal field. *Bull. nat. Inst. Sci. India.* 20: 129-139.

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1954 The nature of fossil leaf cuticles in coal with special reference to recent materials. *Bull. bot. Soc. Bengal.* 8: 149-152.
Deals with the structure and properties of plant tissues in coal.

4027

1954 On the occurrence of fructifications, borne on *Glossopteris* leaves. *Sci. & Cult.* 20: 202-203.

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1955 On some fructifications borne on *Glossopteris* leaves. *Bot. Notiser.* [ ]: 244-252.
These have been described from the upper Permean of India.

4029

1955 On some male fructifications referable to *Glossopteris* and the systematic position of the genus. *Proc. nat. Inst. Sci. India.* 21(1): 48-52.
The pollen sacs of *Pityosporites* type of pollen have been described from Indian lower Gondwana coal. *Pityosporites* was long mistook for the pollen of *Glossopteris*. The sac-like structure containing this type of pollen may belong to *Glossopteris*.

4030

1955 Orientation of quartz grains in some Indian silicified woods. *Palaeobotanist.* 4: 77-82.

4031

SEN, J. *and* BASAK, R. K.

1955 The nature of ancient wood; the structure and properties of well preserved trachieds and fibres. *Bull. Torrey bot. Cl.* 82(3): 183-195.

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SEN, NIRAD KUMAR

1946 Nitrogen metabolism in rice leaves. *J. Indian bot. Soc.* 25(2): 71-75.

4033

SEN, NIRAD KUMAR *and* SEN, SUBIR
1954 Chromosome number and meiotic abnormalities in *Bougainvillea*. *Bull. bot. Soc. Bengal.* 8(1 & 2): 140-142.
4034

SEN, NIRAD KUMAR *and* TAPADAR, N. N.
1956 Polyploidy in *Allamanda*. *Curr. Sci.* 25(4): 125-126.
Chromosomes of *A. violacea* was studied; showed double chromosome number in its complements. It is 2n=36. It is a polyploid type. It differs from *A. cathartica* types both morphologically and cytologically. Hence it should be considered a distinct species.
4035

SEN, P. K.
1943 The bearing problem of mango and how to control it. *Indian J. Hort.* 1(1).
4036

SEN, P. K. *and* BLACKMAN, V.
1935 On the conditions leading to the infection of leaves submerged in water. *Ann. Bot. Lond.* 47: 663.
4037

SEN, RAMCAMAL
1829 Notices of the Bhela, Vilwa or Bel. *Trans. med. phys. Soc. Calcutta.* 4: 110.
4038

SEN S.
1958 Stomatal types in *Centrospermae*. (Letter). *Curr. Sci.* 27: 65-67.
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SEN, S. C.
1941 The Cinchona cultivation in India. *Curr. Sci.* 10(4): 223-227.
About Cinchona cultivation in Bengal.
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SEN, S. K.
1941 *Pityrogramma calomelanos* Link. in Bengal. (Letter). *Curr. Sci.* 10(11): 493.
This fern was collected in Chittagong growing wild in the town. It has also been found growing on walls in green houses in Dacca. Originally, a native of America, it is supposed to be an escape from the cultivated plants. It is a first record for the plains of Bengal, though it has been reported from all over India.
4041

SEN, SAMIR
1957 A visit to Changgu. *J. Bengal nat. Hist. Soc.* 29(1 & 2): 1-5.
A brief account of the ascent of Changgu, on the Sikkim-Tibet Road, from Gangtok and of the wild flowers met with, namely a dwarf *Rhododendron*, some *Primulas* and a blue poppy.
4042

SEN, SATYARANJAN
1933 The systematic value of leaf ash. *J. Dept. Sci. Calcutta Univ.* 10: 1-8.
4043

SEN, SUBIR
1955 Chromosome numbers in the family *Combretaceae*. *Curr. Sci.* 24(12): 422-423.
Found n=13 in a number of species of *Terminalia arjuna*, *T. bellerica*, *T. chebula* and *T. catappa*. *Combretum gloriossum* had n=22.
4044

SEN, V.
Vanaushadhi darpana. Calcutta.
A work on Hindu materia medica in the Bengali language and script. Plant names in Latin are also given.
4045

SENARATNA, S. D. J. E.

1930 Some abnormalities of the Coconut palm. *Ann. R. bot. Gdn. Peradeniya.* 11: 301-303.

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1930 An abnormal rose. *Ann. R. bot. Gdn. Peradeniya.* 11: 305.

4047

SENGUPTA, G. G.

1957 Some new records of pests of cultivated plants. *Sci. & Cult.* 23(2): 95.

4048

SENGUPTA, J. C.

1937 An insectivorous plant in Bengal: *Aldrovanda vesiculosa* L. *Sci. & Cult.* 3(2): 97-99.
This plant has been recorded from Mymensingh after 100 years of its fruit record in lower Bengal.

4049

1942 Investigations of the annual variations of water contents, osmotic value and chloride fractions of plants in Port Canning near Calcutta. *Ann. R. bot. Gdn. Calcutta. 150th Ann. vol.* p. 265.

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1952 Study and research in plant physiology with reference to tropical plants. *Bull. bot. Soc. Bengal.* 6(1): 33-39.

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1955 Glimpses into our botanical studies. *Bull. bot. Soc. Bengal.* 9(2): 171-176.
Presidential address at the 19th annual general meeting of the Botanical Society of Bengal held on 30th July, 1955.
This is a resume of the progress of botanical studies in India from the middle of the 19th century to the present day. Discusses the work during pre-independent days and the post-independent period, stresses the needs of the day, sounds a note of hope and promise for the future.

4052

SENGUPTA, J. C. *and* CHATTOPADHYAYA, S. K.

1954 Effect of treatment with hormones on the setting of fruits and induction of seedlessness. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 159.

4053

1954 Effect of 2, 3, 5-tri-iodobenzoic acid on the growth and development of tomato. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 159.

4054

1954 Hormones and rooting in intact plants and cuttings. *Curr. Sci.* 22(9): 294-295.
Investigation reported here relates to the rooting response of intact shoots of some common herbaceous and shrubby plants to different hormones and to the root producing effect of Butyric acid (IBA) and L-nappthalene acetic acid (NAA) on the cuttings of some common trees and shrubs. Plants treated were *Carica papaya, Euphorbia pulcherrima, Eugenia jambolana* and *Mangifera indica.*

4055

SENGUPTA, J. C. *and* SEN, GITA

1950 Effect of shortening the daily light period in the morning and in the evening in short

SENGUPTA, J. C. *and*
SEN, GITA—*contd.*
day treatment of jute. (Letter). *Curr. Sci.* 19(6): 184-185.
Corchorus capsularis L. and *C. olitorius* L. were treated in this investigation. Darkening the plants in the morning had a deleterious effect on the growth of the plants, both in flowering and fruit production.
4056

SENGUPTA, J. C. *and*
SEN, NIRAD KUMAR
1944 Studies on the physiology of mustard. *Curr. Sci.* 13(6): 160-161.
Results of experiments on the time of flowering and fruiting recorded.
4057

SENGUPTA, J. C. *and*
TALUKDAR, SUMITRA
1954 Investigations on the physiology of growth and development of *Crotalaria juncea* L., Sunn Hemp. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 159-160.
4058

1955 Investigation on the physiology of growth and development of *Crotalaria juncea* L. *Indian J. agric. Sci.* 25(3): 51-66.
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SENGUPTA, J. N.
1937 The forests of upper Assam. *Indian For.* 63: 734-745.
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1939 Dipterocarpus (Gurjan) forests in India and their regeneration. *Indian For. Rec.* (n.s.). 3.
4061

SENGUPTA, N. N.
1911 Ayurvedic system of medicine; or, An exposition, in English, of Hindu medicine as occurring in Charaka, Susruta, Bagbhata and other authoritative works, ancient and modern, in Sanskrit. Calcutta, Keval Ram Chatterji. 3v.
Subsequent editions published in 1909-14 and 1919.
4062

SENN, H. A.
1943 The relation of anatomy and cytology to the classification of the *Leguminosae*. *Chron. Bot.* 7: 306-308.
4063

SENSARMA, PRIYADARSAN
1955 Tendrils of the *Cucurbitaceae*, their morphological nature on anatomical evidence. *Proc. nat. Inst. Sci. India.* 21(4): 162-169.
4064

1957 On the vascularization of the leaf and its associated structures in *Muntingia calabura*. *Bot. Gaz.* 119(2): 116-119.
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SERINGE, N. C.
1822-23 Esquisse d'une monographie du genre *Aconitum*. Geneva. 115-175 p.
4066

1825 Memoire sur la famille des *Cucurbitacees*. Geneve, Chez l'Auteur. 40 p., 5 l.
4067

1828 *Cucurbitaceae*. *DC. Prodr. Syst. Nat.* 3: 297-320.
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SERVETTAZ, M. C.
1908 Note preliminaire sur la systematique des *Elaeagnaceae*. *Bull. Herb. Boiss. Geneve.* 8: 38, 394.
4069

1909 Monographie des *Elaeagnacees*. *Beih. bot. Zbl.* 25: 1, 129.
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SESHACHAR, B. R. *and*
SRINATH, K. V.

1946 The nucleolus. *Curr. Sci.* 15(1): 9-11.
This is a review of the nature, structure and contents of the nucleolus, jointly made by a zoologist and a botanist. They plead for the provision of modern facilities for biological investigations, such as the ultra-violet absorption spectroscope or the electron microscope, in premier scientific institutions.
4071

SESHAGIRI, P. V. V. *and*
BHIRAVAMURTHY, P. V.

1957 Physiological studies in the banana "Thellachakrakeli". *Curr. Sci.* 26(7): 216-217.
4072

SESHAGIRIAH, K. N.

1934 Seeds and seedlings of *Tinospora cordifolia* Miers. *Curr. Sci.* 3(6): 264.
Says that the seeds have embryos probably by the influence of foreign pollen and they are viable. Seeds when sown germinated successfully.
4073

1941 Morphological studies in the *Orchidaceae*. *J. Indian bot. Soc.* 20(5 & 6): 357-365.
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1941 Physiology of pollination in *Orchidaceae*. *Curr. Sci.* 10(11): 30-31.
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SESHAGIRIAH, N. N.

1932 Development of the female gametophyte and embryo in *Spiranthes australis* Linn. *Curr. Sci.* 1: 102.
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SESHAGIRI RAO, ROLLA

1948 The genus *Ceropegia*: further comments. *J. Bombay nat. Hist. Soc.* 48: 612-613.
With still further notes by H. Santapau immediately follow Seshagiri Rao's note.
4077

1948 *Microcos blattaefolia* (Corner) Seshagiri Rao nov. comb. *J. Bombay nat. Hist. Soc.* 48: 300-302.
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1953 Occurrence of *Paragrewia* Gagnep. in India and Burma. *J. Bombay nat. Hist. Soc.* 51(3): 671.
4079

1954 New species of Indian plants: *Paragrewia poilanei* Gagnepain ex-Seshagiri Rao and *Chonemorpha pedicellata* Seshagiri Rao. *J. Bombay nat. Hist. Soc.* 52(1): 190-191.
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1955 *Chonemorpha mollissima* Boerl. *J. Indian bot. Soc.* 34: 47-49.
Chonemorpha millissima Boerl. which is closely allied to *C. penangensis* Ridley is regarded to be a distinct species. A detailed description of it is given.
4081

1955 A revision of the Indo-Malayan species of *Viscum* L. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 228-229.
15 species are assigned to the Indo-Malayan region.
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1956 *Parthenium hysterophorus* Linn., a new record for India. *J. Bombay nat. Hist. Soc.* 54: 218-220.
4083

1957 A revision of the Indo-Malayan species of *Viscum* L. *J. Indian bot. Soc.* 36(2): 113-168.
4084

1958 *Paragrewia* Gagnepain ex Seshagiri Rao; synonymous with *Leptonychia* Turcz. *J. Bombay nat. Hist. Soc.* 55(2): 376-377.
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1958 A preliminary note on the revision of Indian *Commelinaceae*. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 331.
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SESHAGIRI RAO, ROLLA *and* PANIGRAHI, G.

1958 Studies on the Indian flora (Eastern India); observations on the vegetation of the Kamang Frontier Division, N.E.F.A. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 331-332.
4087

SETCHELL, WILLIAM ALBERT

1935 *Acroblastum* vs. *Polyplethia*: a complex of the *Balanophoraceae*. *Univ. Calif. Publ. Bot.* 19(3): 141-158.
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SETHI, MOHAN LAL

1928 Contributions to the life history of *Equisetum debile* Roxb. *Ann. Bot. Lond.* 42: 729.
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1928 Contribution to our knowledge of the life history of *Pinus longifolia*. *J. Indian bot. Soc.* 7: 105.
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1930 Microsporogenesis in *Cassia didymobotrya*. *J. Indian bot. Soc.* 9: 126-136.
4091

1931 On *Sauchia spongiosa* Kash. (Bryophyte). *J. Indian bot. Soc.* 10: 175.
4092

SEVASTOPULO, D. G.

1948 A supplementary list of the food plants of the Indian *Bombycidae, Agaristidae* and *Noctuidae*. *J. Bombay nat. Hist. Soc.* 48: 265-276.
4093

SEWARD, A. C.

1907 Permo-carboniferous plants from Kashmir. *Rec. geol. Surv. India.* 36: 57-61.
4094

1912 Dicotyledonous leaves from the coal measures of Assam. *Rec. geol. Surv. India.* 62: 93-102.
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1912 Lower Gondwana plants from the Golabghar Pass, Kashmir. *Palaeont. indica.* (n.s.). 4(3): 1-10.
4096

1912 Mezozoic plants from Afghanistan and Afghan Turkestan. *Palaeont. indica.* (n.s.). 4(4): 1-57.
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SEWARD, A. C. *and* HOLTTUM

1922 Jurassic plants from Ceylon. *Quart. J. geol. Soc.* 78: 271-276.
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SEWARD, A. C. *and* SAHNI, BIRBAL

1920 Indian Gondwana plants: a revision. *Palaeont. indica.* (n.s.). 7: 1-41.
4099

SEWARD, A. C. *and* WOODWARD, A. S.

1905 Permocarboniferous plants and vertibrates from Kashmir. *Palaeont. indica.* (n.s.). 2: 109.
4100

SHAH, C. B.

1955-56 The phytosociological and ecological studies of weeds of rice fields of Bombay. Thesis accepted for the M.Sc. Degree in Botany of the University of Bombay.

4101

SHAH, C. S. *and* VYAS, L. S.

1957 Pharmacognosy of *Polygala chinensis* L. and comparison with *chinensis* I.P. *Indian J. Pharm.* 19(10): 224-227.
The morphological and microscopical characters of *Polygala chinensis* root are described and distinguishing characters compared with those of *chinensis* I.P. and *P. senega*. Microscopical characters as well as vein-islet number, stomatal index and palisade ratio of the leaf have been mentioned. It has been suggested that the monograph of *chinensis* I.P. be revised.

4102

SHAH, C. S., VYAS, L. S. *and* AGHARA, L.

1957 Pharmacognostic study of *Polygala chinensis* L., its evaluation, botanical identity and comparison with *Polygala senega*. *Indian J. Pharm.* 19(1): 10-12.
An evaluation of the drug *P. chinensis* has been made by comparing the froth number and haemobytic index with that of *P. senega*. The crude fibre and fluorescence analysis of both *P. senega* and *P. chinensis* are mentioned. The botanical identity of *P. chinensis* has been discussed and shown to require further investigation.

4103

SHAH, G. K.

1957 The morphological and embryological studies in the family *Cyperaceae* with reference to *Cyperus niveus* Retz. and *Kyllinga triceps* Rottb. *Vidya*. 1(2): 98-99.

4104

SHAH, G. L.

1953 Chromosome numbers in four *Umbellifers*. *Curr. Sci.* 22(2): 50-51.

4105

1953 On the megaspore arrangement in *Peucedanum grande* Clarke. *Curr. Sci.* 22(10): 311-312.
Sometimes in rare cases, four cells lie isodiametrically, which cells may be either a double dyed or an isobilateral abnormalities.

4106

1953 Studies in *Umbelliferae;* the female gametophyte of *Pimpinella adscendens* Dalz. *J. Univ. Bombay*. (n.s.). 22(3): 41-46.

4107

SHAH, G. L. *and* SANTAPAU, H.

1957 *Neuracanthus sphaerostachys* Dalz.—further comments. *J. Bombay nat. Hist. Soc.* 54(4): 969-970.

4108

SHAH, J. J.

1954 Nucleated vessel elements in tendrils of *Vitis repens* W. & A. *Curr. Sci.* 22(2): 65.

4109

1954 Septate epidermal and collenchyma cells in the tendrils of *Vitis repens* W. & A. *Curr. Sci.* 22(8): 270.

4110

1954 On the "sensory epidermis" of stipules of *Vitis repens* W. & A. *Curr. Sci.* 22(9): 302-303.
5th to the 7th parts of stipules from the shoot apex

probably act as the organs of perception of mechanical stimuli directly the plant in climbing round the support.

4111

1955 On the nature of primary vascular tissues in the tendril of *Vitis pallida* W. &. A. *Curr. Sci.* 24(5): 165.

4112

SHAH, R.

1950 Certain observations on *Broussonetia papyrifera* Vent. and *Boswellia serrata* Roxb. in relation to traumatism. *J. Bombay nat. Hist. Soc.* 49(2): 288-290.

4113

SHAMANNA, S.

1954 A contribution to the embryology of *Olax wightiana* Wall. *Proc. Indian Acad. Sci.* B. 39(6): 249-256.

4114

1955 Contribution to the embryology of *Opilia amentacea* Roxb. *Curr. Sci.* 24(5): 165-167.
Opilia amentacea exhibits interesting features in its mode of life, floral structure and reproduction, showing similarities with the allied families of the order *Santalales*.

4115

SHAMA RAO, H. K. *and* SOLOMON, S.

1957 Flower structure and anthesis in the genus *Alysicarpus*. *Proc. Indian Acad. Sci.* B. 45(4): 216-224.

4116

SHANBAG, G. Y.

1956 The climates of India and its vicinity according to a new method of classification. *Indian geogr. J.* 31(1 & 2): 1-25.

4117

1958 A method for the classification of the climates of the arid and semi-arid regions. *Proc. nat. Inst. Sci. India.* B. 24(3): 150-158.
New system is based on effective growth index. It was found that places having the effective growth indices between 0(zero) and 20 have arid climate while those between 20 and 40 belong to the semi-arid one.

4118

SHANKARAYAN, K. A.

1956-57 Phytosociological and ecological studies of grasslands of Bombay.
Thesis accepted for the Ph.D. Degree of the University of Bombay.

4119

SARUP, SHANTI

1935 Sex control in Papaya. *J. Indian bot. Soc.* 13: 269.

4120

1952 A list of common plants of Jodhpur and its neighbourhood. *Univ. Rajputana Stud.* 1: 29-35.

4121

1952 Plant ecology of Jodhpur and its neighbourhood. *Bull. nat. Inst. Sci. India.* 1: 223-232.

4122

1954 Water economy and plant life of semi-arid region of Jodhpur. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 162.

4123

SARUP, SHANTI *and* DUTTA, KRISHNA

1954 Soil in relation to the vegetation of Jodhpur. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 162.

4124

SARUP, SHANTI *and* VYAS, L. N.

1954 Plant ecological studies of Jodhpur Tehsil. (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 163.
Low rainfall, extremes of temperature, low humidity, desiccating effect of high winds, poor soil, low water content and biotic factors are the limiting factors of the vegetation of Jodhpur and environs. Xerophytes dominate the vegetation.
4125

SHARMA, A. K.

1947 A cytological investigation of incompatibility between *Cosmos bipinnatus* Cav. and *C. sulphureus* Cav. *Bull. bot. Soc. Bengal.* 1: 19-26.
Five is the basic chromosome number in both the species.
4126

1949 The Indian *Sphagnums*. *Bull. bot. Soc. Bengal.* 3: 99.
17 species of *Sphagnums* from India, out of which 7 species, i.e., 40% being indigenous, are listed in this paper along with a key for purposes of identification. Most of the Indian *Sphagnums* are found in the Sikkim Himalayas, Bhutan, the Khasi and the Manipur Hills. Two are found in the west Himalayas, two occur in the Nilgiris and Ceylon. A note on the economic importance of *Sphagnums* is also given.
4127

1950 Chromosome chemistry and the recent techniques for its study. *Sci. & Cult.* 16: 134-142.
4128

1951 Trichloracetic acid and Feulgen staining. *Nature.* 167: 441-442.
Trichloracetic has been found to extract Nucleic acid from all the chromosome segments, except the heterochromatic ones. Staining with Feulgen solution, following Trichloracetic acid treatment, shows differentiation of heterochromatic and euchromatic regions.
4129

1952 Desoxyribo-nucleic acid—the problem of its function, location and reactions. *Portug. acta. biol.* 3: 280-317.
A review of the cytological functions of DNA has been made. These functions are still not definitely known.
4130

1955 Cytology of some of the members of *Commelinaceae* and its bearing on the interpretation of phylogeny. *Genetica.* 27: 323-363.
Lines of evolutionary trends in the *Commelinaceae* have been pointed out as a result of detailed cytological analysis of 8 species of the family.
4131

1956 Improvements in chromosome fixation. *Sci. & Cult.* 21: 649-650.
4132

1956 Chromosome studies in some Indian barley. *Proc. Nat. Inst. Sci. India.* B. 22(5): 246-249.
A karyotype analysis of six different strains of barley raised in the Indian Agricultural Research Institute, New Delhi, has been carried out. All the strains have the same number of chromosomes, i.e., 14 and are more or less similar in gross morphology but differ with regard to nucleolar constrictions.
4133

SHARMA, A. K.—*contd.*

1956 Fixation of plant chromosomes: its principles, limitations and recent developments. *Bot. Rev.* 22: 665-695.
Different methods of fixation and staining schedules completely reviewed. Scope of the applicability of different ingredient fixatives discussed. Earlier methods of pretreatment and recent advances and the mode of action compared.
4134

1956 A new concept of a means of speciation in plants. *Caryologia.* 9: 93-130.
Large scale karyotypic alterations noted in the somatic tissue of over 100 species of plants, suggest a new means of speciation for vegetatively reproducing plants. Claims that these cells may enter into the growing tip of the daughter vegetative shoots, producing phenotypically different individuals.
4135

1958 Chromosome studies as a means of detecting the method of speciation in some members of *Liliaceae.* (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 300.
4136

1958 Further investigation on the cytology of different species of *Amaryllidaceae.* (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 299.
4137

SHARMA, A. K. *and* BAL, A. K.

1953 Coumarin in chromosome analysis. *Stain Tech.* 28: 255-257.
For the classification of karyotypes, a method with Coumarin as the pretreatment agent has been worked. Its suitability for plants with long chromosomes has been pointed out.
4138

1956 A cytological investigation of some members of the family *Cyperaceae. Phyton.* 6: 7-22; Abstr. in *Proc. 41st Indian Sci. Cong.* iii: 149 (1954).
4139

1956 A cytological study of a few genera of *Amaryllidaceae* with a view to find out the basis of their phylogeny. *Cytologia.* 21: 329-352.
9 species of the *Amaryllidaceae* were cytologically investigated, adopting Coumarin and Aesculin techniques. Role of structural and numerical alterations of chromosomes within the same somatic tissue has been discussed and the lines of evolution pointed out.
4140

1956 An investigation on the effect of certain chemicals on the nucleus and their possibilities in chromosome analysis in plants. *Proc. nat. Inst. Sci. India.* B. 22(2): 57-69.
Possibilities of the use of Coumarin, Aesculin and Salicin in chromosome analysis studied and recorded. Coumarin and Salicin showed better results than Aesculin. Power of fragmentation of the chromosomes is possessed by some of these chemicals.
4141

1957 Chromosome studies in *Citrus. Agron. lusit.* 19: 101-126; Abstr. in *Proc. 44th Indian Sci. Cong.* iii: 225-226.

SHARMA, A. K. *and*
BAL, A. K.—*contd.*

Cytological studies of 3 horticultural varieties of *Citrus acida, C. aurantifolia,* four varieties of *C. decumana,* two of *C. limetta* and one of *C. microcarpa* have shown that 2n number is 18 in all of them. In *C. acida* var. *columbia* it is 2n=19 and in *C. decumana* var. *monester* Kalsia it is 2n=21. The group is homogeneous, 10 chromosomes types are present.

4142

1958 A cytological study on the different varieties of *Codiaeum variegatum* Bl.; a means of finding out the mechanism of their evolution. *Nucleus.* 1: 223-226.

4143

SHARMA, A. K. *and*
BHATTACHARYA, BIVA

1956 Vitamins, their property of inducing chromosome division in adult cells of plants. *Caryologia.* 9: 38-53; Abstr. in *Proc. 42nd Indian Sci. Cong.* iii: 251 (1955).

Nicotinic acid, Succinic acid, Thiamine and Calcium pentothenate produce division in adult cells. Polyploid constitution of the adult nuclei has been revealed.

4144

1956 A study of the cytology of four members of the *Hydrocharitaceae* as an aid to trace the lines of evolution. *Phyton.* 6: 123-124; Abstr. in *Proc. 43rd Indian Sci. Cong.* iii: 114.

4145

1956 Effect of Inositol and Moliybdic acid on somatic nuclei of plants. *Phyton.* 7: 15-22; Abstr. in *Proc. 43rd Indian Sci. Cong.* iii: 144.

These chemicals have been found to induce division in adult nuclei. They also affect the nuclei, acid metabols of the cells.

4146

1957 Effects of chemical treatment on floral shoots. *Indian Agric.* 1: 28-33; Abstr. in *Proc. 43rd Indian Sci. Cong.* iii: 145 (1956).

Effects of Coumarin, Salicin and Aesculin on reproductive cells of *Foeniculum vulgare* are reported. Coumarin produces the maximum irregularity.

4147

1957 Cytology of six species of *Asparagus* and *Lilium. Phyton.* 8: 1-12; Abstr. in *Proc 44th Indian Sci. Cong.*

The cytology of 4 species of *Asparagus* and 2 species of *Lilium* was worked out. Variations in the number of chromosomes within the same root tip have been noted and their role in the evolution of species has been discussed.

4148

SHARMA, A. K. *and*
BHATTACHARYA, DIPTI

1951 Phosphatase in mitotic and meiotic cycle of plant chromosomes. *Sci. & Cult.* 17: 268-269.

Following Gomori technique, it has been found that alkaline phosphatase activity in chromosomes of plants corresponds with Nucleic acid cycle to a large extent.

4149

1952 Effect of Trichloracetic acid on nuclear proteins. *Nature.* 169: 417.

SHARMA, A. K. *and*
BHATTACHARYA, DIPTI—*contd.*

Hot Trichloracetic acid disintegrates nucleolar proteins; but it has no effect on fibrous protein.

4150

1952 Permanent mounts of chromosomes after 8-Oxyquinoline and squashing. *Stain Tech.* 27: 201-203.
A new method for making permanent mounts of somatic chromosomes has been evolved.

4151

1953 Somatic reduction in untreated leguminous plants. *Genetica.* 26: 410-414.
Reduction division obtained in normal healthy root-tip cells of *Lens, Vicia, Lathyrus,* etc.

4152

1957 Cytology of *Sorghum*. *Cytologia.* 22: 287-311; Abstr. in *Proc. 44th Indian Sci. Cong.* iii: 257.
The cytology of 23 species of *Sorghum* was carried out. Somatic number commonly found is 29, except in *S. versicolor* and *S. halepense* having 10 and 40 respectively. The basic number is 4. Other important points have been discussed.

4153

SHARMA, A. K. *and*
BHATTACHARYA, N. K.

1954 Treatment of root tips in phenols for the study of the karyotype. *Curr. Sci.* 23: 232-233.
Observes that chloroglucinal treated fresh root-tips yielded the lowest results.

4154

1955 Cytogenetics of some members of *Menispermaceae*. *Bull. bot. Soc. Bengal.* 9: 159-169; Abstr. in *Proc. 43rd Indian Sci. Cong.* iii: 145 (1956).
Four is the basic number of chromosomes in all the four species worked out.

4155

1956 An investigation on the possibilities of the use of phenols in chromosome analysis. *Genetica.* 28: 121-142.

4156

1956 Chromosome breakage through Paradichlorobenzene treatment. *Cytologia.* 21: 353-360.

4157

1956 An investigation on the karyotype of the genus *Crinum* and its phylogeny. *Genetica.* 28: 263-296; Abstr. in *Proc. 41st Indian Sci. Cong.* iii: 147 (1954).

4158

1956 A study on spontaneous chromosome fragmentation in *Vicia sativa* L. *Cytologia.* 21: 361-375; Abstr. in *Proc. 41st Indian Sci. Cong.* iii: 25 (1954).

4159

1956 Cytogenetics of some members of *Portulaceae* and related families. *Caryologia.* 8: 257-274; Abstr. in *Proc. 43rd Indian Sci. Cong.* iii: 145-146.
8 species of *Portulaceae* and *Aizoaceae* were studied. It was found out that polyploidy played an important part in the matter of speciation in the family. Close affinity of the two families has been emphasised.

4160

SHARMA, A. K. *and*
BHATTACHARYA, N. K.—*contd.*

1957 Cytology of *Asphodelus tenuifolius* Cav. *Caryologia.* 10: 330-339; Abstr. in *Proc. 44th Indian Sci. Cong.* iii: 257.
2n chromosome number in *Asphodelus tenuifolius* is 30. Secondary association in meiosis suggests the basic number to be 7. The species seems to be an amphidiploid.
4161

1958 Inconstancy in chromosome complements in species of *Maranta* and *Calathea*. *Proc. nat. Inst. Sci. India.* 24(3): 101-117; Abstr. in *Proc. 45th Indian Sci. Cong.* iii: 299.
Nine species belonging to *Maranta* and *Calathea* of the family *Marantaceae* have been cytologically studied. Interrelationship between the two genera has been discussed.
4162

1958 Structure and behaviour of chromosomes of species of *Acacia*. *Phyton.* 10: 111-122.
4163

SHARMA, A. K. *and*
BHATTACHARYA, U. C.

1957 Cytological studies in *Begonia*. *Cellule.* 58: 307-329; Abstr. in *Proc. 44th Indian Sci. Cong.* iii: 259.
Four species of *Begonia* were studied. They showed similarity in chromosome morphology. Allopolyploidy has played an important role in evolution.
4164

SHARMA, A. K. *and*
CHATTERJI, A. K.

1957 A cytological investigation of some *Convolvulaceae* as an aid in understanding their lines of evolution. *Phyton.* 9: 143-157; Abstr. in *Proc. 45th Indian Sci. Cong.* iii: 301 (1958).
4165

1958 Chromosome studies as a means of detecting the methods of speciation in some members of *Liliaceae*. *Genet. iber.* 10: 149-178.
4166

SHARMA, A. K. *and* DAS, N. K.

1954 A study of karyotypes and their alterations in aroids. *Agron. lusit.* 16: 23-48.
Abnormalities of karyotypes observed within the same individuals recorded with discussions on such abnormalities.
4167

SHARMA, A. K. *and* DE, D. N.

1954 Gallic acid—its importance in cyto-chemical studies. *Caryologia.* 6: 180-189.
A certain concentration below the subnarcotic zone has been found to bring out chromosome details clearly.
4168

1956 Polyploidy in *Dioscorea*. *Genetica.* 28: 112-120; Abstr. in *Proc. 42nd Indian Sci. Cong.* iii: 248-249 (1955).
D. alata and *D. sativa* were cytologically studied. Polyploid series in *D. alata* was noted in the different individuals.
4169

1956 Heterocyclic bases—an aspect of their use in cytochemistry. *Phyton.* 6: 23-46; Abstr. in *Proc. 42nd Indian Sci. Cong.* iii: 248 (1955).
4170

1956 Cytology of some of the millets. *Caryologia.* 8: 294-308.

8 species, belonging to *Eleusine, Setaria* and *Pennisetum* were worked. 9 has been found to be the chromosome number of *Eleusine* and *Setaria,* whereas 7 was found for *Pennisetum.* Role of allopolyploidy in its evolution has been pointed out.

4171

SHARMA, A. K. *and* DUTTA, A.

1956 Induction of chromosome division by Ascorbic acid treatment. *Phyton.* 6: 71-78; Abstr. in *Proc. 42nd Indian Sci. Cong.* iii: 249-250 (1955).

4172

SHARMA, A. K. *and* DUTTA, P. C.

1956 Effect of chemicals on *Coriandrum sativum. Carylogia.* 10: 152-158; Abstr. in *Proc. 43rd Indian Sci. Cong.* iii: 146.
Through Colchicine treatment tetraploidy has been induced in *Coriandrum sativum.* It has revealed a number of changed features, mostly desirable.

4173

1958 Cytological investigations on the genus *Ipomoea* and its importance in the study of Phylogeny. *Nucleus.* 1(1): 89-122.
In view of scanty cytological literature in a different species of the genus, an intensive study was undertaken. In this paper 24 species and varieties of *Ipomoea* were worked out.

4174

SHARMA, A. K. *and* GHOSH, CHITRA

1950 Oxyquinoline—as an ingredient in a new fixative for chromosome analysis. *Sci. & Cult.* 16: 268-269.

4175

1951 Oxyquinoline—its possibilities in other cytological procedures. *Sci. & Cult.* 16: 528-529.

4176

1954 Cytogenetics of some of the Indian *Umbellifers. Genetica.* 27: 17-44.
10 species of *Umbellifers* have been studied. The role of structural changes of chromosomes in the evolution of species has been emphasised.

4177

1954 Further investigation on the cytology of the family *Amaryllidaceae* and its bearing on the interpretation of its phylogeny. *Genet. iber.* 6: 71-100.

4178

1956 The cytology of two varieties of *Polyanthes tuberosa* with special reference to their interrelations and sterility. *Genetica.* 28: 99-111.
2 horticultural varieties of *Polyanthes tuberosa* were studied. 50 chromosomes were found in the double flowered variety whereas 60 were found in the single flowered variety. Cause of sterility has been worked out.

4179

SHARMA, A. K. *and* JASH, MIRA

1958 Chromosome studies in several members of *Euphorbiaceae* with a view to find out interrelationships. (Abstr.). *Proc. 45th Indian Sci. Cong.* iii: 303-304.
19 species have been worked for their chromosome numbers.

4180

1958 Further investigation on the cytology of the *Amaryllidaceae. Phyton.* 11: 103-110.

4181

SHARMA, A. K. *and*
MAJUMDAR, ARATI

1955 Cytological peculiarity of *Pteris longifolia* and its importance in evolution. *Sci. & Cult.* 21: 338-339.
Variations in chromosome number noticed in this plant have been analysed as to their significance.
4182

1956 Karyotypic variations in pteridophyta and their significance. *Agron. lusit.* 18: 243-249.
Consider that the entrance of nuclei with irregular number of chromosomes, into the growing tips may be the cause of speciations in the pteridophyta.
4183

1957 Structure and behaviour of chromosomes in different varieties of *Psidium guajava* L. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 256.
Four Indian varieties of *Psidium guajava* L. have been studied. Variations in the somatic complement in the same plant have been noted.
4184

SHARMA, A. K. *and*
MUKHERJI, ARCHANA

1954 Induction of division in cells; a study of the casual factors involved. *Bull. bot. Soc. Bengal.* 8: 25-100.
Division in differentiated cells of *Allium cepa* induced by treating with different chemicals, non-division of cells appears to be due to the absence of sugar in the Nucleic acid.
4185

1954 Possibilities of the use of hormones in chromosome analysis. *Caryologia.* 6: 52-62.
Effect of 6 hormones on cell constituents, its particular optimum concentrations have been studied. They effect the plasm viscosity and bring out clearly the chromosome structure, especially in plants with long chromosomes.
4186

1955 Paradichlorobenzene and other chemicals in chromosome work. *Stain Tech.* 30: 1-7.
For the classification of chromosome morphology a new short schedule with Paradichlorobenzene as the fixing chemical has been worked out. The superiority and wide applicability have been noted.
4187

1956 Fixity in chromosome number of plants. *Nature.* 177: 335-336.
4188

1956 The chemical nature of the nucleolus. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 148.
A substance resistant to both acid and proteases is present in the hyaline perinucleolar zone.
4189

1957 Effect of Nucleic acids on root cells. (Abstr.). *Proc. 44th Indian Sci. Cong.* iii: 256.
Capacity of RNA and DNA to induce division in adult nuclei of root cells is worked out by different experiments. RNA had the better effect than the other.
4190

SHARMA, A. K. *and*
MUKHERJI, ARCHANA—*contd.*

1957 Evidences to cytological basis of differentiation in plants. *Experientia*. 13(4): 143-145.
Variations in numbers of chromosomes in the meristematic regions and differentiated leaves in *Tinospora cordifolia, Stephania hernandifolia* and *Cocculus villosus* were studied. Most of the cells have the normal 2n number of chromosomes, but at the stem tips, varying numbers occur.
4191

1957 Investigations leading to a theory of differentiation in plants. *Genet. iber.* 9: 143-162.
4192

1957 Karyotype analysis of the genus *Cestrum* as an aid to the identification of the species. *Genetica*. 29: 83-100.
4193

1957 Permanent smears of leaf-tip chromosomes. *Stain. Tech.* 32: 167-169.
4194

1957 A theory regarding the stability of chromosomes complement in a species. *Naturwissenchaften*. 44: 1-17.
4195

1957 Vegetatively reproducing plants, their means of speciation. *Sci. & Cult.* 22: 628-630.
Role of karyotypic alterations in the production of new vegetative individuals has been discussed.
4196

1958 Further investigations on different members of the family *Commelinaceae* with special reference to polyploidy and the origin of species. *J. genet.* 56: 1-22.
4197

1958 Analysis of chromosome morphology and possible means of speciation in *Jasminum*. *Cytologia*. 23: 172-185.
4198

1958 Cytogenetics and plant breeding. *Progress of Science in India; Section 6, Botany*. p. 93-112.
Contains a resume of the researches in cytology and genetics carried out in India during the period 1939-1950. Reviews the subject under a number of sub-headings and the contributions made thereunder. Researches on plant breeding are noticed under a number of major agricultural crops like cotton, wheat, potato, leguminous plants, paddy, barley, mustard, sesamum, millets and jute. A bibliography concludes the paper.
4199

1958 Recent advances in the study of chromosome structure. *Bot. Rev.* 24: 511-549.
4200

SHARMA, A. K., MUKHERJI, ARCHANA *and* GHOSH, CHITRA

1953 Alkaline phosphatase technique in plant chromosomes. *Portug. acta biol.* 3: 341-354.
4201

SHARMA, A. K. *and* MUKHERJI, R. N.

1955 Cytology of two members of *Alismaceae*. *Bull. bot. Soc. Bengal*. 9(1): 32-35.
The cytology of *Alisma plan-*

SHARMA, A. K. *and*
MUKHERJI, R. N.—*contd.*
tago and *Limnocharis flava* was studied.
4202

1955 Induction of chromosomal abnormalities through chemicals in pollen mother cells of *Allium cepa*. *Genet. iber.* 7: 57-64; Abstr. in *Proc. 43rd Indian Sci. Cong.* iii: 145 (1956).
Results of Phenol treatment by injection on meiosis of *Allium cepa* are reported. Chromosome stickiness, besides laggars and fragments, is the most important abnormality noticed.
4203

1956 Chromosome studies in some Indian barley. *Proc. Indian Acad. Sci.* B. 43: 279-287.
Six varieties have been worked out. The role of structural changes of chromosomes has been pointed out.
4204

1956 Effect of irradiation on adult nuclei in plants. *Genetica*. 28: 143-164; Abstr. in *Proc. 42nd Indian Sci. Cong.* iii: 250 (1955).
Irradiation has the effect of inhibiting division in cells.
4205

1956 Induction of division in the adult cells of hormones. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 146.
Non-meristematic adult nuclei in *Allium cepa* root-tips have been induced to divide by Phenyle Acetic acid, Naphthalene, Acetic acid, etc., the first being most effective.
4206

SHARMA, A. K. *and* ROY, MIRA
1955 Orcein staining and the study of the effect of chemicals on chromosomes. *Chromosoma*. 7: 275-280.
Root-tips of various dicots and monocots were treated with solutions of Alloxan coumania or Oxy-quinoline for 1-3 hours and stained in Aceto-orcein or Feulgen reagent. This procedure gave clear metaphase plates.
4207

1956 The acid phosphatase test in the analysis of chromosome structure. *Phyton*. 7: 23-63.
4208

1956 Irradiation, its effect on young metabolic nuclei and the biochemical changes involved. *Cellule*. 57(3): 337-354; Abstr. in *Proc. 43rd Indian Sci. Cong.* iii: 147.
Irradiation experiments were carried out with the bulbs of *Allium cepa*.
4209

1956 Chemical constitution and enzyme activity of chromosomes and related structures. *Celulle*. 58: 109-133; Abstr. in *Proc. 42nd Indian Sci. Cong.* iii: 250-251 (1955).
Detailed study shows that the main thread of the chromosome is composed of a non-basic pepsin digestable protein.
4210

1958 Cytological studies in jute and its allies. *Agron. lusit.* 20: 1-15.
4211

SHARMA, A. K. *and* SARKAR, S. K.
1955 A new technique for the study of chromosomes of palms. *Nature*. 176: 261.
4212

SHARMA, A. K. *and*
SARKAR, S. K.—*contd.*

1956 Cytological basis of differentiation in palms. *Sci. & Cult.* 22: 175-176.

4213

1956 Veratrine—its use in cytochemistry. *Caryologia.* 8(2): 240-249; Abstr. in *Proc. 42nd Indian Sci. Cong.* iii: 251-252 (1955).
The effect of Veratrine on somatic chromosomes has been recorded. The following aspects of its action have been revealed: polyploiding capacity, capacity for karyotype analysis and inducing chromated breaks at different specific concentrations followed by different periods of recovery.

4214

1956 Cytology of two species of *Onagraceae* with special reference to the structural hybridity of *Clarkia*. *Phyton.* 7: 69-76; Abstr. in *Proc. 44th Indian Sci. Cong.* iii: 259 (1957).
Cytology of *Clarkia elegans*, *Jussieua repens* was studied, 2n number being 18 and 16 respectively. *Clarkia elegans* shows definite structural hybridity, evidenced by the formation of rings, chains, etc. during meiosis.

4215

1957 Cytology of different species of palms and its bearings on the solutions of the problems of phylogeny and speciation. *Genetica.* 28: 361-488; Abstr. in *Proc. 44th Indian Sci. Cong.* iii: 258.
Cytology of 50 species of tropical palms has been worked out. Six lines of evolution in the tribes have been noticed. Chromosome numbers in *Areceae* are 2n = 32, in *Coryphеae* 2n = 36, in *Calameae* 2n = 28. Allopolyploidy plays an important role in fruit production.

4216

1957 A study of the comparative effect of chemicals on chromosomes of roots, pollen mother cells and pollen grains. *Proc. Indian Acad. Sci.* B. 45: 288-293; Abstr. in *Proc. 44th Indian Sci. Cong.* iii: 258.
Aesculin, Paradichlorobenzene and Rosorcinol were applied separately to the chromosomes of root-tips, pollen grain and pollen mother cells of *Nothoscordum fragrans*. There were different responses, which proves the differential metabolic set up of the chromosomes.

4217

SHARMA, A. K. *and* SEN, S.

1954 Induction of division through Nucleic acid treatment. *Caryologia.* 6: 151-159.
Cells of root-tips of *Allium cepa* is the subject of study.

4218

1954 Study of the effect of water on nuclear constituents. *Genet. iber.* 6: 19-32.

4219

SHARMA, A. K. *and*
TALUKDAR, CHITRA

1957 Structural heterozygosity of *Cipura paludosa* Aubl. *Nature.* 180: 662-663.

4220

SHARMA, GYANENDRA

1956 Studies in the family *Euphorbiaceae;* the gametophytes of *Chrozophora rottleri* A. Juss. *J. Indian bot. Soc.* 35(2): 189-193.

SHARMA, GYANENDRA—*contd.*
As two different types of embryosac development have been reported for the species, the present study was undertaken to add some more useful information. Development of the embryosac follows the *Polygonum* type and not the bisporic type.
4221

SHARMA, K. C. *and* AGNIHOTHRUDU, V.
1958 *Septobasidium theae* Boedijn and Steimmann from Assam. (Letter). *Sci. & Cult.* 23(10): 551-552.
4222

SHARMA, K. D.
1955 Cyto-embryological studies in some Indian *Euphorbiaceae*. *Sci. & Cult.* 21(5): 270-271.
4223

SHARMA, M. R.
1954 Studies in the family *Anacardiaceae;* vascular anatomy of the flower of *Mangifera indica* L. *Phytomorph.* 4(1 & 2): 201-208.
4224

SHARMA, RAMJI
1954 Floral anatomy of *Heliotropium indicum*. *Agra. Univ. J. Res.* 3(2): 349-357.
The ontogeny and the anatomy of the flower of *Heliotropium indicum* L. is described. The placentation is parietal.
4225

1955 A technique of whole mounts for the study of floral anatomy. *Curr. Sci.* 24(9): 315-316.
4226

SHARMA, RAMJI *and* MOGHE, S. S.
1957 On the occurrence of *Dichotomosiphon* (A. Br.) Ernst. from Indore (M. P.) *Curr. Sci.* 26(8): 254-256.
This is a preliminary report of the occurrence of this rare blue-green alga in abundance in Indore. This alga is believed to be *D. tuberosus* Ernst. M. S. Randhawa has reported this from Allahabad District.
4227

SHARMA, RAMJI, PATEL, R. M. *and* MOGHE, S. S.
1958 Occurrence of *Isoetes* in Madhya Pradesh. *Curr. Sci.* 27(10): 410.
4228

SHARMA, S. L.
1952 A new report of a rust [*Puccinia kuehnii* (Ureng.) Butler] on *Erianthus munja*. (Abstr.). *Proc. 39th Indian Sci. Cong.* iii: 308-309.
4229

SHARMA, S. L. *and* DUBE, H. D.
1954 *Sphacelotheca* on *Erianthus munja*. *Proc. Indian Acad. Sci.* B. 41(1): 16-19.
4230

SHARMA, S. L., RAO, D. *and* TRIVEDI, K. N.
1956 Taxonomy of three species of *Striga* parasitic on sugaicane. *Proc. Indian Acad. Sci.* B. 43(1): 67-71.
4231

SHARMA, S. L., SRIVASTAVA, R. C., ALAM, M. N. *and* TRIVEDI, J. P.
1956 Relationship between age and height in *Saccharum spontaneum* Linn. (Letter). *Curr. Sci.* 25(3): 89.
4232

SHARMA, USHA
1958 Contributions to our knowledge of *Isoetes sampathkumarani* Rao, L.N.; vegetative parts. *Proc. Indian Acad. Sci.* B. 47: 210-224.
A critical morphological and anatomical study of the

vegetative parts of *Isoetes sampathkumarani*.

4233

SHARMA, VIJAYA SHANKAR

1958 The flora of Ajmer (Rajasthan); a list of trees, shrubs and woody climbers. *J. Bombay nat. Hist. Soc.* 55(1): 129-141.
175 species have been listed.

4234

SHARMA, Y. M. L.

1939 Gametogenesis and embryogeny of *Tamarix ericoides* Rottl. *Ann. Bot.* Lond (n.s.). 3(12): 861-870.

4235

1940 Evidence of the *Fritillaria* type of embryo-sac in *Tamarix ericoides* Rottl. *Curr. Sci* 9(1): 26.

4236

SHARMAN, B. C.

1942 Developmental anatomy of the shoot of *Zea mays* L. *Ann. bot. Lond.* (n.s.). 6: 245-282.

4237

1945 Leaf and the bud initiation in the *Graminae*. *Bot. Gaz.* 106: 169.

4238

SHAW, F. J. F.

1912 The morphology and parasitism of *Rhizoctonia*. *Mem. Dept. Agric. India*. 4: 115.

4239

1913 A sclerotial disease of rice. *Mem. Dept. Agric. India*. 5: 11.

4240

1917 *Orobanche* as a parasite in Behar. *Mem. Dept. Agric. India*. 9: 107.

4241

SHAW, F. J. F. *and* AJREKAR, S. L.

1915 The genus *Rhizoctonia* in India. *Mem. Dept. Agric. India*. 7: 177.

4242

SHAW, F. J. F. *and* BOSE, R. D.

1930 List of publications on the botany of Indian crops. Pusa, Delhi, Imperial Inst. of Agricultural Research. 256 p. (Bulletin no. 202).

4243

SHAW, F. J. F. *and* KASHI RAM

1932 Studies in Indian tobaccos; the type of *Nicotiana tabacum* L. *Indian J. agric. Sci.* 2: 345.

4244

SHAW, F. J. F. *and* KHAN, A. R.

1940 Studies in Indian chillies. *Mem. Dept. Agric. India*. 16(2): 29.

4245

SHAW, F. J. F. *and others*

1933 Studies in Indian pulses; the types of *Cajanus indicus* Spr. *Indian J. agric. Sci.* 3: 1.

4246

SHAW, G. L.

1953 Chromosome number in four *Umbellifers*. *Curr. Sci.* 22(2): 50-51.
Records the number of chromosomes in *Apium graveolens*, *Carum copticum*, *Pimpinella adscendens* and *Daucus carota*. They are 11, 9, 11 and 9 respectively.

4247

1953 On the megaspore arrangement in *Peucedanum grande* Clarke. *Curr. Sci.* 22(10): 311-312.

4248

SHAW, G. R.

1914 The genus *Pinus*. Cambridge, Riverside Press. 4 pl., 96 p. (Publication of the Arnold Arboretum, no. 5).
A monographic work of all known species of the genus.

4249

SHEBBEARE, E. O.
1930 The Malatas of North Bengal. *Indian For.* 56: 105.
4250

SHENDE, D. V.
1945 A new species of *Isoetes* from the Bombay Presidency. *J. Univ. Bombay.* (n.s.). 14(3): 50-53.
4251

SHENK, H.
1889 Uber die luft Wurzeln von *Avicennia tomentosa* und *Laguncularia racemosa*. *Flora*. [ ]: 83-88.
4252

SHENOY, K. V.
1956-57 Taxonomic studies on the flora of Bombay State.
Thesis accepted for the M.Sc. degree of the University of Bombay.
4253

SHER SINGH
1923 Ecology of Indian savannah plants. *Indian For.* 49: 356.
4254

1935 Culture of Kuth. *Indian For.* 61: 577.
4255

SHERARD, W.
1717 Museum zeylanicum, a viro celebarrimo Paul Hermanno. Leyden.
4256

SHERIAR, K. C. *and*
MASUREKAR, V. B.
1954 A text book of practical botany. Surat, Shree Gajanan Pushtakalaya. vii, 102 p.
4257

SHERIFF, AHMEDULLA
1946 The karyotype of *Curculigo orchioides* Gaertn and its relation to the karyotypes in other *Amaryllidaceae*. (Letter). *Curr. Sci.* 15: 354.
4258

1957 Spontaneous chromosome inversions in *Chlorophytum elatum* R. Br. *J. Indian bot. Soc.* 36(2): 232-238.
4259

SHERIFF, AHMEDULLA *and*
SRINIVASA MURTHY, M. H.
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1916-28 Studies in the genus *Bidens*. *Bot. Gaz.* 61: 495-506; 85: 1-29; 86: 435-447.
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1932 Revision of the genus *Cosmos*. *Publ. Field. Mus.* 8: 401-447.
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1937 The genus *Bidens*. *Publ. Field. Mus.* 16.
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1891 Meteria medica of Madras. Madras.
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1871 List of wild plants and vegetables used as food by people in famine times. *Indian For.* 3: 232.
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1871 On branched palms in south India. *J. Linn. Soc.* 11: 14.
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1888 Monograph of the Coconut palm, or *Cocos nucifera*. Madras, Printed at the Govt. Press. 22 p.
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1952 Studies on Glycine metabolism in the leaves of *Eugenia jambolana*. *Palaeobotanist.* 1: 392-399.
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SHRI RANJAN *and* JHA, V. R.
1940 The effect of Ethylene and Sulphur dioxide on the fruits of *Mangifera indica*. *Proc. Indian Acad. Sci.* B. 11(6): 267-288.
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1951 Hormone induced parthenocarpy in *Hibiscus esculentus* and *Solanum melongena*. (Letter). *Curr. Sci.* 20: 69-70.
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SHRI RANJAN *and* ZAFAR ALI KHAN
1934 Studies in the respiration of *Psidium guava* in relations to its sugar and acid contents, while passing through a senescent drift. *J. Indian bot. Soc.* 13: 17.
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SHUKLA, R. D.
1954 Gametophytes in *Balsamodendron mukul* Hook. *Curr. Sci.* 23(10): 333.
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1955 On the morphology of two abnormal gynaecia of *Peganum harmala* L. *J. Indian bot. Soc.* 34(4): 382-387.
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SHUKLA, T. C.
1954 Behaviour of tapetal cells during microsporogenesis of *Lens esculenta* Moench. *Curr. Sci.* 22(11): 365.
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1942 Palaeobotany in India; progress report for 1941. *J. Indian bot. Soc.* 21: 217.
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1944 *Dadoxylon resinosum* sp. nov. from the Chindwara Dt. of the Central Provinces. *J. Indian bot. Soc.* 23: 83-90. 4284

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1946 *Palmoxylon sclerodermum* Sahni from the Eocene beds of Nawargaon, Wardha District, C. P. *J. Indian bot. Soc.* 25(3): 105-116. 4286

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1946 Hindi madhyamik audbidhi. Nagpur, the Univ. vii, 841 p. (Hindi-Marathi vygnanikapadya pustakamala, ed. by Raghuvir, no. 9). 4287

1946 Marathi madhyamik audbidhi. Nagpur, the Univ. (Hindi-Marathi vygnanikapadya pustakamala, ed. by Raghuvir, no. 10). 4288

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1935 Investigations on the role of organic matter in plant nutrition; oxidation of organic matter in the soil and plant assimilation. *Proc. Indian Acad. Sci.* B. 1(12): 928-937. 4289

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1955 Gall formation in the roots of *Eclipta alba* Linn. *Curr. Sci.* 24(12): 424-425.
Gall produced by nematodes. 4290

1956 Response of *Eclipta alba* Linn. to high and low soil moisture. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 277.
Observations noted are interesting and the growth of tap and adventitious roots is in proportion to the moisture content of the surface soil. 4291

SIDDIQUI, Q. *and* SAYEEDUDDIN, M.

1954 A contribution to the study of root habits of the weeds of the Osmania University campus (Adigmet). (Abstr.). *Proc. 41st Indian Sci. Cong.* iii: 160.
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SILVA, MANOEL GALVAO DA

1862 Observacoes sobre a historia natural de Goa, feitas no anno de 1784; ed. by J. H. Da Cunha Rivara. Nova-Goa, Impresna nacional. iv, 37, 2 p. 4293

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1910 Monographie der Gattung *Saponaria*. Wien. 77, 4 p. 4294

SIMONDS, AUSTIN O.

1938 The anatomical development of *Lepidium draba*. *J. agric. Res.* 57(12): 912-928. 4295

SINCLAIR, JAMES

1937 The *Rhododendron* bud and its relation to the taxonomy of the genus. *Notes R. bot. Gdn. Edinb.* 19: 267-271. 4296

1955 The flora of Cox's Bazar, East Pakistan. *Bull. bot. Soc. Bengal.* 9(2): 84-116.
746 species including ferns and bryophytes are enumerated. These specimens were collected

by the author during the years 1943-45 and 1949.

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SINCLAIR, W. F.

1889 Branching Areca-nut palm. *J. Bombay nat. Hist. Soc.* 4: 317.

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1894 *Gloriosa superba*. *J. Bombay. nat. Hist. Soc.* 8: 322.

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1894 Fertilisation of the Vanilla flower by bees. *J. Bombay nat. Hist. Soc.* 8: 555.

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1895 Nux Vomica. *J. Bombay nat. Hist Soc.* 9: 95.

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SINGARAVELU MUDALIAR

1934 Abhidhana chintamani. 1639 p. An encyclopaedia in the Tamil language.
Ref.: p. 809-815—plants.

4302

SINGER, R.

1951 *Agaricales* (mushrooms) in modern taxonomy. Tucuman, Argentina, Univ. nacional de Tucuman. 832 p. (Lilloa, revista de botanica, no. 22).
It is a complete manual of *Agaricales* studies upto 1950.

4303

SINGH, B. N.

1927 Studies in the mechanism of respiration in plants.
Thesis accepted for the Degree of Doctor of Science, Banares Hindu University.

4304

1932 The basis of ageing, rejuvenation and death, being an experimental study into the physiology and chemistry of plant material. *Malaviya Commemoration Volume.* p. 955-979.
Puts forth his view of the factors relating to "senescence" and death in plants and animals.

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1935 The correlation between life duration and respiratory phenomenon. *Proc. Indian Acad. Sci.* B. 2(4): 387-402.

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1940 Plant physiology. *Ann. Rev. biochem. & alld. Res.* [ ]: 79-92.

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1941 Age-fertiliser effect upon certain aspects of the physiology and chemistry of sugarcane. *Proc. Indian Acad. Sci.* B. 13.

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SINGH, B. N., CHAKRAVARTI, S. C. *and* KAPOOR, S. P.

1938 An interspecific hybrid between *Hibiscus ficulneus* and *Hibiscus esculentus*. *J. Hered.* 29: 37-41.

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SINGH, B. N. *and* CHAUDHURI, N. S.

1935 Induced morphological, physiological and chemical variations following seed exposure to X-radiation in *Nicotiana tabacum*. *Proc. Indian Acad. Sci.* B. 1: 435-445.

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SINGH, B. N. *and* DAS, K.

1938 Distribution of weed species on Arable Land. *J. Ecol.* 26: 455-466.

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SINGH, B. N. *and* JHA, J. D.

1939 Morphology of some abnormal flowers in some angiosperms. *New Phytol.* 37(5): 396-408.
The following species have been included in this research: *Tropaeolum majus, Trichosanthes anguina. Allamanda grandiflora* and *Utricularia coerulea*.

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1935 Photosynthetic behaviour of leaves to variations in temperature. *Proc. Indian Acad. Sci.* B. 1: 736-754.
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1935 The reactions of the assimilatory system to alternations of light intensity. *Proc. Indian Acad. Sci.* B. 1: 754-762.
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1935 The influence of pressure of Carbon dioxide on photosynthetic efficiency. *Proc. Indian Acad. Sci.* B. 1: 909-927.
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SINGH, B. N., LAL, K. N. *and* LAL, M. B.
1939 Influence of artificial fertilisers on photosynthetic efficiency of *Andropogon sorghum*. *Proc. Indian Acad. Sci.* B. 9: 51-168.
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SINGH, B. N., LAL, K. N. *and* PRASAD, K.
1938 Photosynthetic specificity in relation to biochemic constitution of leaves. *Proc. Indian Acad. Sci.* B. 8(4): 301-308.
A comparative study of the photosynthetic activity of a number of plant species under optimum conditions.
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SINGH, B. N. *and* LAL, M. B.
1940 Photosynthetic efficiency of *Saccharum officinarum* leaves as influenced by certain manurial treatments. *Proc. Indian Acad. Sci.* B. 11: 133-154.
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SINGH, B. N. *and* SARADHY, M. V.
1937 Superposed parasitism of *Cuscuta reflexa* Roxb. *Proc. nat. Acad. Sci. India.* 7(1): 35-38.
Case of double parasitism in which *Cuscuta* was found to infect *Loranthus*, when both were growing on a common host *Bauhinia*, has been recorded.
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SINGH, B. N., SINGH, R. B. *and* SINGH, K.
1935 Investigations into the water requirements of crop plants. *Proc. Indian Acad. Sci.* B. 1: 471-495.
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SINGH, G. P.
1954 Two new species of *Synchytrium* from Behar; *S. micranthum* sp. nov. and *S. cessampelum* sp. nov. *Curr. Sci.* 23(11): 369.
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SINGH, H. B.
1945 Some useful wild plants of the Delhi Province. *Indian J. agric. Sci.* 15(6): 297-307
4322

SINGH, K. P.
1958 Akinete formation in the genus *Hormidium* (Kutz.) Klebs. *Curr. Sci.* 27(7): 261-262.
4323

SINGH, LAL BEHARI *and* SINGH, RAM NATH
1956 A monograph on the mangoes of Uttar Pradesh. Lucknow, Supdt., Ptg. & Stny., U.P. 2v.
4324

SINGH, M. P.
1950 Genetic and geographical origin of plants. *Agric. & Anim. Husb. U.P.* 1(7 & 8): 42-47.
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SINGH, R. C. *and* MUKHERJI, S. K.
1952 Studies on *Saccharum spontaneum* L., morphological variations in some south Indian types. *Indian J. agric. Sci.* 22: 325-346.
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SINGH, R. S.
1956 Leaf spot of *Alstonia scholaris* R. Br. (Letter). *Sci. & Cult.* 21(9): 534.
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SINGH, RAM NAGINA
1938 The *Oedogoniales* of the United Provinces, India. *Proc. Indian Acad Sci.* B. 8(5): 373-395.
Deals with some of the forms collected from the rice fields of Gorakhpur and Benaras during 1935-37. Twenty-five forms have been recorded, out of which six species, six varieties and thirteen forms are new.
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1938 The *Zygnemoideae* of the United Provinces of India. *J. Indian bot. Soc.* 17: 369-384.
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1939 An investigation into the algal flora of paddy field soils of the U.P. *Indian J. agric. Sci.* 9(1): 55-77.
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1941 On some phases in the life history of the alga, *Fritschiela tuberosa* Iyengar and its autecology. *New Phytol.* 40(3): 170-182.
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1942 The fixation of elementary Nitrogen by some of the commonest blue green algae from paddy field soils of U.P. and Bihar. *Indian J. agric. Sci.* 12.
4332

1942 *Wollea bharadwajae* sp. nov. and its autecology. *Ann. bot. Lond.* 6(24): 593-606.
4333

1942 New species of the genus *Raphidiopsis* Fritsch; *R. indica* sp. nov. exhibiting morphological variants. *J. Indian bot. Soc.* 21(3 & 4): 239-243.
4334

1942 On a perennial form of *Scytonema* (*S. ocellatum* Lyngb. forma *minor* Bharadwaja) and its autecology. *Proc. Indian Acad. Sci.* B. 16: 49-66.
4335

1942 Reproduction in *Draparnaldiopsis indica* Bharadwaja. *New Phytol.* 41(4): 262-273.
4336

1943 The genus *Draparnaldiopsis* Smith and Klyver: (Letter). *Curr. Sci.* 12(5): 159-160.
A few important observations culled out from the detailed investigation of the life history of this alga.
4337

1945 Nuclear phases and alternation of generation in *Draparnaldiopsis indica* Bharadwaja. *New Phytol.* 44(2): 118-129.
4338

1945 On Randhawa's 'A critical review of some recently created new species of Indian *Zygnemales'*. *Proc. Indian Acad. Sci.* B. 22(6): 378-397.
4339

SINGH, RAM PRATAP
1956 Development of endosperm and embryo in *Phyllanthus niruri* L. *Agra Univ. J. Res.* 5(1): 163-167.

SINGH, RAM PRATAP—*contd.*

The embryo development is of solanad type. This type of embryo development has not been reported by previous workers on *Euphorbiaceae*.

4340

SINGH, S. N.

1958 The study of seed content and fruit shape in relation to removal of stigma in *Luffa* species. *Curr. Sci.* 27(4): 143-144.

Removal of stigmas before pollination and the unequal distribution of pollen on the stigmatic surfaces resulted in the distortion of the normal fruit shape in the species of *Luffa*.

4341

SINGH, SATYA PAL

1954 Morphological studies in *Morus* spp. *Agra Univ. J. Res.* 3(2): 323-341.

A detailed study of the embryological stages and the development of the flower, fruit and seed of this genus has been made.

4342

1956 Floral anatomy of *Cannabis sativa* L. *Agra Univ. J. Res.* 5(1): 155-161.

Deals with the floral anatomy of female and male flowers of *Cannabis sativa* L. This investigation differs from that of Bechtel, so far as the vascular structure of the female flower is concerned. The study of the vascular anatomy of the male flower confirms his observations.

4343

SINGH, SURENDRANATH

1947 Aerial roots in the sponge gourd, *Luffa* sp. *J. Bombay nat. Hist. Soc.* 47(3): 397-398.

Aerial roots from nodes placed high above the soil level have been recorded in *Luffa acutangula* and *L. aegyptiaca* Mill.

4344

SINGH, SURESH NARAYAN

1950 Micro-fossils from the Bagh beds of Barwaha near Indore. (Letter). *Curr. Sci.* 19(6): 174-175.

Micro-fossil algae, *Neomeris* sp. and *Archaeolithothamnion* sp. have been collected from Coralline limestones, near Barwaha.

4345

SINGH, T. C. N.

1926 A note on fasciation of flowers in *Quisqualis indica* L. *J. Indian bot. Soc.* 5: 6.

4346

1929 A note on the presence of a sporangium on the indusium of *Cheilanthes albomarginata*. *J. Indian bot. Soc.* 8: 207.

4347

1930 Notes on vegetative reproduction in two mosses from Mussoorie. *New Phytol.* 29: 355.

4348

1930 Notes on the occurrence of vegetative buds on the root of grass. *J. Bombay nat. Hist. Soc.* 34: 841.

4349

1930-31 Notes on the teratology of certain Indian plants. *J. Indian bot. Soc.* 9: 248; 10: 134.

4350

1931 Studies in the morphology of the pollen grain; *Boraginaceae*. *J. Indian bot. Soc.* 10: 38.

4351

1931 On the effect of Potassium permanganate on the growth of

SINGH, T. C. N.—*contd.*
flowering and fruiting of *Cicer arietinum*. *J. Indian bot. Soc.* 10: 190.
4352

1933 *Cuscuta* as a parasite on a fern. *Ann. bot. Lond.* 47: 423.
4353

1933 An unusual growth phenomenon in *Coleus barbatus*. *Curr. Sci.* 1: 273.
4354

1934 Observations in pollination by Sun birds in *Morinda tinctoria* Roxb. *J. Indian bot. Soc.* 13: 41.
4355

1934 Chromosome numbers in the genus *Saccharum*. *Indian J. agric. Sci.* 4(2): 290.
4356

1935 Notes on the teratology of certain Indian plants. *J. Indian bot. Soc.* 14: 313.
4357

1935 Sterility of crop plants and a study of their root system. *Curr. Sci.* 4(1): 30.
4358

1953 A unique case of a profusely branched Palmyra palm. *J. Bombay nat. Hist. Soc.* 51(3): 759.
4359

1953 On the vernalization of tubers of *Cyperus rotundus* L. *Curr. Sci.* 22(6): 181.
Demonstrates that underground tubers when subjected to low temperature could be vernalized like seeds.
4360

SINGH, T. C. N. *and* NATARAJAN, A. T.
1950 Angiospermous remains from Barmer sandstones. (Letter). *Curr. Sci.* 19(4): 124-125
Fossil pollen grains from Barmer sandstones of Jodhpur match closely with the pollen grains of the family *Onagraceae* in shape and form. Bose's fossil grains would suggest a comparison with living onagraceous type of pollen grains.
4361

SINGH, T. C. N. *and* PONNIAH, STELLA
1955 On the response of the structure of the leaves of *Balsam* and *Mimosa* to the musical sounds of violin. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 254.
4362

1956 On histological changes in plants evoked by musical excitation of violin and veena. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 270-271.
Mimosa pudica, Desmodium gyrans, Impatiens balsamina, Ipomoea batatas and *Manihot utilissima* were experimented upon.
4363

SINGH, T. C. N. *and* SHAH, R.
1950 The chromosome counts of *Citrus suntara*. (Letter). *Curr. Sci.* 19(12): 385.
Citrus suntara Hort. ex Tanaka, the Nagpur loose-skinned orange has n=9. It agrees with other species of *Citrus*.
4364

SINGH, T. C. N. *and* SINGH, B. N.
1928 Notes on the teratology of certain angiosperms. *J. Indian bot. Soc.* 7: 99.
4365

SINGH, U. B.

1945 Studies of certain species of *Cercospora* and control of the diseases of fruits and fruit trees of Kumaon.
Thesis submitted for the D. Phil Degree of the Allahabad University.
4366

SINGH, VIJAY PRATAP

1941 The *Chlorophyceae* of the Benaras District. *Proc. Indian Acad. Sci.* B. 14(3): 256-260.
4367

1941 On a collection of algae from the Chamba State, Punjab. *Proc. Indian Acad. Sci.* B. 14(3): 250-255.
A collection of algae made in Chamba and part of the Raui valley during August 1940 comprising twenty-one forms belonging to *Myxophyceae* and *Chlorophyceae* is described.
4368

1957 Studies in the artificial germination of pollen grains; germination of pollen grains of *Sesbania aculeata* Pers. and *Crotalaria juncea* L. *Agra Univ. J. Res.* 6: 63-68.
4369

SINHA, B. N.

1929 The origin and evolution of the *Archegonium*—a discussion. *J. Indian bot. Soc.* 8: 208.
4370

1930 On a peculiar abnormality of capitula in *Tagetes erecta* L. *J. Indian bot. Soc.* 9: 244.
4371

1933 A note on the variation of leaf in the Railway creeper. *J. Indian bot. Soc.* 12: 48.
4372

1933 Observations in short cut to nectary in *Cestrum fasciculatum* Miers. *J. Indian bot. Soc.* 12: 77.
4373

SINHA, BALVANT

Vanoushadi Darsika. Benaras. 123 p.
In the Hindi language. Latin names are given for all the plants.
4374

SINHA, J. C.

1933 Jute in early British days. *J. Asiat. Soc. Bengal.* (n.s.). 28(1): 149-156.
4375

SINHA, JWALA PRASAD

1952 Notes on Indian hepatics (Letter). *Curr. Sci.* 21(11): 318-319.
Pellia neesiana (Gottsche) collected from Kathmandu has been described and recorded.
4376

SINHA, N. P.

1950 On the somatic chromosomes of some non-tuberous *Solanum* species. (Letter). *Curr. Sci.* 19(11): 348.
4377

1951 Chromosome number and morphology in *Physalis*. (Letter). *Curr. Sci.* 20(3): 70-71.
Somatic chromosome from root-tip sections of *Physalis peruviana, P. pubescens, P. alkekengi* and *P. francheti* showed 2n=24, confirming the records made by Darlington and Ammal.
4378

SINHA, S.

1940 On the characters of *Choanephora cucurbitarum* Thaxter on chillies (*Capsicum* sp.). *Proc. Indian Acad. Sci.* B. 11(4): 162-166.
4379

1940 A wet rot of leaves of *Colocasia antiquorum* due to secondary infection by *Choanephora cucurbitarum* Thaxter and *Choanephora trispora* Thaxter. *Proc. Indian Acad. Sci.* B. 11(4): 167-176.

4380

1951 The vegetation of glacial moraines of the Pindari glacier, Kumaon, India. *Proc. nat. Acad. Sci. India.* 21(2-6): 91-98.
26 species of angiosperms, all new records, have been described. Many others have been listed. Gynmosperms, lichens and mosses are abundant.

4381

1955 The vegetation of glacial moraines of the Pindari glacier, Kumaon, India. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 242.
Area at a height of 12000-14000 ft. has been studied. 100 species belonging to 25 families and 58 genera are described. *Ephedra gerardiana* occurs. Tree limit is reached at 10,000 feet, where association of *Rhododendron barbatum* is found.

4382

SINHA, S. C.

1925 On the antiquity and therapeutic uses of the Indian Spikenard. *J. Bombay nat. Hist. Soc.* 30(4): 777-787.
An historical account followed by a botanical description and its uses.

4383

1956 Some abnormal cones of *Equisetum debile* Roxb. *J. Indian bot. Soc.* 35(1): 123-125.
One of the specimens examined was found to have the cone divided into two segments, another specimen had a short proliferated shoot and a third a long proliferated shoot above the cone.

4384

SINHA, SALIGRAM

1943 The diseases of mango fruit and some related problems together with a study of certain members of the *Choanephorales*.
Thesis for the Doctorate Degree of the Lucknow University.

4385

SINHA, H. R.

1938 Zum Phylogenei der fieder Blatter der *Burseraceae* und verwandter Familien. *Ann. Jard. bot. Buitenz.* 48(2): 69-101.

4386

SINNOT, E. W. A.

1939 A developmental analysis of the relation between cell size and fruit size in *Cucurbits. Amer. J. Bot.* 26(4): 179-189. *Cucurbita pepo, Lagenaria vulgaris* and *Citrullus vulgaris* have been described.

4387

SINSKAIA, E. N.

1927 Geno-systematical investigations of cultivated *Brassica. Bull. appl. Bot. Pl. Breed.* 17(1): 1-166.
In Russian with an English summary.

4388

1928 The oleiferous plants and root crops of the family *Cruciferae. Bull. appl. Bot. Pl. Breed.* 19(3): 1-648.

4389

SIRCAR, S. M.

1942 Studies in the physiology of rice: photoperiodic response

SIRCAR, S. M.—*contd.*
in one variety of winter paddy—a preliminary report. *J. Indian bot. Soc.* 21(1 & 2): 41-50.
Pot culture experiments on Photoperiodic response in winter paddy variety are described. Early emergence of ears in short-day treated paddy is significant. Its bearing on agricultural practice is discussed.

4390

1957 Photoperiodic studies in crop plants. *Indian J. Genet.* 17: 379-385.

4391

SIRCAR, S. M. *and* SEN, N. K.
1941 Studies in the physiology of rice: effect of Phosphorus deficiency on growth and Nitrogen metabolism of rice leaves. *J. agric. Sci.* 11(2).

4392

SIRDESHMUKH, K. B.
1955 Occurrence of a regular flower of *Clitoria ternatea*. *Sci. & Cult.* 21(4): 210.
The corolla of the flower has five similar petals.

4393

SIRJAEV, G.
1928-33 Generis *Trigonella* L.; revisio cretica. *Publ. Fac. Sci. Univ. Masaryk.* no. 102: 1-57; no. 110: 1-32; no. 128: 1-31; no. 136: 1-33; no. 148: 1-43; no. 170: 1-37.

4394

SITARAMA RAO, V. *and* MURTI, N. N.
1937 A noteworthy feature in the anatomy of cycas roots. *Curr. Sci.* 5(9): 478.
Reports that tetrarch condition is present in the roots lying near the surface of the soil, whereas the normal diarch condition is found in the roots lying deeper down in the soil. There is no algal infection in this condition. This observation has been confirmed from Sahni's laboratory at Lucknow.

4395

SITHOLEY, R. V.
1943 Plant remains from the triassic of the Salt range in the Punjab. *Proc. nat. Acad. Sci. India.* 13: 300-327.

4396

1949 *Protopteris nammalensis* sp. nov., a jurassic cyatheaceous tree fern from the Salt range, Punjab. *Proc. nat. Inst. Sci. India.* 25(1): 1-10.
This is the first record of the genus from India. The cyatheaceous fern fossil has been reported from the south and the eastern part of India hitherto. The discovery is interesting.

4397

1951 On the occurrence of the two winged pollen in the triassic rocks of the Salt range, Punjab. (Letter). *Curr. Sci.* 20(10): 266.

4398

1953 Palaeobotany in India. *Palaeobotanist.* 2: 111-117.

4399

1954 The mesozoic and tertiary floras of India—a review. *Palaeobotanist.* 3: 55-69.

4400

1957 Palaeobotany. *Progress of Science in India, Section 6, Botany.* p. 149-164.
Discusses the progress of the subject palaeobotany (1939-50) as disclosed in the several geological strata of India,

beginning with the loftiest precambrian of the Cuddapah and Vindhyan systems and ending with the tertiary.

4401

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Talipot palm in flower. *Trop. Agriculturist.* 14: 458.

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1922 The leaf fall. *Gdnrs.' Chron.* [ ]: 292.

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1927 Genera *Podostemonaceae* from Ceylon: *Lawia zeylanica* Tul., *Podostemon subulatus* Gardn. & *Hydrobryum olivaceum* Tul. *Acta hort. gothoburg.* 3: 57-63.

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1938 Chromosome numbers in the *Malvaceae. J. Genet.* 31(2): 263-293.

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SKUTCH, A. F.

1928 The capture of prey by bladderwort; a review of the physiology of the bladder. *New Phytol.* 27: 261-297.

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1930 Notes on Ceylon diatoms. *Ann. R. bot. Gdn. Peradeniya.* 11: 251-260, 333-338.

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SKYRMA, E. W.

1935 Drugs derived from the genus *Plantago*, their botanical sources (*Plantago ovata, P. psyllium, P. amplexicaulis* and *P. arenaria*). *Quart. J. Pharm.* 7(1): 1-12.

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1935 The structure and histology of Isaphgula (the seeds of *Plantago ovata* Forsk.) *Quart. J. Pharm.* 8(1): 1-12.

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1935 *Psyllium* and the seeds of certain other species of *Plantago. Quart. J. Pharm.* 8(4): 609-621.

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1956 The Ceylon species of *Leptochilus. Ann. Mag. nat. Hist.* 9: 865-877.
Four valid species are described for Ceylon with synonymy, detailed review of taxonomy, records, etc. for each.

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1956 *Microlepia speluncae* (L.) Noore, *M. trapeziformis* (Roxb.) Kuhn. and *M. firma. Kew Bull.* 3: 523-531.
Provisional arrangement of certain species and varieties and of *Microlepia* pending further information culled from living plants. Each species is discussed in detail along with sononymy. Proposes the following: *Microlepia speluncae* var. *pubera* (*Davallia flaccida* var. *pubera* Cl.); *M. speluncae* var. *pubescens* (*D. polypodioides* var. *pubescens* Hook.); *M. firma* var. *hirta* (*D. polypodioides* var. *hirta* Cl.); *M. firma* var. *subglabra* (Ceylon).

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1955 Studies in old world *Proteaceae. Blumea.* 8(1): 1-95.
A taxonomic study of all *Proteaceae* in Asia proper and of the greater part of the *Proteaceae* in Malaysia with notes on those in adjacent parts of Micronesia, Melanesia, Polynesia in Australia.

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1938 Monographie der Gattung *Hydnocarpus* Gaertner. *Bot. Jb.* 69(1): 1-94.

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1941 Vaccinioideen Studien. *Bot. Jb.* 71(4): 375-510.

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SLEUMER, H. L. *and* HOTTLUM, R. E.

1957 Florae Malesianae praecursores; Revision of the genus *Diplycosia* (*Ericaceae*); Genus *Gaultheria* in Malaysia; Taxonomic subdivisions of the *Gleicheniaceae* with descriptions of new Malaysian species and varieties. *Reinwardtia.* 4: 119-188, 257-280.

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SLOOTEN, D. F. VAN

1925 The *Flacourtiaceae* of the Dutch East Indies. *Bull. Jard. bot. Buitenz.* 7: 291-421.

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1926-27 The *Dipterocarpaceae* of the Dutch East Indies. *Bull. Jard. bot. Buitenz.* 8: 1-17; 9: 67.

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1918 Notes on a tour in Henzada Division. *Indian For.* 44.

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Subsequent edition published in 1945 under the title *A simple key to one hundred common trees of Burma.*

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SMITH, A. C.

1941 Notes on old world *Hippocrateaceae*. *Amer. J. Bot.* 28: 438-443.

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". . . the opportunity is taken to review the development in nomenclature and especially the part played by American botanists in this field upto the present day. The vicissitudes of botanical nomenclature as the rules have been modified and finally expressed in a new 'International code of Botanical Nomenclature' (published in December 1956 resulting from decisions taken at 8th International Botanical Congress of 1954) are reviewed on the occasion of the Golden Anniversary of the Botanical Society of America."—Foreword.

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1931-33 Recent lichen literature. *Trans. Brit. mycol. Soc.* 15: 193-235; 18: 93-126.

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1909 On the internal temperature of leaves in tropical isolation with special reference to the effect of their colour on the temperature, periodicity of the appearance of young coloured leaves of trees growing in Peradeniya gardens. *Ann. R. bot. Gdn. Peradeniya.* 4: 292-298.

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SMITH, E. D.
1935 Ancient history of the *Chrysanthemum*. *Bull. Chrys. Soc. Amer.* 3: 6-15.
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1928 Vascular anatomy of Ranalian flowers; *Ranunculaceae, Menispermaceae, Calycanthaceae, Anonaceae*. *Bot. Gaz.* 85: 152-177.
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1951 Manual of phycology; an introduction to the algae and their biology; ed. by G. M. Smith. Waltham, Mass., Chronica Botanica Co. 375 p. "Algologists have so far suffered from (1) difficulty of studying living specimens in their natural surroundings and (2) scattered and incomplete literature. This volume is a valuable addition to phycological literature, because it brings together a mass of information not always accessible either to the student or the professional."—C. I. Dinkuison, *Kew Bull.* 4: 457-458 (1952).
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SMITH, J. J.
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1932 *Ericaceae* from the eastern archipelago. *Repert. nov. Spec. Regn. veg.* 30: 167-178.
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1932 *Orchidaceae* novae Malayensis. *Bull. Jard. bot. Buitenz.* 12: 105-150.
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1821 Grammar of botany; illustrative of artificial as well as natural classification, with an explanation of Jussieu's system . . . to which is added a reduction of all the genera contained in the Catalogue of North American plants, to the natural families of the French Professor by Henry Muhlenberg. New York, J. V. Seaman. xvi, 284 p.
Subsequent edition published in 1826.
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SMITH, JOHN
1875 Historia filicum; an exposition of the nature, number and organography of ferns and review of principles upon which genera are founded and the systems of classification of the principal authors. London, Macmillan & Co. xiv, 429 p.
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1896 Ferns, British and foreign; the history, organography, classification and enumeration of the species of garden ferns with a treatise on their culti-

vation; new and enlgd. ed. London, Allen & Co. xv, 450 p.

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SMITH, JOHN YOUNG

1871 Matheran hill, its people, plants and animals. Edinburgh, Maclachlan & Stewart. 150 p.
Second edition published from Bombay in 1881.

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SMITH, W. R.

1898 A contribution to the life history of the *Pontederiaceae*. *Bot. Gaz.* 25: 324-337.

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1911 Plantarum novarum in herbaris horte regn Calcuttensis cognitorum decas. *J. Asiat. Soc. Bengal.* (n.s.). 7: 69-75.

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1911 Note on *Sterculia alata* Roxb. var. *irregularia;* a remarkable instance of leaf variation. *J. Asiat. Soc. Bengal.* (n.s.). 7: 85.

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1912 Two new species of *Craibiodendron*. *Notes R. bot. Gdn. Edinb.* 5: 157-160.
Craibiodendron shanicum W. W. Sm. and *Craibiodendron mannii* W. W. Sm. are described.

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1913 Some additions to the flora of eastern Himalaya. *Rec. bot. Surv. India.* 4(5): 261-272.

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1913 Four new species of *Compositeae* from south India and a new *Justicia* from Assam. *Rec. bot. Surv. India.* 4(5): 283-285.

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1913 Some additions to the flora of Burma. *Rec. bot. Surv. India.* 4(5): 273-282.

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1913 The Alpine and sub-Alpine vegetation of south-eastern Sikkim. *Rec. bot. Surv. India.* 4(7): 323-431.

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1913 New Indian *Didymocarpi*. *Rec. bot. Surv. India.* 6(2): 41-43.

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1914 Species novae plantarum in Herbaris horti reg. Calcuttensis cognitorum. *Rec. bot. Surv. India.* 6(4): 99-104.

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1920 Notes on certain Asiatic *Styracaceae*. *Notes R. bot. Gdn. Edinb.* 12: 231.

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1921 New Orchids from China (Yunnan) and northern Burma. *Notes R. bot. Gdn. Edinb.* 13: 189.

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1926 New species of *Primula* from Tibet. *Notes R. bot. Gdn. Edinb.* 15: 69.

4467

1931 Additions to the *Primula* flora of Nepal. *Notes R. bot. Gdn. Edinb.* 16: 227.

4468

1936 New *Primulas* from the Himalayas, Tibet, China and Burma. *Notes R. bot. Gdn. Edinb.* 19: 167.

4469

SMITH, W. W.—*contd.*

1937 New *Primulaceae* from southern Tibet. *Notes R. bot. Gdn. Edinb.* 19: 199-220.
P. dickieana Watt, *P. muscoides* H.f. ex. Watt, *P. tenuiloba* (H.f.) Pax., *P. filipes* Watt are common to Sikkim, Bhutan and south-eastern Tibet.
4470

1938 Additions to the *Primula* flora of Tibet. *Notes R. bot. Gdn. Edinb.* 19: 309-314.
Primula articulata, P. advena and vars. *concolor* and *argentea* vars. nov., and *P. sandemaniana* are new.
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SMITH, W. W. *and* BALFOUR, I. B.

1915-16 *Beesia,* a new genus of *Ranunculaceae* from Burma and Yunnan. *Notes R. bot. Gdn. Edinb.* 9.
4472

SMITH, W. W., BANERJEE, S. C. *and* RAMASWAMI, M. S.

1913 Two decades of new Indo-Burmese species. *Rec. bot. Surv. India.* 6(2): 29-40.
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SMITH, W. W. *and* CAVE, G. H.

1911 The vegetation of Zemu and Llonakh valleys of Sikkim. *Rec. bot. Surv. India.* 4(5): 141-260.
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1913 A note on the Himalayan species of *Daphne. Rec. bot. Surv. India.* 6(2): 45-54.
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1914 A note on the Himalayan species of *Alangium. Rec. bot. Surv. India.* 6(4).
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SMITH, W. W. *and* FORREST, G.

Three Indo-Burmese *Rhododendrons. Notes R. bot. Gdn. Edinb.* 8: 213-217.
R. parishii C.B.C., *R. elliotic* Wall. and *R. kyawi* Lace & Smith, W. W. are described.
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1923 New *Primulaceae. Notes R. bot. Gdn. Edinb.* [ ]: 31.
4478

1927 Some new Asiatic *Primulaceae. Notes R. bot. Gdn. Edinb.* 15: 247-258.
Includes descriptions of new species and varieties of *Primula* and *Omphalogramma.*
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1928 The sections of the genus *Primula. Notes R. bot. Gdn. Edinb.* 16: 1-50.
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1929 The sections of the *Primula. Proc. Fourth Primula Conference.* p. 4-62.
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SMITH, W. W. *and* KINGDON-WARD, F.

1926 New species of *Primula* from Tibet with an enumeration of the *Primulas* collected by Capt. Kingdon-Ward and Lord Cawdon in S.-E. Tibet in 1924. *Notes R. bot. Gdn. Edinb.* 15: 69-89.
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1927 Additional species of *Primula* from Burma-Tibet frontier. *Notes R. bot. Gdn. Edinb.* 15: 299-304.
4483

SMITH, W. W. *and* SMALL, J.

1917 *Cavea,* a new genus of *Compositeae* from E. Himalaya. *Trans. bot. Soc. Edinb.* 27: 119-123.
C. tanguensis comb. nov. (*Saussurea tanguensis* from Sikkim) is described.
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SMITHSON, ELIZABETH

1956 The comparative anatomy of the *Flagellariaceae. Kew Bull.* 3: 491-501.

This investigation was undertaken as a contribution to the broad survey of the anatomy of the monocotyledons now in progress at the Jodrell Laboratory, Kew. The anatomical structure of the leaves of four species and the stems of two species, included in *Flagellariaceae,* is described. Results support the view of Erdtmann (1952) that *Hanguana* should be removed from *Flagellariaceae.*

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SMITH-WHITE, S.

1942 Cytological studies in the *Myrtaceae;* microsporogenesis in several genera of the tribe *Leptospermoideae. Proc. Linn. Soc. N.S.W.* 67: 335-342.

4486

SMYTHE, F S.

1930 The Kangchenjunga adventure. London, Victor Gollancz Ltd. 464 p.
The scientific side of the expedition made in 1930 under the leadership of Prof. G. Dyhrenfurth is well attended to and interesting and important data is given.

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1932 Kamet conquered. London, Victor Gollancz Ltd. xvi, 420 p.
Gives an account of the collection of plant specimens and seeds for cultivation in the gardens of England.
Chapter XXVI (p. 348-371) is devoted to the account of the flowers of the Kamet and Badrinath ranges. A list of plants collected is given at the end of the chapter, with the heights at which they were collected.

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1938 The valley of flowers. London, Hodder and Stoughton. 318 p.
Deals with the Bhyunder valley of the Himalayas. The author who inspected this valley for the second time in 1937 gives an account of the plants and seeds available in the valley. In the last chapter, botanical notes and a list of plants collected by the author and R. L. Holdsworth in 1931 are given.

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SMYTHIES, A.

1881 Flowering of the large bamboo at Dehra Dun. *Indian For.* 6: 336.

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1893 Tour in Jaunsur. *Indian For.* 19: 237, 287, 325, 367, 405, 451, 767.

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SMYTTAN, G.

1833 An account of the varieties of east Indian opium. *Trans. med. phys. Soc. Calcutta.* 6: 76.

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SNOWDON, J. D.

1935 A classification of the cultivated *Sorghums. Kew Bull.* [ ]: 221-255.
The following species and varieties of *Sorghums* are described:—*Sorghum conspicuum* Snowdon; *S. conspicuum* var. *orientale* Snowdon; *S. roxburghii* Stapf var. *parrum,* var. *lians* Stapf, and var. *nanum* var. nov.; *S. dochna* (Forsk.) Snowdon comb. nov., var. *pulchrum* (Burkill) Snowdon comb., var. *atrum* Snowdon var. nov., var. *burmanicum* (Burkill) Snowdon, var. *irungu* (Burkill) Snowdon, var. *wightii* (Hack.) Snowdon, var. *melliferum* Snowdon; *S. bicolor*

SNOWDON, J. D.—*contd.*
(Pers.) Snowdon, var. *picigutta* var. nov.; *S. milliforme* (Hack.) Snowdon; *S. milliforme* (Hack.) var. *rotundulum* Snowdon, *sikkimense* var. nov.; *S. durra* (Forsk.) Batta and var. *mediocre* (Burkill) Snowdon, var. *corinbatoricum* (Burkill) Snowdon, var. *eois* Snowdon, var. *fuscum* Snowdon, var. *orbiculatum* Snowdon, var. *sulaylindricum* Snowdon; *S. subglabrescens* (Steud.) Schweinf, var. *pabulare* var. nov., var. *compactum* (Burkill) Snowdon, var. *ihungiforme* (Burkill) Snowdon, var. *oriforma* var. nov.

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1936 The cultivated races of *Sorghum*. London, Adland & Sons. vii, 274 p.
A monograph.

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SNYDER, L. A., ALICE, R. HERMANDEZ *and* WARMAKE, H. E.

1955 The mechanism of apomixis in *Pennisetum ciliare*. *Bot. Gaz.* 116(3): 209-221.
Cytological studies of seven collections of *Pennisetum ciliare*, from widely separated localities, indicate that apomixis, involving apospory and pseudogamy, is the predominant mode of reproduction in this highly variable species.

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SOAVE, M.

Il ferro nella *Trapa natans*. *Ann. Accad. agr. Torino*. 48: 409-415.

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SOLEREDER, H. *and* MEYER, F. J.

1908 Systematic anatomy of the dicotyledons; a handbook for laboratories of pure and applied botany; tr. by L. A. Boodle and F. E. Fritsch; rev. by D. H. Scott. London, Oxford Univ. Press. 2v.

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1928 Systematische Anatomie der Monocotyledonen. Berlin, Gebruder Borntraeger. -v.

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SOLMS LAUBACH, H.

1869 *Chloranthaceae*. *DC. Prodr. Syst. Nat.* 16(1): 472-485.

4499

1875 Das Haustorium der *Loranthaceen* und der Thallus der *Rafflesiaceen* und *Balanophoraceen*. *Abh. naturf. Ges. Halle*. 13.
Reprinted at Halle.

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1878 Monographia *Pandanacearum*. *Linnaea*. [ ]: 1-110.

4501

1878 Uber den Bau von Bluthe und Frucht in der Famille der *Pandanaceae*. *Bot. Ztg*. [ ]: 321, 337, 353.

4502

1883 *Pontederiaceae*. *DC. Monogr. Phan*. 4: 501-535.
A monograph.

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SOMMERS, K.

1958 Notes on *Rauwolfia* and ancient medical writings of India. *Med. Hist*. 2(2): 87-91.
While commenting on the use of Reserpine, an alkaloid of *Rauwolfia*, in the treatment of hypertension and as a tranquillizing agent in states of tension and anxiety Sommers has described the history of Indian (ancient) medicine, starting from 'Ayurveda', originated by Brahma himself, the creator of the Universe. Gives the modern applications

of the Serpentine root for a number of ailments.

4504

SONNERAT, P.

1782 Voyage aux Indes Orientalis et a la Chine, fair par ordre du Roi, depuis 1774 jusqu'en 1781: dans lequel on triate des moeurs, de la religion, des sciences, et des arts des Indiens, des Chinois, des Pegouins et des Madetgasses, suivi d'observations, sur le cap de Bonne Esperance, les Isles de France & de Bourbon, les Maldives, Ceylon, Malacca, les Philippines & les Moluques & de recherches sur l'histoire naturelle de ces pays. Paris 2v.

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SOO, R. VON

1929 Revision der *Orchideae; Ophrydineae* von Ostasien und dem Himalaya. *Ann. hist.-nat. Mus. hung.* 16: 339-384.

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SOUEGES, RENE

1938 Embryogenie des *Portulacees;* development de l'embryon chez le *Portulaca oleracea* L. *C. R. Acad. Sci. Paris.* 206: 768-770.

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1939 Embryogenie et classification. Paris, Hermann & Co. -v.

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SOULE, MORTIMER J., JR.

1951 A bibliography of the mango (*Mangifera indica* L.). Florida, Univ. of Miami. vi, 89 p.

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SPARK, G.

1869 Die Lehre von der Gymnospermie in Pflanzenreiche. St. Petersburg.

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SPENCER, JOHN L.

1955 A cytological study of the *Cactaceae* of Puerto Rico. *Bot. Gaz.* 117(1): 33-37.
Some cacti found hither in cultivation or have run wild in India are included in this investigation. They are *Hylocereus trigonus, Nopalea coccinellifera, Opuntia dillenii, O. ficus-indica, O. moniliformis* and *Pereskia pereskia.* Twenty species representing 13 genera were worked out. Somatic chromosome counts from root tip material are the same for all species (2n=22).

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SPLENDORE, A.

1906 Sinossi descrittiva ed iconographica dei semi del genre *Nicotiana.* 163 p.

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SPORNE, K. R.

1954 A note on nuclear endosperm as a primitive character among dicotyledons. *Phytomorph.* 4: 275-278.

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1956 The phylogenetic classification of angiosperms. *Biol. Rev.* 31: 1-29.

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SPRAGUE, T. A.

1900 *Erythrina ovalifolia. Kew Bull.* [ ]: 198.

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1908 The prickly fruited species of *Euonymus. Kew Bull.* [ ]: 29-36.

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1919 *Dolichandrone* and *Markhamia. Kew Bull.* [ ]: 302-314.

4517

1923 Notes on *Theaceae. J. Bot. Lond.* 61: 82.

4518

SPRAGUE, T. A.—*contd.*

1927 *Atylosia* or *Cantharospermum*. *Kew Bull.* [ ]: 134.
4519

1928 The correct spelling of certain generic names. *Kew Bull.* [ ]: 113-115, 285-296, 337-365.
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1929 *Gardenia* and *Warnera*. *Kew Bull.* [ ]: 12.
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1933 *Abies pindrow* Royle. *Kew Bull.* [ ]: 44.
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1933 *Podostemaceae* or *Podostemonaceae*. *Kew Bull.* [ ]: 46.
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1933 The dates of publications of Royle's *Illustrations*. *Kew Bull.* [ ]: 378-390.
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1934 *Lilium*, *Notholirion* and *Fritillaria*. *Kew Bull.* [ ]: 94.
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1934 Pseudogeneric names. *Kew Bull.* [ ]: 222.
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1940 Additional nomina generica conservanda. (*Pteridophyta* and *Phanerogamae*). *Kew Bull.* 3: 81-134.
Alpinia Roxb., *Loranthus* L. and *Cananga* H.f. & T. are conserved genera against earlier names of *Languas* Koen., *Scurrula* L. and *Canangium* Baillon respectively.
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SPRAGUE, T. A. *and* FISCHER, C. E. C.

1934 The validation of new combinations by indirect citation of synonyms concerned. *Kew Bull.* [ ]: 137.
Combinations of *Apocopis*, *Batratherum*, *Chrysopogon*, *Cymbopogon*, *Ischaemum* and *Spodiopogon* are given.
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SPRAGUE, T. A. *and* GREEN, M. L.

1926 Alphabetical list of nomina rejicienda (Phanerogamae). *Kew Bull.* [ ]: 128-141.
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1937 *Epipogum* or *Epipogium*. *Kew Bull.* [ ]: 475-476.
Shows that the correct spelling should be *Epipogium*. They have also given a synonym.
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SPRAGUE, T. A. *and* HUBBARD, C. E.

1933 *Eragrostis major* and *E. minor*. *Kew Bull.* [ ]: 15-18.
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SPRAGUE, T. A. *and* MILNE-REDHEAD, E.

1939 The correct name for *Sesbania aculeata*. *Kew Bull.* 3: 159-162.
It is now called *Sesbania bispinosa* (Jacq.) Fawcett & Rendle.
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SPRAGUE, T. A. *and* SUMMER-HAYES, V. S.

1927 *Santalum*, *Eucarya* and *Mida*. *Kew Bull.* [ ]: 193.
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SPRATT, E. R.

1919 A comparative account of the root nodules of the *Leguminosae*. *Ann. bot. Lond.* 33: 189-199.
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SPRING, A. F.

1838 Beitrage zur Kenntnis der *Lycopodien*. *Flora*. 1: 145-191, 193-205, 209-212.
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1842-50 Monographie de la famille des *Lycopodiacees*. *Nouv. Mem. Acad. Brux.* 20: 1-110 (1842); 24: 1-358.
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SPRY, H. H.
1841 Cultivation of plants in India. Calcutta.
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SREENIVASAYYA, M.
1933 Pollarding in the control of Sandal spike. *Indian For.* 59: 263.
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1948 The spike disease of Sandal. *Curr. Sci.* 17(5): 141-145.
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SREENIVASAYYA, M. *and* RANGASWAMI, S.
1935 Field studies in the spike disease of Sandal (*Santalum album* L.): observations on the natural dissemination of spike. *Proc. Indian Acad. Sci.* B. 1: 142-154.
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1935 Insect transmission of spike disease of Sandal (*Santalum album* L.). *Curr. Sci.* 4(1): 17.
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SRINATH, K. V.
1934 Life history of *Herpestis monnieria*. *Curr. Sci.* 3: 257-258.
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1940 Morphological studies in the genera *Calceolaria* and *Herpestis*. *Proc. Linn. Soc. Lond.* 40(2): 151-174.
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1940 Morphological and cytological studies in the genus *Calceolaria;* meiosis in a triploid *Calceolaria*. *Ann. Bot. Lond.* (n.s.). 4(13): 81-106.
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1940 Morphological and cytological studies in the genus *Calceolaria*. *Cytologia*. 10(4): 467-491.
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1941 A probable case of translocation during mitosis involving the satellite thread. *Curr. Sci.* 11(2): 59.
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1941 Structure of the chromosome. *Curr. Sci.* 10(7): 333.
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SRINIVASACHAR, D.
1940 Embryological studies of some members of *Rhamnaceae*. *Proc. Indian Acad. Sci.* B. 11(2): 107-116.
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1940 Morphological studies in the family *Anacardiaceae*. *J. Mysore Univ.* B. 1(8).
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1942 A contribution to the embryology of the genus *Polygala*. *Proc. nat. Acad. Sci. India.* B. 12(1): 1-6.
Deals with 3 species of the genus *Polygala*, namely, *P. chinensis*, *P. arillata* and *P. sibirica*.
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SRINIVASA IYENGAR, S.
1937 Life history of *Santalum album* L. *J. Indian bot. Soc.* 16(4): 173-195.
4551

SRINIVASALU, N. *and* KRISHNASWAMI, P.
1956 Variations in the leaflets of groundnut, *Arachis hypogaea* L. *Madras agric. J.* 43(1): 36-38.
Normally 4 leaflets, but 3 or 5 leaflets have been found on young plant.
4552

SRINIVASAN, A.
1935 Investigations on the role of Silicon in plant nutrition; on the nature of interaction between soil and soluble silicates. *Proc. Indian Acad. Sci.* B. 1(10): 607-632.
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SRINIVASAN, A.—*contd.*

1935 Investigations on the role of Silicon in plant nutrition; absorption of Silica in soluble forms by Collodial oxides of iron and aluminium. *Proc. Indian Acad. Sci.* B. 2(2): 201-212.

4554

SRINIVASAN, A. R.

1941 Cytological studies in *Nicotiana*. 72 p.
Thesis accepted for the M.Sc. Degree of Annamalai University.

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1941 Cytomorphological features of *Limnanthemum cristatum* Griseb and *Enicostema littorale* Blume. *Proc. Indian Acad. Sci.* B. 14(6): 529-542.
Development of the micro and macro gametophytes and the embryo in *Enicostema littorale* Bl. is described. An account of the floral ontogeny in *Limnanthemum cristatum* is given. The chromosome numbers of these two species have been determined for the first time, which are commonly 18 (diploid).

4556

1942 Contribution to the morphology of *Pedalium murex* Linn. and *Sesamum indicum* Dc. *Proc. Indian Acad. Sci.* B. 16(5): 155-164.
A detailed description of the morphological features of *Pedalium* is given; a comparative study of the haustorium formation in the two genera *Pedalium* and *Sesamum* is also made. The diploid chromosome numbers of *Pedalium murex* and *Martynia diandra* have been found for the first time to be 16 and 32 respectively.

4557

1947 Morphological and cytological studies in *Scrophulariaceae; Striga euphrasioides* Bth. *Proc. Indian Acad. Sci.* B. 24(1): 21-33.
Deals mainly with the development of endosperm in *Striga euphrasioides* Bth. and some details of megasporogenesis and embryo development. Though reported and described as a parasitic plant, the parasitic relationship of this plant with any of the grasses growing nearly has not been traced despite careful efforts.

4558

1947 Some new hosts for *Striga*. (Letter). *Curr. Sci.* 16(10): 320-321.
Setaria italica, the Italian millet, is the new host. The parasite is *Striga densiflora*. *Striga lutea* was found on *Tragus racemosus*.

4559

1949 Vegetation on monuments. *Ancient India*. [ ]: 106-113.

4560

SRINIVASAN, K. S.

1939 On an ascomycetous fungus attacking *Riccia himalayensis* St. *Trans. Brit. mycol. Soc.* 23: 55-62.

4561

1939 On the developmental morphology of androgynous receptacles in *Marchantia palmata* Nees. *Proc. Indian Acad. Sci.* B. 10(1): 88-97.
Marchantia palmata Nees collected at Ootacamund, Nilgiris, is the subject of study. A consideration of these intermediate structures suggests

that antheridia and archegonia are homologous structures.

4562

1940 On the morphology, life-history and cytology of *Riccia himalayensis* St. *J. Madras Univ.* B. 12: 59-80.

4563

1944 The developmental morphology and cytology of *Marchantia palmata* Nees. *J. Madras Univ.* B. 15: 101.
This species was collected from Ootacamund on the Nilgiris. A detailed account of the morphology and cytology is given. The details of mitotic and meiotic divisions have been recorded. The haploid number of chromosome is 9.

4564

1945 On some peculiar spores in *Dumortiera hirsuta* Reinw. Bl. et Nees. *Curr. Sci.* 14(2): 40.
Records the presence of five spores attached end to end in a row among the normal spore tetrads.

4565

1946 Ecology and seasonal succession of marine algae at Mahabalipuram Seven Pagodas, near Madras. *J. Indian bot. Soc.* 25: 267-278.

4566

SRINIVASAN, R. *and* CHACKO, P. I.

1954 The control of aquatic vegetation with 2, 4-D. *J. Bombay nat. Hist. Soc.* 51(1): 164-169.

4567

SRINIVASAN, R. S.

1954 On a rare and little known alga (*Tydemania expeditionis* Weber V. Bosse) new to Noncowry. *Phytomorph.* 4(1 & 2): 247-255.

4568

SRINIVASAN, V. K.

1940 Morphological and cytological studies in the *Scrophulariaceae;* floral morphology and embryology of *Angelonia grandiflora* C. Morr. and related genera. *J. Indian bot. Soc.* 19: 197-222.

4569

1952 Chromosome numbers in the genus *Zizyphus.* (Letter). *Curr. Sci.* 21(8): 224-225.
Chromosome numbers for *Z. rotundifolia, Z. oenoplia, Z. mauritiana* Lamk. and *Z. jujuba* have been determined and recorded. They range from 24 to 48.

4570

SRINIVASA RAO, H.

1936 Germination of the seeds of *Carica papaya* inside the fruit. *Curr. Sci.* 5: 81-83.

4571

SRINIVASA RAO, M. R.

1944 Algal structures from the Cuddapah limestones (Precambrian), S. India. *Curr. Sci.* 13(3): 75.

4572

SRIPADA RAO, K.

1942 Recent discoveries of fossil algae in India. Special Public lectures on Research. *J. Mysore Univ.* [ ]: 58-70.
Brief accounts of all the fossil genera of the *Dasycladaceae,* the *Corallinaceae* and the *Charophyta.*

4573

1943 Fossil algae from Assam: the *Corallinaceae. Proc. nat. Acad. Sci. India.* 13(5): 265-299.
A study of some limestones of doubtful age has revealed the presence of a rich and well

SRIPADA RAO, K.—*contd.*

preserved algal flora of considerable interest and importance. The *Corallinaceae* is described.

4574

1955 Angiospermous plant fossils from the Lameta limestone of Madya Pradesh. *Curr. Sci.* 24(2): 48-49.

Lameta limestones are rarely fossiliferous. But those lying below the Deccan traps, near Nayagoan in Chindwara District, are found to contain well-preserved fossil flora of dicotyledonous leaves and wood.

4575

SRIPADA RAO, K. *and* NARAYANA RAO, S. R.

1939 Fossil *Charophyta* from the Intertrappean beds near Rajahmundry (India). *Mem. geol. Surv. India.* (n.s.). 29: 1-14.

4576

SRIVASTAVA, B. P.

1935 On some silicified plant remains from the Rajmahal series of India. (Abstr.). *Proc. 22nd Indian Sci. Cong.* iii: 285.

4577

1937 Studies on some silicified plant remains from the Rajmahal series. (Abstr.). *Proc. 24th Indian Sci. Cong.* iii: 273-274.

4578

1945 Silicified plant remains from the Rajmahal series of India. *Proc. nat. Acad. Sci. India.* 15(6): 190-210.

4579

SRIVASTAVA, G. D.

1935 Two new host plants of *Loranthus* at Allahabad. *Curr. Sci.* 4: 106-107.

4580

1938 Flora of Allahabad; pt. 1—*Ranunculaceae* to *Cornaceae*. *Allahabad Univ. Stud.* 14(2): 87-133.

4581

1938 Flora of Allahabad; pt. 2—*Rubiaceae* to *Cyperaceae*. *Allahabad Univ. Stud.* [ ]: 51-127.

Flowering plants, excepting grasses, found growing wild or cultivated in fields or grown as ornamental plants in gardens, in and around Allahabad are given with short descriptions of the genera and species.

4582

1939 Contribution to morphology of *Orobunche aegyptiaca* Pers. *Proc. nat. Acad. Sci. India.* 9: 58-68.

4583

SRIVASTAVA, G. P. *and* SANTAPAU, H.

1954 *Alternanthera polygonoides* R. Br. var. *erecta* Mard., a new record for Bombay State. *J. Bombay nat. Hist. Soc.* 52.

4584

1955 *Gomphrena globosa* L.; common irregularity in the leaf. *Bull. bot. Soc. Bengal.* 9: 170.

4585

SRIVASTAVA, G. S.

1955 An abnormal condition of fruiting in banana. *J. Bombay nat. Hist. Soc.* 53(1): 155-156.

4586

1957 Abnormal growth in the fruits of *Abelmoschus moschatus* Medik. *Sci. & Cult.* 23(1): 44-45.

The abnormality consists of the presence in mature fruits of a stalked ovary terminal by a style and stigma.

4587

SRIVASTAVA, J. G.

1951 In aerial roots of *Vitis quadrangularis* Wall. *Curr. Sci.* 20.

4588

1951 On a new type of anamalous secondary growth found in the stem of *Vitis quadrangularis* Wall. (Letter). *Curr. Sci.* 20(5): 133.

4589

1954 Some recently introduced or newly recorded plants from Patna District and its neighbourhood. *J. Bombay nat. Hist. Soc.* 52(3): 659-660.

4590

1954 E. G. Woodhouse—his contribution to our knowledge of the flora of Bihar. *J. Bombay nat. Hist. Soc.* 52(3): 663-665.
Woodhouse was the Director of Agriculture, Bengal, and later of Bihar and Orissa. He collected and formed a herbarium of Bihar plants in the Agricultural College of Bihar.

4591

1955 A botanical tour to Parasnath Hill, Bihar. *J. Indian bot. Soc.* 34(1): 196-206.

4592

1955 A note on the flora of Mirzapur (U.P.) *J. Bombay nat. Hist. Soc.* 53(1): 152-153.

4593

1955 Vegetation of Purnea. *District Gazeteer of Purnea.*

4594

1956 On the recent introductions on the flora of Purnea (Bihar). *J. Indian bot. Soc.* 35(3): 308-332.
A floristic survey of the Purnea District, spread over 7 years, 1948-55, has yielded 644 species, half of which are additions to Haines *Botany of Behar and Orissa—1924-25.* 300 are new introductions from other states. Discusses the causes and agencies of such introductions. A complete list of plants collected from the district is given in Appendix 1, p. 316-321. In Appendix 2, an analysis of the Purnea flora is given.

4595

1956 The vegetation of the Patna District (Bihar). *J. Indian bot. Soc.* 35(4): 391-401.

4596

SRIVASTAVA, L. M. *and* WILLIAMSON, D.

1958 Germination of seeds inside the fruits. *Sci. & Cult.* 23(8): 428.
This abnormality has been reported in the fruit of *Cucurbita maxima.*

4597

SRIVASTAVA, P. N.

1952 A new record of an Equisetalian cone from Raniganj coal field, India. (Letter). *Curr. Sci.* 21(4): 98.

4598

1954 On some lower Gondwana megaspores and seeds from Mangardah coal, West Bokaro, Behar. *Palaeobotanist.* 3: 113-115.

4599

1954 Studies in the *Glossopteris* flora of India; some new fossil plants from the lower Gondwanas of the Raniganj coal field, India. *Palaeobotanist.* 3: 70-78.

4600

1955 An appreciation of late P. N. Srivastava, by Savitri Sahni. *Palaeobotanist.* 4: 1-2.

4601

SRIVASTAVA, R. C. *and* SHARMA, S. L.

1955 Chemical control of *Croton sparsiflorus* Mor. *Proc. Indian Acad. Sci.* B. 42(3): 123-127.
4602

SRIVASTAVA, RAMESH KUMAR

1952 Abnormal leaves of *Cycas revoluta* Thunb. (Letter). *Curr. Sci.* 21(5): 140-141.
Occurrence of a subsidiary rachis and subsidiary leaflets in a cultivated female specimen of *Cycas revoluta* is recorded.
4603

STAMP, L. D.

1923 The ecology of part of the riverine tract of Burma. *J. Ecol.* 11: 129-159.
4604

STAMP, L. D. *and* LORD, L.

1923 The ecology of the dry belt of Burma. *J. Ecol.* 11.
4605

STANSFIELD, H.

1953 The Roylean Herbarium. *Pharm. J.* [ ]: 74-79.
4606

1954 Plant collections in the Himalayas. *Liverp. Bull.* 3(3): 5-38.
4607

STANT, MARGARET Y.

1952 Anatomical evidence for including *Nyctanthes* and *Dimetra* in the *Verbenaceae*. *Kew Bull.* 2: 273-277.
4608

STAPF, O.

1889 Die arten der Gattung *Ephedra*. *Denkschr. Akad. Wiss. Wien.* 56: 1-112.
4609

1892 On the *Sonerileae* of Asia. *Ann. Bot. Lond.* 6: 291-323.
4610

1895 *Pedaliaceae*. *Pflanzenfam.* 4: 253-265.
4611

1896 *Catabrosa*, *Eragrostis*, *Poa*, *Festuca* and *Bromus*. *Hks. Fl. Brit. India.* 7: 310-327, 337-346, 348-362.
4612

1904 On the fruit of *Melocanna bambusoides* Trin., an endospermless viviparous genus of *Bambuseae*. *Trans. bot. Soc. Edinb.* 6: 401-405.
4613

1905 The Aconites of India: a monograph. *Ann. R. bot. Gdn. Calcutta.* 10: 115-197.
4614

1906 The oil grasses of India and Ceylon. *Kew Bull.* [ ]: 296-364.
Species of *Cymbopogon*, *Vetiveria* and *Andropogon* are described.
4615

1906 *Gentiana hugelii* Griseb. redescribed. *J. Asiat. Soc. Bengal.* (n.s.). 2: 337.
4616

1908 *Arthraxon meeboldii* Stapf, *Mussaenda treulleri* Stapf. *Kew Bull.* [ ]: 449.
4617

1908 *Pyrus pashia* var. *kumaonii* Stapf. *Curtis's bot. Mag.* 53.
4618

1909 The history of the wheats. *Rept. Brit. Ass.* [ ]: 798-807; *J. Bd. Agric.* 17 (Suppl. 4): 71-83 (1910).
4619

1920 *Setaria* or *Chaetochloa*? *Kew Bull.* [ ]: 124-127.
4620

1928 *Setaria glauca* and *Setaria lutescens*. *Kew Bull.* [ ]: 147-149.
4621

1928 The nomenclature of *Bromus*. *Kew Bull.* [ ]: 209-211.
4622

1928 *Martyniaceae. Kew Bull.* [ ]: 265-269.

4623

1929-31 Iconum botanicarum index Londinensis; containing illustrations of flowering plants, ferns and fern allies, being an amended and enlarged edition, contained up to the end of the year 1920 of Pritzel's 'Alphabetical register of representations of flowering plants and ferns compiled from botanical and horticultural publications of the 18th and 19th centuries'. Oxford, Clarendon Press. 6v.
Contains alphabetical list of names of all illustrations of the flowering plants, ferns and fern allies of the world with their original references.

4624

1933 Obituary notice on. *Kew Bull.* [ ]: 36.

4625

STAPF, O. *and* HUBBARD, C. E.
1929 A new genus of grasses, *Helcolemma*: *H. canaliculatum*. *Kew Bull.*

4626

STAPF, O. *and* KING, G.
1900 *Sonerila*. *King's Materials for a Flora of the Malayan Peninsula*. 2: 426-452.

4627

STAUB MORICZ
1905 Die Geschichte des Genus *Cinnamomum*. Budapest. 4 p.l., 138 p.

4628

STEARN, WILLIAM T.
1943 Royle's illustrations of the botany of the Himalayan mountains. *J. Arnold. Arbor* 24: 484-487.
The author has clarified the confusion regarding the dates of publications of Royle's work, which appeared in parts on various dates.

4629

STEBBING, E. P.
1901 A note on the forests of Arrakan. *Indian For.* 27: 67, 182, 235.

4630

1905 On the Cecidomyid (*Cecidomyia* sp.), forming the galls of pseudocones on *Pinus longifolia*. *Indian For.* 31: 429.

4631

1906 Notes on the Chilgeza forests of Zhob and the Takti Suliman (Baluchistan). *Indian For.* 32.

4632

1909 The *Loranthus* parasite of the morn and ban oaks, *Quercus dilatata* and *Q. incana* Roxb. *J. Asiat. Soc. Bengal.* (n.s.). 5: 189.

4633

1909 The forests of India. London. 3v.

4634

STEBBINS, G. LEYDYARD
1937 Critical notes on the genus *Ixora*. *J. Bot. Lond.* 74: 43-51.

4635

1939 Notes on some Indian species of *Lactuca*. *Indian For.* 1(6): 237-245.
L. filicina Duthie, with several new name combinations discussed.

4636

STEEL, J. N. *and* SYMONDS, T. J.
1889 Materia medica veterinaria Indica. Madras, Printed at the Lawrence Asylum press. xiii, 78 p.
Reprinted from the *Quarterly Journal of Veterinary Science in India*.

4637

STEEN, B.

1850 Remarks on the flora of the Nicobar Island; tr. from Dutch by N. Wallich. *Hk. J. Bot.* 20: 1.

4638

STEENIS, C. Y. G. J. VAN

1927 Malayan *Bignoniaceae;* their taxonomy, origin and geographical distribution. *Rec. Trav. bot. neerl.* 24: 787-1049.

4639

1932 The *Styracaceae* of Netherlands India. *Bull. Jard. bot. Buitenz.* 12: 212.

4640

1934 The identity of *Polypodium ovatum* Burm. f. *Bull. Jard. bot. Buitenz.* (S. 1.). 13: 288.

4641

1934-36 Origins of the Malaysian mountain flora. *Bull. Jard. bot. Buitenz.* (S. 3.). 13: 133-262, 289-417; 14: 56-72.

4642

STEIN, AUREL

1931 On the *Ephedra,* the Hum plant and the Soma. *Bull. Sch. orient. Stud. Lond. Univ.* 2: 501-514.

The author was once connected with the Archaeological Department of India and has discussed, at length, the unsolved identity of the Vedic Soma plant. He has suggested on circumstantial as well as on similarities of characters with those attributed to the Soma plant in the passages of *Rig Veda,* that the wild Rhubarb which occurs in plenty in the supposed original home of the Aryans in central Asia beyond Afghanistan may be the real Soma plant.

4643

STENAR, HELGE

1928 Zur Embryologie der Asphodeline Gruppe. *Svensk bot. Tidskr.* 22: 145.

4644

STEPHANI, F.

1901-08 Species hepaticarum. *Bull. Herb. Boiss. Geneve.* 1: 140, 477, 1022, 1121; 2: 37, 157, 454, 657, 857; 3: 102, 326, 522, 596, 873, 958; 4: 18, 153, 345, 586, 775, 973, 1197; 6: 381, 947-948, 952; 7: 694-696, 837-845; 8: 212, 428, 480, 578, 662, 941.

4645

1901-25 Species hepaticarum. 6v. V. 1-3 appeared in *Bull. Herb. Boiss. Geneve.* Many Indian hepatics are described.

4646

STEPHENS, E. L.

1910 The development of the seed coat of *Carica papaya* L. *Ann. Bot. Lond.* 24: 607-610.

4647

STERLING, ANDREW

1846 Orissa: its geography, statistics, history, religion and antiquities. London, John Snow. viii, 416 p.

4648

STERLING, CLARENCE

1955 Nucleus and endosperm in the seed of Lima bean (*Phaseolus lunatus* L.). *Bull. Torrey bot. Cl.* 82(1): 39-49.

4649

STERNDALE, R. A.

1877 Seonee; or, Camp life on the Satpura range. Calcutta, Sampson Low. x, 455 p. Subsequent edition published in 1887.

4650

1886 On the uses of *Pandanus* or Screw pine. *J. Bombay nat. Hist. Soc.* 1: 62.

4651

STEUDEL, E. G.

1821 Nomenclator botanicus, enumerans ordine alphabetico nomina atque synonyma tum generica tum specifica et a Linnaeo et recentioribus de re botanica scriptoribus plantis phanerogamis imposita. Stuttgart. xviii, 458 p.
Second edition published in 1841 in 2 volumes.
This is the earliest work of reference, wherein all the plant names published from the earliest times are recorded together with their references and synonyms.
4652

1855 Synopsis plantarum glumacearum. Stuttgart, J. B. Metzler. 2v.
Contents: V. 1—*Gramineae;* V. 2—*Cyperaceae.*
4653

STEVEN, C.

1822 Monographie *Pedicularis. Mem. Soc. Amis. Sci. nat. Moscou.* 6: 1-60.
4654

STEVENS, R.

1905 The effects of the great frosts of northern India chiefly on the forests of the Dum. *Indian For.* 31: 435.
4655

STEVENSON, J.

1833 Notice of analysis of the ashes of four Indian plants. *J. Asiat. Soc. Bengal.* 2: 23.
4656

STEVENSON, J. R.

1930 The species of *Rhododendron.* viii, 861 p.
Systematic handbook containing descriptions, keys, etc.
4657

STEWARD, A. N.

1930 The *Polygonaceae* of eastern Asia. *Contr. Gray Herb. Harv.* 88: 1-129.
4658

STEWART, J. J.

1942 A monograph of the genus *Protium* and some allied genera (*Burseraceae*). *Med. bot. Mus. Rijks Univ. Utrecht.* 89; *Rec. Trav. bot. neerl.* [ ]: 139-446.
4659

STEWART, J. L.

1860 Sketch of the flora of the country passed through by the expeditionary force under Brig. Gen. Chamberlin. 16 p.
4660

1863 Memorandum on the Peshawar valley, chiefly regarding its flora. *J. Asiat. Soc. Bengal.* 32: 219-266.
4661

1865 The sub Siwalik tract with special reference to the Bijnour forests and its trees and an account of their useful products. *J. agri-hort. Soc. India.* 13: 265.
4662

1866 Journal of a botanising tour in the Hazara and Khagan in April and May 1859. *J. agri-hort. Soc. India.* 14: 1-75.
4663

1867 Tour in the Punjab Salt range. *J. agri-hort. Soc. India.*
4664

1868 Forests and fuel plantations of the Punjab. Lahore, Printed at the Govt. Press. iv, 159 p.
4665

STEWART, J. L.—*contd.*

1869 Punjab plants, comprising botanical and vernacular names and uses of most of the trees, shrubs and herbs of economical value growing within the province, included as a handbook for officers and residents in the Punjab. Lahore, Printed at the Govt. Press. xiv, 269, 106 p.
4666

1870 Notes on a botanical tour in Ladak and western Tibet. *Trans. bot. Soc. Edinb.* 10: 207-239.
4667

STEWART, J. L. *and* BRANDIS, D.

1874 Forest flora of north-west and central India; a handbook of the indigenous trees and shrubs of those countries, commenced by the late J. L. Stewart and continued and completed by D. Brandis. London, Allen & Co. xxxi, 608 p.
4668

STEWART, R. R.

1916-17 Flora of Ladak and western Tibet. *Bull. Torrey bot. Cl.* 43: 571-590, 626-650.
4669

1917 Pteridophyta, the flora of Ladak, western Tibet. *Bull. Torrey bot. Cl.* 43: 625-626.
4670

1938 The ferns of Mussoorie and Dehra Dun. *150th Annv. Vol. Ann. R. Bot. Gdn. Calcutta.* 2: 159-172
Gives a systematic account of ferns and fern allies of Mussoorie and Dehra Dun found growing between 2,200-7,500 ft. 112 species have been enumerated. They were collected during the summer, beginning from 1930. Christensen's nomenclature has been followed.
4671

1944 The ferns of Gilgit, Baltistan and Ladak. *Bull. Torrey bot. Cl.* 71(6): 660-662.
4672

1945 The ferns of Kashmir. *Bull. Torrey bot. Cl.* 72(4): 399-426.
4673

1945 The grasses of north-west India. *Brittonia.* 5(4): 404-468.
4674

1951 The ferns of Pahlgam, Kashmir. *J. Indian bot. Soc.* 30: 137-142.
4675

STIBAL, E.

1935 Revision der Gruppe der *Salvia japonica* Thunb. *Acta Hort. Gothoburg.* 10: 55-69.
4676

1936 Revision der indischen und tibetanischen Arten der Gattung *Salvia* L. *Repert nov. spec. Regn. veg.* 39: 173-186. *Salvia wardii* and *S. sikkimensis* are new species.
4677

STIEFELHANGEN, H.

1910 Systematische und pflanzengeographische Studien zur Kenntnis der Gattung *Scrophularia. Bot. Jb.* 44(4): 409-496.
4678

STOCKMAN, RALPH

1931 The poisonous principle of *Lathyrus* and some other leguminous seeds. *J. Hyg. Camb.* 31(4): 550-562.
4679

STOCKS, J. E.

1846 Notes on the botany of Scinde. *Ann. Mag. nat. Hist.* 17: 419. 4680

1847 On two Balsam (*Balsamodendron*) trees from Scinde. *Hk. J. Bot.* 1: 257; *J. Bombay Br. R. Asiat. Soc.* 2: 390. 4681

1847 Remarks on some points in the structure of the *Cucurbitaceae*. *Ann. Mag. nat. Hist.* 18: 110-113. 4682

1848 On the economic botany of Scinde. *J. Bot. Lond.* 7: 539. 4683

1848 Notes written during a short botanical excursion to Bilawal (Scinde). *J. Bot. Lond.* 7: 550-557. 4684

1850 Journey into Baluchistan. *Hk. J. Bot.* 2: 303. 4685

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4722

1952 Studies on south Indian *Fusaria; Fusarium vasinfectum* Atk. with a note on its varieties and forms. *Proc. nat. Inst. Sci. India*. B. 18: 273-285.

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1952 Studies on south Indian *Fusaria; Fusaria* isolated from black cotton soils. *Proc. nat. Inst. Sci. India*. B. 18: 557-584.

An account of the *Fusaria* isolated from black cotton soils collected from Udumalpet, Coimbatore District. The soils were collected from areas known to be severely infected with the cotton wilt *Fusarium*, viz. *F. vasinfectum* Atk. for years. 16 species of *Fusaria* have been isolated and described.

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1953 Fungi Imperfecti from Madras. *Proc. Indian Acad. Sci.* B. 37: 96-105; 38: 27-39.

A new genus and species is described in the first part and the genus *Curvularia* in the second part.

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1953 *Koorchaloma*, a new genus of the *Tuberculariaceae*. *J. Indian bot. Soc.* 32(3): 123-126.

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1954 Studies on south Indian *Fusaria; Fusaria* isolated from some crop plants. *J. Madras Univ.* B. 24(1): 21-46.

A systematic account of *Fusaria* isolated from some crop plants.

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SUBRAHMANYAM, C. V.—*contd.*

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1956 On *Spicularia terrestris* Timonin. *Proc. Indian Acad. Sci.* B. 43(6): 276-278.
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The author has created a new genus which is called *Phaeotrichoconis* gen. nov. and the new combination is *P. crotalariae* (Salam & Rao) Subramanian nov. comb.
4737

1956 *Microtypha*. *Proc. Indian Acad. Sci.* B. 44(2): 122-124.
Study of the type specimen of this genus has shown that it is congeneric with *Arthrinium caricicola* Kunze ex Fries and it is reduced to as a synonym. A new name has been given to Spegazzines fungus as *Arthrinium spegazzinii* Subramanian.
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1957 Additions to the genus *Hansfordiella*. *Proc. Indian Acad. Sci.* B. 45(6): 282-287.
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1957 *Hyphomycetes;* two new genera *Dwayaloma* and *Sadasivania* (*Dwayaloma trina* Subramanian and *Sadasivania girisa* gen. and sp. nov.). *J. Indian bot. Soc.* 36(1): 61-67.
These fungi were collected from the Nilgiris, Madras

SUBRAHMANYAM, C. V.—*contd.*

State. The generic and specific names are derived from Sanskrit.

4740

1957 *Hyphomycetes. Proc. Indian Acad. Sci.* B. 46(5): 324-335.
Five new species of *Hyphomycetes* collected from the Nilgiris are described.

4741

1958 *Hyphomycetes. J. Indian bot. Soc.* 37(1): 47-64.
A new genus *Bahusakala* is made with *Septonema olivaceo-nigrum* Berk. & Br. as the type.

4742

1958 Taxonomy of fungi. *Mem. Indian Bot. Soc.* 1: 43-51.

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SUBRAHMANYAM, C. V. *and* RAMAKRISHNAN, K.

1953 *Rostrospora,* a new genus of the *Maelanconiales. J. Madras Univ.* B. 22: 66-68.

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1953 *Petrakomyces,* a new genus of the *Sphaeropsidales. Proc. Indian Acad. Sci.* B. 37: 110-113.

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1953 On the nature of the spore appendage in *Neottiospora* Desm. *Proc. Indian Acad. Sci.* B. 37: 228-231.

4746

1953 *Plagionema,* a new genus of the *Sphaeropsidales. J. Indian bot. Soc.* 32(3): 131-136.
Describes *P. indica* sp. nov.

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1954 *Alpakesa* gen. nov., a new genus of *Sphaeropsidales. J. Indian bot. Soc.* 33: 203-205.

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1956 *Anthasthoopa,* a new genus of the *Sphaeropsidales. Proc. Indian Acad. Sci.* 43(3): 172-174.
Describes *A. simba* sp. nov.

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1956 List of Indian fungi—1952-1956 *J. Madras Univ.* B. 26(2): 327-421.
" . . . All the new fungi discovered in India during the years 1952-1956 have been given with full references to the original journal in which the fungi were described and the hosts and places where the various items were discovered. It enumerates not less than 765 new species or genera or new records."—H. Santapau, *J. Bomb. nat. Hist. Soc.* 54(2): 446-447.

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1956 On the genus *Amphichaeta* McAlpine. *J. Indian bot. Soc.* 35(2): 226-232.
The authors have relegated *Amphichaeta* McAlpine to the role of synonym under an earlier congeneric genus *Cryptostictis* Fuckel (1869). Recombined a number of species under *Cryptostictis.*

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1956 *Ciliochorella* Sydow, *Plagionema* Subram. & Ramakr. and *Shanoria* gen. nov. *Trans. Brit. mycol. Soc.* 39: 314-318.

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1956 On *Neottiospora coprophila* Speg. *Proc. Indian Acad. Sci.* B. 43(3): 175-177.

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SUBRAHMANYAM, C. V. *and* RAMAKRISHNAN, K.—*contd.*

1957 *Neottiospora* Desm. and two new genera *Samukuta* and *Sakireeta*. *J. Indian bot Soc.* 36(1): 68-86.
This paper is a contribution to the taxonomy of *Neottiospora* Desm.
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SUBRAHMANYAM, D.

1958 Role of Toxins in vascular wilts. *Mem. Indian bot. Soc.* 1(2): 87-90.
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SUBRAHMANYAM, K.

Embryological studies in certain families of *Campanulaceae* and *Melastomaceae*.
Thesis for the Degree of D.Sc. of the Mysore University.
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1942 Gametogenesis and embryogeny in a few members of the *Melastomaceae*. *J. Indian bot. Soc.* 21(1 & 2): 69-85.
The species dealt with are *Zeandra cordifolia* Cogn., exotic growing in India; *Osbeckia cupularis* Don; *O. wightiana* Bth.; *O. hispidissima* Wt. and *Memecylon heyneanum* Bth.
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1944 A contribution to the life history of *Sonerila wallichii* Benn. *Proc. Indian Acad. Sci.* B. 19(4): 115-120.
An account of the life history of *Sonerila wallichii* with reference to microsporogenesis, megasporogenesis and embryogeny. The chromosome number has been found to be 8 in pollen mother cells.
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1946 Further contribution to the embryology of the genus *Osbeckia* Linn . *J. Mysore Univ.* B. 7(1).
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1947 A case of polyembryony in *Wahlenbergia gracilis* Schrad. *Curr. Sci.* 16: 350.
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1948 An embryological study of *Melastoma malabathricum* L. *J. Indian bot. Soc.* 27(1): 11-19.
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1948 A contribution to the embryology of *Wahlenbergia gracilis* Schrad. *Proc. nat. Inst. Sci. India.* B. 14(8): 359-366.
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1949 On the nectary in the stamens of *Memecylon heyneanum* Bth. *Curr. Sci.* 18: 415-416.
4764

1949 The development of the male and female gametophyte in *Lilium neilgherrense* Wt. *J. Indian bot. Soc.* 28(1): 36-41.
4765

1949 Foliar scleroids in some species of *Memecylon*. *Proc. Indian Acad. Sci.* B. 30(5): 291-298.
The different types of scleroids are described in detail. The probable importance in building up a key for species of *Memecylon* on the basis of vegetative structure is pointed out.
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1949 An embryological study of *Lobelia pyramidalis* Wall., with special reference to the mechanism of nutrition of the embryo in the family *Lobelia-*

ceae. New Phytol. 48(3): 365-373.

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1949 On the nectary in the stamens of *Memecylon heyneanum* Bth. (Letter). *Curr. Sci.* 18(11): 415-416.

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1950 A contribution to the systematic position of the *Sphenocleaceae. Proc. Indian Acad. Sci.* B. 28(1): 60-65.

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1950 An embryological study of *Levenhookia dubia* Sond. in Lehm. *Proc. nat. Inst. Sci. India.* B. 16(4): 245-253. This is an Australian species of the *Stylidiaceae.*

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1950 Development of the embryosac and endosperm in *Stylidium tenellum* Swartz. *Curr. Sci.* 19: 294.

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1950 A contribution to our knowledge of the systematic position of the *Sphenocleaceae. Proc. Indian Acad. Sci.* B. 31(1): 1-6.

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1950 Anthesis in *Cajanus indicus* Spr. (Letter). *Curr. Sci.* 19(7): 215.

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1950 Some phenological notes on *Dillenia indica* L. *J. Bombay nat. Hist. Soc.* 49: 574-575.

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1951 Embryology of *Oxyspora paniculata. Phytomorph.* 1: 205-212.

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1951 Flower structure and seed development in *Isotoma fluviatilis* F. Muell. *Proc. nat. Inst. Sci. India.* 17(4): 275-285.

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1951 Origin and nature of haustoria in *Lobelia cardinalis. Bot. Gaz.* 112(3): 319-322.

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1951 Studies on the relationship of the *Melastomaceae. J. Mysore Univ.* B. 12(1): 1-4.

4778

1951 Inter-relationships of *Campanulaceae. J. Mysore Univ.* B. 12: 5-13.

4779

1951 A morphological study of *Stylidium graminifolium. Lloydia.* 14(2): 65-81.

4780

1951 On the probable origin of the unilocular ovary of the *Compositeae* from the *Stylidiaceae. Proc. Indian Acad. Sci.* B. 33(6): 327-330.

4781

1953 The nutritional mechanism of embryosac and embryo in the families *Campanulaceae, Lobeliaceae,* and *Stylidiaceae. J. Mysore Univ.* B. 13(1): 1-4.

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SUBRAHMANYAM, K. *and* GOVINDU, H. C.

1948 The development of the female gametophyte in *Oenothera odorata* Jacq. *J. Indian bot. Soc.* 27(1).

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SUBRAHMANYAM, K. *and* NAGARAJA RAO, A.

1952 A contribution to the embryology of *Chlorophytum attenuatum* Baker. *Proc. Indian Acad. Sci.* B. 36(5): 191-197.

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SUBRAHMANYAM, K. *and*
RAJU, M. V. S.

1952 Circumscissile dehiscence in *Sphenoclea zeylanica* Gaertn. (Letter). *Curr. Sci.* 21(5): 139-140.
Anatomy of the circumscissile dehiscence is described. It is stated to be similar to that in *Hyoscyamus niger*.
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1953 Circumscissile dehiscence in some angiosperms. *Amer. J. Bot.* 40(8): 571-574.
4786

SUBRAHMANYAM, K. *and*
RAZI, B. A.

1949 Tubers in a species of *Anthoceros*. (Letter). *Curr. Sci.* 18(5): 178-179.
Anthoceros species collected in the Bababudan Hills, Mysore, showed numerous tuberous bodies on the under surface of the thallus.
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SUBRAHMANYAM, M. K.

1952 On the identification of the various structures in the yeast cell. *J. Indian Inst. Sci.* 34: 11-23.
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SUBRAHMANYAM, M. K. *and*
KRISHNAMURTHI, S. K.

1950 Effect of Acenophthene on yeast strains of different genic and chromosomal constitutions. *Proc. Indian Acad. Sci.* B. 30: 185-194.
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SUBRAHMANYAM, R.

1945 On the cell division and mitosis in some south Indian diatoms. *Proc. Indian Acad. Sci.* B. 22(6): 331-354.
Nuclear and cell divisions were followed in detail in five diatoms, three from the Centrales and two from the Pennales.
4790

1945 On the formation of auxospores in *Bacteriastrum*. *Curr. Sci.* 14: 154-155.
4791

1946 On the occurrence of microspores in some centric diatoms of the Madras coast. *J. Indian bot. Soc.* 25(2): 61-66.
4792

1945 On somatic division, reduction division, auxospore formation and sex differentiation in *Navicula halophila* (Grun.) Cleve. (Letter). *Curr. Sci.* 14(3): 75-77; *J. Indian bot. Soc.* 25: 239-266 (1946).
The life history of the diatom has been studied with the help of laboratory culture.
4793

1947 A systematic account of the marine plankton diatoms of the Madras coast. *Proc. Indian Acad. Sci.* B. 24(4): 85-197.
The living material was examined as far as possible soon after collections. 171 forms, belonging to 15 families, 64 genera, 134 species (9 new species), 17 varieties (4 new varieties) and 7 forms are recorded with descriptions. Many of these appear cosmopolitan, having been recorded before from Europe and Java Sea.
4794

1956 Observations on the anatomy, cytology, development of the reproductive structures, fertilization and embryology of *Pelvetia canaliculata* Dcne. et Thur.; anatomy of the thallus and somatic mitosis. *J. Indian bot. Soc.* 35(4): 374-390.
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1957 Observations on the anatomy, cytology, development of the reproductive structures, fertilization and embryology of *Pelvetia canaliculata* Dcne. et Thur.; development of the conceptacles reproductive structures and meiotic division of the nucleus during gametogenesis. *J. Indian bot. Soc.* 36(1): 12-34.
4796

1958 Ecological studies on the marine phytoplankton on the west .coast of India. *Mem. Indian bot. Soc.* 1(3): 145-151.
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SUBRAHMANYAM, T. V.

1948 Sweet flag (*Acorus calamus*), a potential source of valuable insecticide. *J. Bombay nat. Hist. Soc.* 48: 338-341.
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SUEM JANSON, J.

1901 Beitrage zur botanischen und pharmacognostischen Kenntnis von *Hyoscyamus niger* L. *Bibl. Bot. Stuttgart.* 10(51).
4799

SUGUIRA, T.

1936 Studies on the chromosome numbers in higher plants, with special reference to cytokinesis. *Cytologia.* 7: 544-595.
4800

SULBHA

1954 Embryosac of *Scilla. Curr. Sci.* 22(3): 98-99.
Scilla indica Baker was investigated and the findings agreed with those of Govindappa and Sheriff.
4801

1954 The embryology of *Iphigenia indica* Kunth. *Phytomorph.* 4(1 & 2): 180-191.
4802

SULOCHANA, C. B.

1952 Soil conditions and root diseases, with special reference to colonisation and survival of soil *Fusaria* in soil treated with micro-elements. *Proc. Indian Acad. Sci.* B. 35: 209-313.
4803

1952 Soil conditions and root diseases; the effect of micro-elements on the occurrence of bacteria, *Actinomycetes* and fungi in soils. *Proc. Indian Acad. Sci.* B. 36: 19-33.
4804

1952 Soil conditions and root diseases; response of cotton plants to micro-element amendments and its relation to disease development. *Proc. Indian Acad. Sci.* B. 36: 234-241.
4805

SUMMERHAYES, V. S.

1929 Some interesting *Erias* from Burma. *Kew Bull.* [ ]: 307.
4806

1937 *Habenaria* (*Plectroglossa*) *flabelliformis* Summerhayes. *Hook. Icon. Plant.*. t. 3308.
4807

1955 Notes on Asiatic Orchids. *Kew Bull.* 4: 587-589.
Uncifera varrucosa Summerhayes sp. nov. and *Aerides uniflora* (Lindl.) Summerhayes comb. nov. (=*Aerides longicornu* Hook. f., *Hk's Fl. Brit. India.* 6: 44) are described.
4808

1957 Notes on Asiatic Orchids. *Kew Bull* 2: 259-268.
Epigeneum Gagnep. has been reinstated for. Accordingly Summerhayes has made a

SUMMERHAYES, V. S.—*contd.*
number of new combinations under *Epigenium*. *E. anaplum* (Linob.) Summerhayes comb. nov. is an Indian species formerly known as *Dendrobium anaplum*.
4809

SUN, VONGEE
1946 The evolution of taxonomic characters of cultivated *Brassicas* with a key to species and varieties; the characters. *Bull. Torrey bot. Cl.* 73(3): 244.
4810

SUNDARA IYENGAR, B. A. *and* SUBRAHMANYAM, V.
1935 Investigations on the role of organic matter in plant nutrition; influence of fermentable organic matter on the transportation of iron in the swamp soil. *Proc. Indian Acad. Sci.* B. 1(12): 868-892.
4811

SUNDARA RAGHAVAN, R.
1957 Chromosome numbers in Indian medicinal plants. *Proc. Indian Acad. Sci.* B. 14(6): 294-298.
20 plants have been studied and chromosome numbers recorded.
4812

1958 A note on *Coleus parviflorus* Benth. *Curr. Sci.* 27(11): 448.
A south Indian cultivated plant, known as Koorkgan Kilangu has two varieties with tubers (edible), big and small. 2n chromosome number is 64, no difference in these 2 varieties as regards chromosome numbers. *C. aromaticus* has 2n=32. Basic number is 8. These plants are, therefore, high polyploids.
4813

SUNDARA RAO, Y.
1940 Structure and development of the embryosac in *Drimiopsis kirkii* Baker and *Allium govanianum* Wall. *J. Indian bot. Soc.* 19: 273.
4814

1940 Male and female gametophytes of *Polemonium coeruleum* L. *Proc. nat. Inst. Sci. India.* 6: 695.
4815

1943 Some chromosome numbers in the genus *Crotalaria*. *Indian J. Genet.* 3: 64-66.
2n=16 has been found in 10 species of *Crotalaria*.
4816

1945 Chromosomes of *Erythrina indica* Lamk. *J. Indian bot. Soc.* 24(1): 42-44.
4817

1946 Chromosome numbers in *Sesbania*. (Letter). *Curr. Sci.* 15(3): 78.
4818

1950 Chromosome number in *Genisteae*. (Letter). *Curr. Sci.* 19(12): 384-385.
Chromosome numbers of *Heylandia latebrosa, Rothia trifoliata* and a few species of *Crotalaria* (*Genisteae*) have been recorded. Root-tip counts give 2n=16, confirming the haploid number to be 8.
4819

1951 Cytological studies in *Ottelia*. (Letter). *Curr. Sci.* 20(3): 72.
Ottelia alismoides was the subject of study. This plant exists in diploid, tetraploid and pentaploid chromosome races.
4820

1953 Karyo-systematic studies in *Helobiales* (*Butomaceae*). *Proc. nat. Inst. Sci. India.* 19(4): 563-581.
4821

1954 Karyo-systematic studies in *Helobiales* with some observations on *Genisteae*.
Thesis submitted for Ph.D. Degree of the University of Saugar.
4822

1954 Chromosomes of *Scilla hohenackeri* Fisch. & Mey. *Curr. Sci.* 22(3): 94-95.
Shows 10 chromosomes, such low diploid number has never been recorded for any other species of this genus. Morphology of the chromosome is also peculiar, showing either submadian or subterminal constructions. This peculiar feature raised the problem of the evolutionary relationship to the other species.
4823

1956 Further studies on *Scilla hohenackeri* Fisch. & Mey. *Curr. Sci.* 25(2): 63-64.
Additional information on the morphology of the chromosomes of this species has been observed and recorded.
4824

1956 *Scilla indica* in India. *Curr. Sci.* 25(5): 164-166.
Critical study has revealed the existence of a number of chromosome races or cytotypes with 2n=30, 44, 45, 46, 58 & 60 chromosomes. As a result, two groups, diploids and tetraploids, have resolved.
4825

SUNDARALINGAM, V. S.
1954 The developmental morphology of *Chara zeylanica* Willd. *J. Indian bot. Soc.* 33: 272-297.
4826

SUNDARAM, N. V. *and* VENKATA RAO, A.
1957 A new rust on *Garcinia indica*. *Sci. & Cult.* 23(2): 98-99.
4827

SUNDARAM PILLAI, P.
1929-30 Jeevaraasikalin ilakkananum pirivum. *Shend Tamil Chelvi.* 7: 644-651.
In the Tamil language.
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A critical re-examination of *Ascarina alticola* Schlecter from anatomical and morphological points of view and a comparison of the data obtained therefrom with other species of the genus, *Ascarina* and also with other consideration exhibits numerous significant differences that necessitate its exclusion, not only from the genus *Ascarina*, but also from the family. On the other hand, the species proves to be congeneric with *Paracryphia* of the *Eucryphiaceae*. The new synonymy is *Paracryphia alticola* (Schlechter) Steen (=*Ascarina alticola* Schlechter).

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SWAMY, B. G. L. *and* GANAPATHY, P. M.

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SWAMY, B. G. L. *and* SREENIVASAYYA, M.
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SYDOW, P. *and* MITTER, J. H.
1935 Fungi Indici. *Ann. mycol. Berl.* 33: 46-71.
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Contents: V. 1—Pteridophyta, Gymnospermae, Angiospermae: *Typhaceae* to *Gramineae;* V. 2—Angiospermae: *Cyperaceae* to *Juncaceae;* V. 3—Angiospermae: *Liliaceae* to *Musaceae*.
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TADULINGAM, C.
1915 The Madras flora. Coimbatore. 22 p.
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1926 A new species of *Pavonia*; *P. coxii* from Madras. *J. Indian bot. Soc.* 5: 11.
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1915 The chromosome of *Papaver*. *Bot. Mag. Tokyo.* 29.
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1917-21 Contributions to the knowledge of the old world species of the genus *Mahonia* (*Berberidaceae*). *Notes R. bot. Gdn. Edinb.* 6: 209-248.
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1956 Embryogenesis in *Phaseolus vulgaris*. *J. Fac. Sci. Univ. Tokyo.* (S. 3). 6(7-10): 439-452.
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1941 Damaged lands in Deccan and their classification. *Indian J. agric. Sci.* 11: 959-977.
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Second edition published in 1902 under the title *The trees, shrubs and woody climbers of the Bombay Presidency*.
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A study of the various fungi occurring in water in Gauhati and a record of their physiological and morphological characters.

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1935 Relation between Nitrogen fertilisation and Chlorophyll content in Puri Apple plants. *Plant Physiol.* 10: 159-168.

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TANAKA, N.

1938 Chromosome studies in *Cyperaceae; Scirpus lacustris* L. *Cytologia.* 8: 515-520.

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1926 Taxonomic aspects of tropical citriculture. *Philipp. agric. Rev.* 19: 179-184.

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1929 Citrus fruits of the world. *Studia citrol.* 3(1): 125-130.

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1928 Compendium des espèces indochinoises d'*Aurantiacees.* (Revisio *Aurantiacearum*). *Phanerogamie.*

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1928 A note on Retzius's *Limonia pentaphylla. Bot. Notiser.* 2: 158-160.

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1928 Revisio *Aurantiacearum. Bull. Soc. bot. Fr.* 4: 708-715.
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1929 Contribution to the knowledge of *Citrus* classification. *Studia citrol.* 3(2).

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1937 On certain subtropical citrus fruits. *Studia citrol.* 8(1): 68-84.
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1937 On Indian citrus fruits. *Nettai Engie* (*Horticulture tropicale*). 7(1): 1-12.
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1942 A note on the occurrence of *Enteromorpha* at Allahabad. *Proc. nat. Acad. Sci. India*. B. 12(2): 13.
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Contains useful information on plant ecology in general and in particular on the typical forest types of India.

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1942 Studies in *Gesneraceae;* gametogenesis and embryogeny of

Didymocarpus tomentosa Wt. *J. Indian bot. Soc.* 21(3&4): 185-193.

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1942 Studies in *Oxalidaceae; Biophytum sensitivum* Dc., *Averrhoa carambola* L. and *A. bilimbi* L. *J. Indian bot. Soc.* 21: 21-31.

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1943 Studies in *Gesneraceae;* development of seed in *Rhynchoglossum obliquum* Bl. *J. Indian bot. Soc.* 22(1): 51-57.

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1952 Morphological studies in the *Euphorbiaceae; Acalypha lanceolata* Willd. *Phytomorph.* 2: 197-201.

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1953 Morphological studies in the *Euphorbiaceae; Mallotus philippensis* M. Agr. *Proc. nat. Inst. Sci. India.* 19(4): 469-474.

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1953 Morphological studies in the *Euphorbiaceae. J. Mysore Univ.* B. 13(7): 43-68.

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TATHACHAR, T. *and* NAGARAJA RAO, A.

1956 A contribution to the embryology of *Agrostistachys meeboldii* Pax et Hoffm. *Sci. & Cult.* 21: 470-472.

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THIRUMALACHAR, M. J. *and* BASHEER AHMED KHAN, K.

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The development of the female gametophyte and endosperm formation in *Eriodendron anfractuosum* has been studied. The floss is formed from the inner epidermal layer of the carpel. The cells of the floss are binucleate. 5043

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1950 *Telia* of the rust on cultivated figs. *Curr. Sci.* 19: 27-28.

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1951 Some new or interesting fungi. *Sydowia*. (S. 2). 5(3-6): 439-444.

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1854-56 Descriptions of some new genera and species of Ceylon plants. *Hk. J. Bot.* 6: 65-72, 298-304; 8: 266-271. 5088

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VAN WATERS CHOOT VANDER GRAPT, W. A. J. M. *and others*

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Though Wegener's theory and the symposium thereon, relate chiefly to the realm of geology and geological movements, the results of such movements have had a direct bearing on the floristic vegetation on earth and components of their distributions in the past as well as in the present.

5262

VARADARAJA IYENGAR, A. V.

1937 A note on the development of the female gametophytes of some *Malpighiaceae* and polyembryony in *Hiptage madablota*. *Curr. Sci.* 6(6): 281-282.

5263

1938 Studies in the physiology of the spike disease of the Sandal. (Abstr.). *Proc. 25th Indian Sci. Cong.* iii(v): 146-147.
Discusses the subject under: (1) Mineral nutrition of Sandal in relation to health and disease, (2) Carbohydrate metabolism of Spiked Sandal, (3) Nitrogen content of healthy and spiked Sandal tissue, and (4) Metabolic disturbances in Sandal leaves, consequent on spike infection.

5264

VARADARAJA IYENGAR, A. V. *and* RANGASWAMI, S.

1935 Studies in the control of spike disease in Sandal; use of plant poisons in controlling the spread of infection. *Indian For.* 61(2): 103-111.

5265

VARAHA MIHIRA (4th Cent. A.D.)

1884-85 The brihat samhita; tr. by N. Chidambara Iyer. Madura. The translator has deciphered the Sanskrit names of plants, mentioned in the original and has given their scientific equivalents and common Tamil names. The book contains very useful instructions and information on arboriculture and horticulture.

5266

VARARUCI

1651 Yogasata.
Manuscript. India Office Library no. 2756.
In the Devanagari script and in the Sanskrit language. A manual of materia medica.

5267

VARMA, C. P.

1950 A new genus of calcareous alga (*Dasycladaceae*) from the Ranikot beds (Palaeocene) of the Punjab Salt range. (Letter). *Curr. Sci.* 19(7): 207-208.
Morelletpora nammalensis gen. et. sp. nov. from Nammal gorge of the Salt range was collected by S. R. N. Rao in 1946.

5268

1952 An algal flora from the Laki (lower Eocene) beds of the Nammal gorge, Punjab Salt range; *Archaeolithothamnium*. *Proc. nat. Inst. Sci. India.* 18(4): 301-308.

5269

1952 *Clypeina* (*Dasycladaceae*) from the cretaceous of south India. *Palaeobotanist.* 1: 439-441.
Describes *C. sahni* sp. nov.

5270

1953 An algal flora from the Laki (lower Eocene) beds of the Nammal gorge, Punjab Salt range; *Mesophyllum*. *Proc. nat. Inst. Sci. India.* 19(3): 349-355.
Describes *Mesophyllum punjabense* sp. nov. and *Mesophyllum lakiense*. Status of *Mesophyllum* as a separate genus is discussed.

5271

1954 On the algal genera *Neomeris* and *Acicularia* from the Niniyur (Damian beds of the Trichinopoly area, S. India). *Proc. nat. Inst. Sci. India.* 20(3): 298-304.
From the cretaceous (Damian) rocks of the Trichinopoly District, *Neomeris* sp. A.,

VARMA, C. P.—*contd.*
Neomeris sp. B. and *Acicularia* sp. nov. have been figured and described.
5272

1954 On two new species of *Mesembrioxylon* from the cretaceous rocks of the Trichinopoly Dt., Madras. *Palaeobotanist.* 3: 97-102.
5273

1955 Further observations on *Morelletpora nammalensis* Varma, from the Khairabad limestone (Ranikot) beds of the Nammal gorge, Punjab Salt range. *Palaeobotanist.* 4: 101-111.
5274

VARTAK, V. D.
1953 Flora of the Torna hills. *J. Univ. Poona.* 7.
5275

1956 Some imperfectly known plants from Poona and Satara districts. *J. Univ. Poona.* 10: 5-12.
5276

1957 *Solanum esuriale* Lindl., a new record for Bombay State. *J. Bombay nat. Hist. Soc.* 54(4): 965.
5277

VASIL, I. K.
1957 Effect of Kinetim and Gibbirellic acid on excised anthers of *Allium cepa*. *Phytomorph.* 7(2): 138-149.
Recent studies have shown that these chemicals have a pronounced effect on the growth of tissues of plants.
5278

VASISHT, BHAGAT RAM
1927 The comparative anatomy of *Ophioglossum aitchisoni* D'Almeida and *O. vulgatum* L. *J. Indian bot. Soc.* 6: 8-30.
5279

1932 A short note on the structure and development of *Petalophyllum indicum* Kash. *Curr. Sci.* 1: 41.
5280

VASQUE, J.
1893 *Guttiferae. DC. Monogr. Phan.* 8: 1-669.
5281

VASUDEVA, R. S.
1957 Mycology and plant pathology, 1939-1950. *Progress of Science in India. Section 6, Botany.* p. 1-25.
Discusses the contributions under the heads: systematic mycology, physiological studies, industrial mycology, diseases caused by fungi, diseases caused by bacteria and diseases caused by viruses. At the end of the reviews, a bibliography is appended.
5282

VASUDEVA SAHAI, R.
1935 Effect of one organism on the parasitic activity of another. *J. Indian bot. Soc.* 14: 71.
5283

VAVILOV, N. I.
1926 Studies on the origin of cultivated plants. Leningrad.
In the Russian language.
5284

1940 The new systematics of cultivated plants. Oxford.
5285

1951 Selected writings of N. I. Vavilov: the origin, variation, immunity and breeding of cultivated plants, tr. from the Russian by K. Staar Ghester. Waltham, Mass., Chronica Botanica Co. xviii, 364 p.
" . . . We find in one volume a clear demonstration of a width of outlook combined with a mastery of detail that recalls Darwin's 'Origin of

Species'. . . . Vavilov's researches are of prime importance to geneticists and botanists alike and this book should be widely read by all interested in plant genetics and new systematics."—W. B. Turrill; *Kew Bull.* 1: 84-86(1952).

5286

VEITCH, JAMES HERBERT

1896 A traveller's notes; or, Notes of a tour through India, Malayasia, Japan, Corea, the Australian colonies and New Zealand during the years 1891-93. London, J. Veitch & Sons. 219 p.

5287

VEITCH, JAMES & SONS, *Pub.*

1881 A manual of the *Coniferae*, containing a general review of the order, a synopsis of the hardy kinds cultivated in Great Britain, their place and use in horticulture. London, J. Veitch & Sons. 350 p.

5288

1887-94 A manual of Orchidaceous plants; cultivated under glass in Great Britain. London, J. Veitch & sons. 2v.
Contents: V. 1—*Epidendreae;* V. 2—*Vandeae, Cypripedeae.*

5289

VELAPPAN NAIR, R. *and* SUBRAHMANYAM, R.

1955 The diatom *Fragilaria oceanica* Cleve, an indicator of abundance of the Indian oil Sardine. *Sardinella longiceps* Cuv. & Val. *Curr. Sci.* 24(2): 41-42.
Describes the life history of the diatom.

5290

VELENOVSKY, J.

1883 Uber die Trauben Wickel von *Drosera rotundifolia. Flora.* [ ]: 161.

5291

1885 Uber den Bluetenstand des *Cardiospermum halicacabum* L. *Flora.* [ ]: 375.

5292

VENKATACHALA, B. S.

1956 Some observations on *Riccia discolor* L. (Letter). *Curr. Sci.* 25(3): 89-90.
The life history of *Riccia discolor* L. (=*Riccia himalayensis* Kash.) has been worked out in detail and recorded.

5293

VENKATA KRISHNAYYA, R. S.

1926 Moolika vaidya prakasika. Bangalore, Kalanidhi Press. 3v.
In the Kannada language. Illustrated descriptive account of 300 plants.

5294

VENKATANARAYANA, G.

1957 On certain aspects of the development of the leaf of *Cocos nucifera* L. *Phytomorph.* 7: 297-305.

5295

VENKATANATHAN, T. N.

1932 Studies on *Isoetes coromandelina* L.
Thesis submitted for the Degree of M.Sc. of the Madras University.

5296

VENKATARAM, C. S.

1955 Some aspects of variation and variability in *Fusaria* with reference to the taxonomy of the genus. *Proc. Indian Acad. Sci.* B. 41(3): 123-131.

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VENKATARAMAN, G.

1939 A systematic account of some south Indian diatoms. *Proc.*

VENKATARAMAN, G.—*contd.*
Indian Acad. Sci. B. 10(6): 293-368.
Part of a thesis submitted for the Degree of M.Sc. of the University of Madras. This is the first account of south Indian diatoms. 98 forms are described representing 33 genera. Of these 63 are new records for India, 13 are new species, 6 new varieties and 6 new forms. Gives an alphabetical table of diatoms described with the habitats.
5298

VENKATARAMAN, G. S.
1957 The algal flora of the ponds and puddles inside the Banaras Hindu University grounds, India. *J. Bombay nat. Hist. Soc.* 54(4): 908-919. 61 species are described representing 38 genera.
5299

1957 A note on the occurrence of 3-pored heterocysts in *Mastigocladus laminosus* Cohn. (Letter). *Curr. Sci.* 25(8). 254.
5300

1957 A statistical study of a form of *Wollea bharadwajee* Singh. *Curr. Sci.* 26(6): 180-181.
5301

VENKATARAMAN, K. S.
1945 Preliminary studies on Bhendi (Lady's finger, gumbo, okra), *Hibiscus esculentus*. *Madras agric. J.* 33: 201-207.
5302

1946 Studies on south Indian bananas. *Proc. Indian Acad. Sci.* B. 23(2): 113-128.
24 varieties have been studied from the time of planting the sucker till the harvest of the fruit bunch.
5303

1948 A note on some abnormal flowers of *Hibiscus esculentus* L. *Proc. Indian Acad. Sci.* B. 27: 105-110.
5304

1951 An interesting instance of 'viviparous' germination in *Carica papaya* L. *J. Madras Univ.* B. 21: 218-219.
5305

1952 A preliminary study on some inter-varietal crosses and hybrid vigour in *Hibiscus esculentus* Linn. *J. Madras Univ.* B. 22: 183-200.
5306

1953 Some observations on blossom biology and fruit formation in *Hibiscus esculentus*. *J. Madras Univ.* B. 23(1): 1-14.
5307

1955 The banana complex. *J. Indian bot. Soc.* 34(1): 79-84.
5308

VENKATARAMAN, R.
1956 Observations on the effect of biotic factor in colonization and succession of vegetation in the Botanic Garden at Annamalainagar. (Abstr.) *Proc. 43rd Indian Sci. Cong.* iii: 274-275.
Interesting observations have been recorded on the shade-loving and sun-loving colonisers of experimental plots.
5309

VENKATARAMAN, T. S.
1937 Sugarcane-bamboo hybrids. *Indian J. agric. Sci.* 7(3): 513-514.
5310

1938 Hybridization in and with the genus *Saccharum*, its scientific and economic aspects. *Proc. 25th Indian Sci. Cong.* ii: 267-284.
Presidential address to the Section of Agriculture. Dis-

cusses briefly about the following points:—taxonomic position of the genus *Saccharum*, wild *Saccharum*—habitat and range of forms, cultivated *Saccharum* (Sugarcane)—distribution and types, species of *Saccharum* and their characteristics, breeding by hybridization, inter-varietal hybrids, intergeneric hybrids with *Sorghum* and bamboo, peculiarities of hybrids, economic and other results.

5311

VENKATA RAO, A. *and* SESHA IYENGAR, H.

1940 Osadhi kosam. Madras, the University. (Kannada Series, no. 7).
This is based on a manuscript obtained from Jaina Siddhanta Bhavana, Arrah (N. India), and contains the meanings of technical words.

5312

VENKATA RAO, C.

1946 Some abnormal flowers of *Angelonia grandiflora* C. Morr. *J. Indian bot. Soc.* 25: 7.

5313

1948 Development of embryosac in some *Sterculiaceae*. *Curr. Sci.* 17: 304.

5314

1949 Floral anatomy of some *Sterculiaceae* with special reference to the position of the stamen. *J. Indian bot. Soc.* 28: 237.

5315

1949-50 Contributions to the embryology of *Sterculiaceae*. *J. Indian bot. Soc.* 28: 180; 29: 163.

5316

1950 Contributions to the life history of ***Melochia corchorifolia*** L. (Abstr.). *Proc. 37th Indian Sci. Cong.* iii: 44.

5317

1951 Life history of ***Muntingia calabura*** L. (Letter). *Curr. Sci.* 20(2): 47-48.

5318

1954 Embryological studies in *Malvaceae;* development of the gametophytes. *Proc. nat. Inst. Sci. India.* 20(2): 127-150.
Organogeny, development of male and female gametophytes and structure of the ovules are studied in the following species:—*Sida cordifolia* L., *S. veronicaefolia* Lam. (=*S. humilis* Willd.), *S. carpinifolia* L., *Abutilon indicum* G. Don, *Althaea rosea* Cav., *Kydia calycina* Roxb., *Urena lobata* L., *Malvaviscus arboreus* Cav., *Pavonia zeylanica* L., *Malachra capitata* L.; *Hibiscus solandra* L., *H. micranthus* L., *H. hirtus* L., *Abelmoschus esculentus* (L.) Moench. and *Thespesia populnea* Corr.

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1954 A contribution to the embryology of *Bombacaceae*. *Proc. Indian Acad. Sci.* B. 39(2): 51-75.
Work undertaken to find out how far embryological character justifies the raising of this tribe of *Malvaceae* to the status of a separate family. Deals with development and structure of the anther, pollen, ovule and embryo-sac in the following members of the family: *Eriodendron, Bombax, Pachira, Adansonia* and *Ochroma*.

5320

VENKATA RAO, C.—*contd.*

1955 Embryological studies in *Palmae;* pts. 1-3. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 230-232.
The following species have been studied: *Borassus flabellifer* L., *Areca catechu* L., *A. concinna* Thw., *A. triandra* Roxb., *Pritchardia pacifica* Seem., *P. grandis* and *Actinophloeus macarthurii* Becc.
5321

1956 Embryological studies in *Palmae*: pts. 4-5. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 225-226.
The following species have been studied: *Licuala grandis, L. peltata, L. spinosa, Livistona chinensis, L. rotundifolia, Sabal adansoni, S. palmetto, Trachycarpus* and *Washingtonia* species.
5322

VENKATA RAO, C. *and* RAMA RAO, S.

1955 Embryology of two *Asclepiadaceae.* (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 232.
Developments of anther, pollen, ovule, embryosac, endosperm, embryo and seeds have been studied in *Caralluma attenuata* Wt. and *Cryptostegia grandiflora* R. Br.
5323

VENKATA RAO, C. *and* RAO, C. S.

1953 Intermediate botany for the I.A. and I.Sc. courses. Guntur, Rao Broths. xiv, ii, 570, xxxviii p.
5324

VENKATA RAO, M. G.

1934 Studies in spike disease of Sandal. *Indian For.* 55: 481.
5325

1933 A preliminary note on the leaf-curl mosaic disease of Sandal. Bangalore. 6 p. (Mysore Sandal Spike Investigation Committee bulletin, no. 3).
5326

1935 The role of undergrowth in the spread of spike disease of Sandal. *Indian For.* 61: 169.
5327

VENKATA RAO, M. G. *and* GOPALA IYENGAR, K.

1934 Studies in spike disease of Sandal; methods of inoculation and variation results under different methods. Bangalore. 13 p. (Mysore Sandal Spike Investigation Committee bulletin, no. 5).
5328

VENKATARATNAM, L.

1950 *Muntingia calabura* Linn., a draught resisting exotic plant. *J. Bombay nat. Hist. Soc.* 49: 804-806.
5329

VENKATARAYAN, S. V.

1932 *Tylenchus* sp. forming leaf galls on *Andropogon pertusus* Willd. *J. Indian bot. Soc.* 11: 243.
5330

VENKATASUBBAN, K. R.

1944 Cytological studies in *Bignoniaceae.* Annamalai Nagar, Annamalai Univ. 160 p.
Thesis submitted for the M.Sc. Degree of the Annamalai Univ., Annamalai Nagar.
5331

1945 Cytological studies in *Bignoniaceae*: the cytology of *Dolichandrone rheedii* Seem and allied genera. *Proc. Indian Acad. Sci.* B. 21(2): 77-92.
The somatic chromosome numbers have been determined for the first time for a number of species of the *Bignoniaceae.*

2n is 40 in all except *Spathodea nilotica* which is 26.

5332

1945 Cytological studies in *Palmae;* chromosome numbers in a few species of palms of British India and Ceylon. *Proc. Indian Acad. Sci.* B. 22(3): 193-207.
A study of the root-tip chromosomes of 30 species of *Palmae* spread over 23 genera. 16 chromosomes seem to be the primary basic number and two secondary basic numbers 14 and 18 are derived due to fusion and fragmentation of some chromosomes.

5333

1946 A preliminary survey of chromosome numbers in *Scitamineae* of Bentham & Hooker. *Proc. Indian Acad. Sci.* B. 23(6): 281-300.
This part is a sort of reconnaissance in the direction of classification of Bentham and Hookers *Scitamineae* to see how a study of the chromosome numbers of these plants supports relationships recognised on morphological grounds.

5334

1950 Studies in the *Droseraceae;* cytology of *Drosera indica* L., *D. burmanni* Vahl and *D. peltata* Sm., with special reference to pollen mitosis. *Proc. Indian Acad. Sci.* B. 31(6): 308-330.

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VENKATESAN, K. R.

1951 Catalogue of the plants of the Botanic Garden, Annamalai University. *J. Annamalai Univ.* 16(9): 110-114.

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VENKATESH, C. S.

1948 Key to the *Compositae* of Bangalore. *J. Mysore Univ.* B. 8(1): 1-8.
45 species belonging to 39 genera have been included.

5337

1952 Anther and pollen grains of *Zannichellia palustris* L. (Letter). *Curr. Sci.* 21(8): 225-226.

5338

1955 The structure and the dehiscence of the anther in *Memecylon* and *Mouriria. Phytomorph.* 5(4): 435-440.

5339

1956 The form, structure and special modes of dehiscence in anthers of *Cassia;* subgenus *Fistula. Phytomorph.* 6(2): 168-176.

5340

1956 The form, structure and special modes of dehiscence in anthers of *Cassia;* subgenus *Hasiorhegma. Phytomorph.* 6(3 & 4): 272-277.

5341

1956 The curious anther of *Bixa;* its structure and dehiscence. *Amer. Midl. Nat.* 55(2): 473-476.

5342

1956 Structure and dehiscence of the anther in *Najas. Bot. Notiser.* 109(1): 75-84.
Anthers of *N. palustris* and *N. graminea* are quadrilocular and contain 4 pollen-sacs unlike the unilocular anther of *N. flexilis.* The anther tapetum forms a periplasmodium and different kinds of pollen tetrads.

5343

1956 The taxonomic value of the androecium in the genus

VENKATESH, C. S.—*contd.*

Cassia. J. Bombay nat. Hist. Soc. 53(3): 496-499.
A key to the species of *Cassia* based on the characteristic of the stamens and anthers.

5344

1957 The form, structure and special ways of dehiscence of *Cassia;* subgenus *Senna. Phytomorph.* 7(2): 253-273.

5345

VENKATESWARA, *ed.*

Ayurveda chintamani. Bombay, the ed. 288 p.
A compilation from all the ancient medical treatises of India from Charaka.

5346

VENKATESWARLU, J.

1937 Contribution to the embryology of *Sonneratiaceae. Proc. Indian Acad. Sci.* B. 5(5): 206-223.

5347

1937 Structure and development of the embryosac of *Pemphis acidula* Forst. *J. Indian bot. Soc.* 16(5): 259-262.

5348

1939 A note on the structure and development of the ovule and embryosac in two species of *Launaea. Curr. Sci.* 8(12): 556-557.
Launaea nudicaulis and *L. asplenifolia* are the material in this study.

5349

1941 Vascular supply in the ovules of some *Compositae. Curr. Sci.* 10(8): 367-368.

5350

1944 The estuarine flora of the Godaveri. *J. Bombay nat. Hist. Soc.* 44: 431-435.

5351

1945 Biological studies in the *Thymelaceae; Thymelaea arvensis* Lamk. *J. Indian bot. Soc.* 24(2): 45-66.

5352

1945 A podostemad from the Eastern Ghat Hills in Orissa. (Letter). *Curr. Sci.* 14(9): 240-241.
Zeylanidium lichenoides occurring on wet rocks on the rivers of Angud, Cuttack is recorded

5353

1946 Chromosome number of two members of *Thymelaceae.* (Letter). *Curr. Sci.* 15(5): 142.
Chromosomes of *Daphne cannabina* and *Wickstroemia canescens* Meissn, have been reported. The haploid number is 9.

5354

1946 A case of polyembryony in *Daphne cannabina* Linn. (Letter.) *Curr. Sci.* 15(6): 169.

5355

1952 Contributions to the embryology of *Combretaceae; Poivrea coccinea* Dc. *Phytomorph.* 2: 231-240.

5356

1952 Reversed polarity in embryosac of *Napoleonia imperialis* Pal, B. (Letter). *Curr. Sci.* 21(6): 167.

5357

VENKATESWARALU, J. *and* ACHUTARAMA MURTHY, B.

1955 Embryological studies in *Boraginaceae; Coldenia procumbens* L. *J. Indian bot. Soc.* 34: 235-247.

5358

1955 Life history of *Coldenia procumbens* Linn. *Curr. Sci.* 24(1): 26-27.

5359

VENKATESWARLU, J. *and*
LAKSHMINARAYANA, L.

1955 Contribution to the embryology of *Hydrocera triflora* W. & A. (Abstr.). *Proc. 42nd Indian Sci. Cong.* iii: 236.
Oculus are tenuinucellatae, bitegmic and anatropous. Fertilisation is porogamous. Embryo develops according to Asterad type.
5360

1957 A contribution to embryology of *Hydrocera triflora* W. & A. *Phytomorph.* 7(2): 194-203.
The life history of *Hydrocera triflora* is described. Embryological feature of *Hydrocera triflora* is compared with those of the investigated species of *Impatiens*.
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VENKATESWARLU, J. *and*
MAHESWARI DEVI, H.

1955 Embryological studies in the *Compositae; Launaea pinnatifida* Cass. *Proc. Indian Acad. Sci.* B. 51: 38-46.
The development of the anther and pollen, megasporogenesis, female gametophyte, fertilisation, endosperm and development of the embryo have been studied.
5362

1955 Embryological studies in *Compositeae; Helenieae. Proc. nat. Inst. Sci. India.* B. 21(4): 149-161.
Embryology of *Tagetes patula, Flaveria australasica* and *Gaillardia picta* has been studied and reported.
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VENKATESWARLU, J. *and*
MAJUMDAR, S. R.

1956 Contribution to the embryology of *Talinum triangulare* Willd. (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 237-238.
5364

VENKATESWARLU, J. *and*
NARAYANA, L. L.

1955 Life history of *Hydrocera triflora. Curr. Sci.* 24(2): 52-53.
5365

VENKATESWARLU, J. *and*
RAMAKRISHNA REDDI, V.

1956 Morphology of the pachytene chromosomes and meiosis in *Sorghum subglabrescens,* a *Eu-Sorghum. J. Indian bot. Soc.* 35(3): 344-355.
5366

VENKATESWARLU, J. *and*
SUBBA RAO, N. V.

1956 Embryological studies in the genus *Phaseolus.* (Abstr.). *Proc. 43rd Indian Sci. Cong.* iii: 237.
Embryology of *P. aconitifolius, P. trilobus* and *P. radiatus* has been studied.
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VENKATESWARLU, V.

1936 A preliminary note on the development of the embryosac in *Averrhoa carambola* Linn. *Curr. Sci.* 5(1): 23.
5368

1942 A note on *Borassus flabellifer* Linn. *Curr. Sci.* 12(2): 56.
Deals with the unusual occurrence of a monoecious tree of *Borassus flabellifer* L. having both the pistillate and staminate flowers on the same spadix.
5369

VENNING, FRANK D.

1954 The relationship of illumination to the differentiation of a morphologically specialised endodermis in the axis of the

VENNING, FRANK D.—*contd.*
potato, *Solanum tuberosum* L. *Phytomorph.* 4 (1 & 2): 132-139.
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VENUGOPALAN, S.
1954 Studies in the cytology and embryology of the Indian *Aristolochia*.
Thesis for the Degree of M.Sc. of the Annamalai University.
5371

VERDOORN, F. *and others*
1932 Manual of bryology. The Hague, M. Nijhoff. ix, 486p.
5372
1938 Manual of pteridology. The Hague, M. Nijhoff. xx, 640 p.
5373
1950 The international plant science congresses, their history and aims.
Reprinted from *Proceedings of the 7th International Botanical Congress, Stockholm*, 1950.
5374

VERDOORN, R.
1930 Die *Frullaniaceae* der Indo-malesischen Inseln. *Ann. Bryol. Hague.* (Supplt.): 1-187, 304.
5375

VERMA, G. S.
1940 A new species of *Bombardia* (*B. hyalina* sp. nov.) occurring on dry twigs of *Thunbergia grandiflora* Roxb. *Proc. Indian Acad. Sci.* B. 11(1): 45-49.
5376

VERMA, J. K.
1950 A petrified monocotyledonous inflorescence from the Deccan Inter-trappean beds, Chindwara, M.P. *J. Bombay nat. Hist. Soc.* 53(3): 505.
5377
1950 On a new petrified flower *Sahnipushpum shuklai* sp. nov. from the Inter-trappean beds of Mohgaon Kalan in the Deccan. *J. Bombay nat. Hist. Soc.* 53(3): 505-506.
5378

VERMA, S. C.
1956 Cytology of *Ophioglossum*. *Curr. Sci.* 25(12): 398-399.
116 bivalents have been observed at the first meiotic metaphase.
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1958 Cytology of fern genus *Acrophorus*. *Curr. Sci.* 27(5): 177-178.
5380

VERMEUIEU, P.
1938 Chromosomes in *Orchis*. (*Orchis latifolia* L.). *Chron. Bot.* 4: 107.
5381

VERNON, I.
1942 The role of anatomy in the phylogenetic studies of the monocotyledoneae. *Chron. Bot.* 7(6): 25.
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VERTUE, J.
1859 General description of the country between Parvatipore and Jeypore. *Madras J. Lit. & Sci.* 21: 264-294.
5383

VESQUE, J.
Revision du genere *Eurya* Thunb. *Bull. Soc. bot. Fr.* 42: 151-161.
5384

VICARY, N.
1847 Notes on the botany of Scinde. *J. Asiat. Soc. Bengal.* 16: 1152.
5385

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