KEY WORKS TO THE TAXONOMY OF

FLOWERING PLANTS OF INDIA

M. P. NAYAR

VOLUME 3

BOTANICAL SURVEY OF INDIA

Key Works to the Taxonomy of Flowering Plants of India by Dr. M. P Nayar, M. Sc., Ph. D. (London), FLS, with up-to-date references, annotations, systematic position of the families is under publication in series of volumes. The author has prepared these series from his collections of bibliography and nomenclature reference systems of over 30,000 entries. The First Volume (Acanthaceae to Crypteroniaceae) is published in early 1984.

The Second volume deals with families in alphabetical sequence from Cucurbitaceae to Juncaginaceae. The Third volume deals with families Labiatae to Lythraceae. Data on the circumscription of families, modern classificatory systems and data on the families and genera are presented and they are arranged in alphabetical sequence. Under each family there is main data source dealing with monographic work on the family or particular subfamily or tribe with additional information on cytotaxonomy, palynology and chemotaxonomy. This source book of reference will be useful in the study of taxonomy, plant genetic resources and conservation of flora. Wherever useful plants are cited, the taxonomy of such taxa are more or less comprehensively covered as this may serve as a data source for genetic resources, plant variations and genotypic variations.

FLORA OF INDIA (Series IV)

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LABIATAE TO LYTHRACEAE

M. P. Nayar

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CONTENTS

INTRODUCTION

All the families of flowering plants occurring in India are arranged in alphabetical order from A to Z (Acanthaceae to Zygophyllaceae). Gymnosperms and Pteridophytes are treated separately and the families are arranged in alphabetical sequence. The families are delimited as per modern concept and for families segregated from the main family there are cross references and annotations. A brief synoptical account of the families is given with references. Under each family the genera occurring in India are enumerated in alphabetical sequence. A separate list of genera which are cultivated in India is also included. Under each family there is main data source dealing with monographic work on the family, or particular subfamily or tribe with additional informations as are available on cytotaxonomy, palynology and chemotaxonomy. Monographs which are basic to the family are cited in order to get a holistic view of the family. Pre-1900 references are quoted only for critical and monographic citations. Since this book deals with key reference for taxonomic literature, distributional records of local or narrow geographical range are excluded in the citations. Wherever cytological, palynological and other data which may help in the synthesis of taxonomic concepts of a taxon are available, such references are included. But purely morphological, embryological or anatomical data which are not readily relevant to taxonomy are not considered in this book.

As mentioned earlier under each family and under each genus citations are arranged authorwise alphabetically. Where more than one reference is cited for the same author, they are indexed chronologically. Where references to joint authors are cited they are arranged first alphabetically and followed by their datewise sequence. In the references where the actual date of publication is different from the accredited date of publication, the date of effective publication is the date of the actual publication as per Art 30 & 32 of International Code of Botanical Nomenclature (1978). The accredited date is given in parenthesis before the actual date of publication. The abbreviation *ibid.* for denoting the same journal repeated in separate citations, is avoided in order to help computer scanning of journals. In the same way each author name is repeated without giving the usual *ditto* sign. Each citation is complete on its own with standard abbreviations with a code number. Brief annotations wherever relevant are given. In the annotations abbreviations are used : *descr.*

for description, *distr.* for distribution, spp. for species, *enum.* for enumeration. For references to the publication of the classifications of Airy-Shaw, Bentham & Hooker, Cronquist, Dahlgren, Engler, Hutchinson, Takhtajan and Thorne, the reference is not repeated. A common reference to their classification system is given below. All the citations are coded as per family code devised by Weber (Taxon 31 : 74-88. 1982). In a subject where such vast information system is assembled there may be some omissions and the author considers it useful if additional information or data are brought to his attention.

Acknowledgements

I am grateful to Dr. T. N. Khoshoo, Secretary to the Government of India, Ministry of Environment & Forests for giving the idea of the preparation of a familywise and genuswise taxonomic data index. I am grateful to Prof. A. K. Sharma, Chairman, SPAC of Botanical Survey of India for encouragement.

M. P. NAYAR

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Synopsis of a putatively phylogenetic classification of the flowering plants. *Aliso* 6(4) : 57-66.

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Proposed new realignments in the angiosperms. *Nord. Journ. Bot.* 3 : 85-117.

LABIATAE

(*Nom. alter.* Lamiaceae)

The family Labiatae includes about 180 genera and 3500 species of cosmopolitan distribution.

The family is included in the order Lamiales by Bentham & Hooker, Cronquist, Dahlgren, Hutchinson, Takhtajan and Thorne and in the order Tubiflorae by Engler.

The family Labiatae is often provided with gland dotted or glandular hairs. The leaves are exstipulate. The flowers have 2-lipped corolla, 4 or 2, epipetalous stamens and 2-carpelled superior, 4-locular ovary with one basal ovule in each locule. The characteristic gynobasic style the more or less deeply 4-clefted ovary ripening into 4 nutlets distinguish the Labiatae from its allied family Verbenaceae.

Briquet (1898) classified the family into the following sub-families : Ajugoideae (seeds exalbuminous) and Prostantheroideae (seeds albuminous).

The family is represented in India by the following genera : *Achyrospermum, Acrocephalus, Ajuga, Anisochilus, Anisomeles, Calamintha, Chamaesphacos, Chelonopsis, Colebrookea, Coleus, Colquhounia, Craniotome, Dracocephalum, Dysophylla, Elsholtzia, Endostemon, Eremostachys, Erianthera, Eriophyton, Eusteralis* (reduced to *Pogostemon). Galeopsis, Geniosporum, Gomphostemma, Hyptis, Hyssopus, Lagochilus, Lamium, Lallemantia, Lavandula, Leonotis, Leonurus, Leucas, Leucosceptrum, Lycopus, Marrubium, Melissa, Meriandra, Mesona, Micromeria, Microtaena, Moluccella, Moschosma, Nepeta, Notochaeta, Ocimum, Origanum, Orthodon, Orthosiphon, Otostegia, Paraphlomis, Perilla, Perovskia, Phlomis, Platostoma, Plectranthus, Pogostemon, Prunella, Roylea, Rubiteucris, Salvia, Scutellaria, Stachys, Stiptanthus, Teucrium, Thymus.*

Dahlgren (1983) mentions that the association of Lamiales with Boraginales by Cronquist (1981) on the basis of the four-parted schizocarp and gynobasic style is rather far-fetched. According to Dahlgren this created "a very artificial constellation of families where more important morphological embryological and chemical features have been disregarded".

The Labiatae and Verbenaceae are chemically related and they share very similar carbocyclic iridoids, coumarins and monosequi and di terpenoids (Seigler, 1981).

The family Labiatae is a source of volatile spicy oils and perfumes. Lavender (*L. officinale*) ; Rosemary (*Rosmarinus officinale*) ; Thyme (*Thymus serpyllum. T vulgare*) ; Mint (*Mentha spicata, M. piperita*) ; Pot marjoram (*Origanum vulgare*) ; Sweet marjoram (*Majorana hortensis*) ; Tulsi or basil (*Ocimum sanctum, O. basilicum*) ; Patchouli (*Pogostemon cablin*).

Some of the well-known lamiaceous horticultural plants belong to the following genera : *Coleus, Galeopsis, Salvia.*

Some of the species of the following genera are cultivated in India : *Majorana, Rosmarinus, Satureja* as ornamental or medicinal plants.

For recent taxonomic revisions refer Codd (1959, 1971), El-Gazzar & Watson (1970), Keng (1969, 1978), Mukherjee (1938), Pren (1982) ; for palynology refer Borzova (1962), Risch (1956), Varghese & Verma (1968), Wunderlich (1967) ; for cytology and Chromosome studies refer Bhattacharya (1978), Gill (1971, 1974), Mehra & Gill (1972).

GENERAL

LAB 1 Bentham, G. 1832-36

Labiatarum genera et species : or a description of the genera and species of plants of the order Labiatae with their general history, characters, affinities and geographical distribution. i-lxviii, 1-783. London.

LAB 2 Bentham, G. 1848

Labiatae. *In* : DC., *Prodr.* 12 : 27-603. Monographic.

LAB 3 Bhattacharya, S. 1976

Chromosome study of some Indian members of the tribe Stachydeae of Labiatae. *Izv. Akad. Nauk. Gruz SSR ser. Biol.* 2(3) : 249-259. Chrom. nos.

LAB 4 Bhattacharya. S. 1978

A cytotaxonomic study of some members of the tribe Ocimoideae (Labiatae). *Rev. Roum. Biol. Bot.* 23(1) : 3-9. Chrom. nos.

LAB 5 Borzova, I. A. 1962

To the problem of morphology of pollen grains of Labiatae (in Russian). *Tr. Geol. Inst. Akad. Nauk SSSR Dokl. Soviet Palynology. Moscow,* 33-37.

LAB 6 Briquet, J. 1889-1898

Fragmenta Monographiae Labiatarum. Bull. Soc. Bot. Geneve 5 : 20-122. 1889 ; *Ibid. Bull. Herb. Boiss.* 2 : 119-141. 1894 ; *loc. cit.* 2 : 689-724. 1896 ; *loc. cit.* 4 : 676-696, 762-808, 847-878. 1896 ; *Ann. Conserv. Jard. Bot. Geneve* 2 : 102-251. 1898.

LAB 7 Caius, J. F. 1941

The medicinal and poisonous labiates of India. *Journ. Bombay Nat. Hist. Soc.* 42 : 380-420. A key to 49 genera.

LAB 8 Chevalier, A. 1938

Les labiees cultivees au utilisees dans les pays tropicaux. *Rev. Bot. Appl.* 18 : 470-488.

LAB 9 Dunn, S. T. 1913

Notes on Chinese Labiatae. *Notes Roy. Bot. Gard. Edinb.* 8 : 153-171.

LAB 10 Dunn, S. T. 1915

A key to the Labiatae of China. *Notes Roy. Bot. Gard. Edinb.* 6 : 127-190. Keys to genera.

LAB 11 El-Gazzar, A. & Watson, L. 1970

A taxonomic study of Labiatae and related genera. *New Phytologist* 69 : 451-486.

LAB 12 Gill, L. S. 1971

Cytology of West Himalayan Labiatae : tribe Ajugoideae. *Bull. Bot. Soc. Bengal* 25(1-2) : 31-32. Chrom. nos.

LAB 13 Gill, L. S. 1971

Cytology of West Himalayan Labiatae : tribe Satureineae. *Caryologia* 24(2) : 203-207. Chrom. nos.

LAB 14 Gill, L. S. 1974

B-Chromosomes in the family Labiatae. *Sci. Cult.* 40(3) : 118-119.

LAB 15 Huang, T.-C. & Cheng. W.-T 1971

A preliminary revision of Formosan Labiatae. 1. *Taiwania* 16(1) : 157-174.

LAB 16 Junell, S. 1934

Zur Gynaceummorphologie und Systematik der Verbenaceen und Labiate etc. *Symb. Bot. Uppsala* 1, No. 4, 1-219, fig. 1-257. Delimitation of the families on the basis of gynoecium morphology.

LAB 17 Keng, Hsuan 1969

Flora Malesianae Precursores XLVIII. A revision of Malesian Labiatae. *Gard. Bull. Sing.* 24 : 13-180, 32 fig., 1 pl. Precursory revision with keys.

LAB 18 Keng, H. 1978

Labiatae. *In* : van Steenis, *Fl. Males.* I, 8 : 301-394, 32 fig. Monographic.

LAB 19 Kingdon-Ward, F. 1934

Some good Labiatae. *Gard. Chron.* III, 95 : 326.

LAB 20 Kudo, Yushun 1929

Labiatarum Sino-Japonicarum prodromus. Eine Kritische Besprechung der Labiaten Ostasiens. *Mem. Fac. Sci. Agr. Taihoku Univ.* 2 : 37-332. Monographic.

LAB 21 Kumari, S. 1977

A note on monadelphy in some Lamiaceae (Labiatae). *Curr. Sci.* 46(1) : 22-23.

LAB 22 Launert, E. 1968

Miscellaneous notes on Labiatae. *Mitt. Bot. Munchen* 7 : 295-307.

LAB 23 Li, H.-W. 1974

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[Some changes of botanical name in Chinese Labiatae]. *Acta Phytotax. Sin.* 13(1) : 72-95. Accepts *Rabdosia* for *Plectranthes* ; in Chinese.

LAB 25 Mehra, P. N. & Gill, L. S. 1972

Cytology of west Himalayan Labiatae : tribe Ocimoideae. *Cytologia* 37(1) : 53-57. Chrom. nos.

LAB 26 Morton, J. K. 1962

Cytotaxonomic studies on the west African Labiatae. *Journ. Linn. Soc. London Bot.* 58 : 231-283, 17 fig.

LAB 27 Mukerjee, S. K. 1938

A decade of new Labiatae from India, Burma and Tibet. *Notes Roy. Bot. Gard. Edinburgh* 19 : 303-308.

LAB 28 Mukherjee, S. K. 1940

A revision of the Labiatae of the Indian Empire. *Rec. Bot. Surv. India* 14(1) : i-viii, 1-228.

LAB 29 Paul, S. R. 1979

Taxonomic notes on certain taxa of Indian Lamiaceae. *New Botanist* 6 : 45-47. List of 13 spp.

LAB 30 Prain, D. 1890 & 1897

Noviciae Indicae-3. Some additional species of Labiatae. *Journ. Asiat. Soc. Beng.* n. ser. II. 59 : 294-318. 1890.

LAB 31 Pren, J. R. 1982

Taxonomic studies in the Labiatae : tribe Pogostemoneae. *Bull. Brit. Mus. (Nat. Hist.) Bot. ser.* 10(1) : 1-89. The genus *Dysophylla* is reduced to a sect. *Eusteralis* of *Pogostemon.*

LAB 32 Pijl L, van der 1972

Functional considerations and observations on the flowers of some Labiatae. *Blumea* 20(1) : 93-103.

LAB 33 Rehder, A. 1916

Labiatae. *In* : Sarg., *Pl. Wils.* 3 : 380-384.

LAB 34 Risch, C. 1956

Die pollenkorner der Labiaten. *Willdenowia* 1(4) : 617-641.

LAB 35 Srinivasan, K. S. & Agarwal, V. S. 1963

Taxa of Indian Acanthaceae, Verbenaceae and Labiatae amending and/or supplementing Calder's (1926) and Razi's (1959) lists of additions to Hooker's Flora of British India. *Bull. Bot. Surv. India* 5 : 79-88.

LAB 36 Varghese, T. M. & Verma, D. P. S. 1968

Pollen morphology of some Indian Labiatae. *Journ. Palynol. Lucknow* 4 : 77-83.

LAB 37 Wunderlich, R. 1967

Ein Vorschlag Zu einer naturlichen gliederung der Labiaten auf Grund der pollen-korner der samenentwicklung und des reifen Samens. *Osterr. Bot. Z.* 114(4-5) : 383-483.

Acrocephalus Benth.

LAB 38 Nicolson, D. H. & Sivadasan, M. 1980

Identification of *Gomphrena hispida* Linnaeus with *Acrocephalus* (Lamiaceae). *Taxon* 29 : 324-325.

Anisomeles R. Br.

LAB 39 Mc Vaugh, R. 1971

Report of the Committee for Spermatophyta : Conservation of generic names : 14. Proposal 298 [7284]. *Anisomeles* R. Brown. *Taxon* 20(2-3) : 388-389. Conservation not approved.

Basilicum Moench.

LAB 40 Mc Vaugh, R. 1972

Report of the Committee for Spermatophyta : Conservation of generic names : 15. Proposal 310 [7364]. *Moschosma* Reichenbach *Taxon* 21(4) : 434. Correct name is *Basilicum*.

Calamintha Mill.

LAB 41 De Wolf, G. P. 1954

Notes on cultivated Labiataes. 4. *Satureja* and some related genera. *Baileya* 2 : 143-150.

Chelonopsis Miq.

LAB 42 Mukherjee, S. K. 1942

The genus *Chelonopsis* Miq., recorded for the first time from India. *Journ. Indian Bot. Soc.* 21 : 313-317, 1 fig. Systematic treatment of 12 spp. from China & Japan. *C. albiflora* var. *cashmerica* var. nov. from Kashmir.

Coleus Lour.

LAB 43 Bhargava, H. R. & Shukla, J. S. 1959

Pollen grains of *Coleus aromaticus* Benth. *Bull. Soc. Univ. Saugar, India* 9(1-2) : 34-35.

LAB 44 Codd, L. E. 1971

Generic limits in *Plectranthus, Coleus* and allied genera. *Mitt. Bot. Staatssamml. Munchen* 10 : 245-252. Chrom. nos.

LAB 45 Cramer, L. H. 1978

A revision of *Coleus* (Labiatae) in Sri Lanka (Ceylon). *Kew Bull.* 32 : 551-561, 3 fig. The delimitation from *Plectranthus* is accepted.

LAB 46 Jacob, K. C. 1941

A new species of *Coleus. Journ. Bombay Nat. Hist. Soc.* 42 : 320-322. pl. 1. *C. vettiveroides* from Tamil Nadu, descr., discussion.

LAB 47 Willemse, R. H. 1979

New combinations and a new name for Sri Lankan *Coleus* species (Labiatae). *Blumea* 25 : 507-511. List of 11 spp.

Colquhounia Wall.

LAB 48 Kingdon-Ward, F. 1940

The genus *Colquhounia*. *Gard. Chron.* III, 108 : 194, fig. 88, 89. A general account.

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Noviciae Indicae-6. A review of the genus *Colquhounia*. *Journ. Asiat. Soc. Beng.* n. ser. II. 62 : 30-38.

Dracocephalum Linn.

LAB 50 De Wolf, G. P. Jr. 1955

Notes on cultivated labiates-7. *Dracocephalum*. *Baileya* 3 : 115-126, fig. 44-48. Key to cultivated spp.

LAB 51 Hay, T. 1937

Dracocephalum heterophyllum Benth. *Gard. Chron.* 101 : 203, fig. 78. Native of W. Himalayas, Tibet.

LAB 52 Hiltebrandt, J. 1805

Generis Dracocephali, i-xxii, 1-80, pl. 1-13. Key, descr. 19 spp.

LAB 53 Keenan, J. 1957

Notes on *Dracocephalum*. *Baileya* 5 : 25-44, fig. 9-16. Critical notes.

LAB 54 Kingdon-Ward, F. 1936

Dracocephalum hemsleyanum. *Gard. Chron.* III, 100 : 176-177.

LAB 55 Sealy, J. R. 1944

Dracocephalum bullatum. *Curtis's Bot. Mag.* 164 : pl. 9657, 1 fig. Native of Yunnan.

LAB 56 Smith, W. W. & Forrest, G. 1916

New garden dracocephalums from China. *Trans. Bot. Soc.* (*Edinb.*) 27 : 89-93.

Dysophylla Bl.

LAB 57 Airy-Shaw, H. K. 1967

The genus *Dysophylla* Blume : a nomenclatural note. *Taxon* 16 : 189-190.

LAB 58 Mazumdar, N. C. 1977 (1978)

On the nomenclature of some Indian and Burmese species of *Dysophylla* Bl. (Lamiaceae). *Journ. Bombay Nat. Hist. Soc.* 74(2) : 384-386. The name *Eusteralis* is adopted for all verticillate leaved spp. of *Dysophylla*. (refer Panigrahi, 1976)

Eremostachys Bunge

LAB 59 Regel, E. 1886

Monographia generis Eremostachys 1-48, pl. 1-9.

Eusteralis Rafin

LAB 60 Panigrahi, G. 1976

Taxonomic notes on certain taxa of asiàtic angiosperms. *Phytologia* 32(6) : 473-479. [refer Mazumdar, (1977) 1978 ; refer Pren, 1982].

Galeopsis Linn.

LAB 61 Briquet, J. 1893

Monographie du genre *Galeopsis*. *Mem. Cour. Mem. Sav. etr. Acad. Roy Sci. Belg.* i-xii, 1-323, 51 fig.

LAB 62 Briquet, J. 1893

Additions et corrections a' la monographie du genre *Galeopsis*. *Bull. Herb. Boiss.* 1 : 387-392. The occurrence of *G. tetrahit* L. from Kashmir.

LAB 63 Briquet, J. 1896

Fragmenta Monographiae Labiatorum. *Bull. Herb. Boiss.* 2 : 719-724.

LAB 64 Muntzing, A. 1928

Chromosome number, nuclear volume and pollen grain size in *Galeopsis*. *Hereditas* 10 : 241-260. Chrom. nos.

Geniosporum Wall. ex Benth.

LAB 65 Ramamurthy, K. & Sebastine, K. M. (1964) 1965

A new variety of *Geniosporum prostratum* from Madras State. *Bull. Bot. Surv. India* 6 : 325-326. New variety *G. prostratum* var. *longiracemosum*, descr.

Gomphostemma Wall.

LAB 66 Prain, D. 1891

An account of the genus *Gomphostemma* Wall. *Ann. Roy. Bot. Gard. Calcutta* 3 : 227-273, t. 75-105.

Hyptis Jacq.

LAB 67 Epling, C. 1936

Notes on the distribution of *Hyptis* in the Old World. *Kew Bull. Misc. Inf.* 1936 : 278-280.

Lagochilus Bunge

LAB 68 Wagner, R. 1902

Beitrage zur Kenntniss der Gattung *Lagochilus* Bge. *Verh. Zool. Bot. Ges. Wien.* 52 : 540-562, fig. 1-11. Critical taxonomic notes.

Lavandula Linn.

LAB 69 Chayton, D. A. 1937

A taxonomic study of the genus *Lavandula*. *Journ. Linn. Soc. London* (Bot.) 51 : 153-204.

Leucas R. Br.

LAB 70 Billore, K. V. & Hemadri, K. 1970

Leucas deodikarii Billore et Hemadri, a new species of

Lamiaceae from Sahyadri range, Maharashtra State. *Indian Forester* 96 : 858-860, 3 fig. Descr., notes.

LAB 71 Chandrabose, M. & Srinivasan, S. R. (1975) 1978

Leucas lavanduliifolia Rees and its varieties (Lamiaceae) in South India. *Bull. Bot. Surv. India* 17 : 164-167. var. *nagalapuramiana* Chandr. & Srin. from Andhra Pradesh ; key to 3 varieties.

LAB 72 Subba Rao, G. V. & Kumari, G. R. (1968) 1969

A new species of *Leucas* from Andhra Pradesh. *Bull. Bot. Surv. India* 10 : 358-359. *Leucas mukerjiana,* descr.

LAB 73 Subba Rao & Kumari, G. R. (1969) 1972

A new variety of *Leucas mollissima* Wall. from Andhra Pradesh. *Bull. Bot. Surv. India* 11 : 452-454. var. *sebastiana* descr.

Lycopus Linn.

LAB 74 Henderson, N. G. A. 1962

A taxonomic revision of the genus *Lycopus. Amer. Midl. Nat.* 68 : 95-138.

Mentha Linn.

LAB 75 Ammal, E. K. J. & Sreenivasan, T. V. 1971

Observation on the cytology of the Madras mint. *Curr. Sci.* 40 : 544-545. Chrom. nos.

LAB 76 De Wolf, G. P. 1954

Notes on cultivated Labiates 2. *Mentha. Baileya* 2 : 3-11.

LAB 77 Harley, R. M. & Brighton, C. A. 1977

Chromosome number in the genus *Mentha* L. *Bot. Journ. Linn. Soc.* 74(1) : 71-96.

LAB 78 Ruttle, Mable, L. 1931

Cytological and embryological studies on the genus *Mentha. Gartenbau wissenchaft* 4 : 428-468.

LAB 79 Sobti, S. N. 1965

Chromosome numbers in species of *Mentha*. *Proc. Indian Acad. Sci.* 62(3) : 145-148.

LAB 80 Sobti, S. N. 1975

Origin of *Mentha piperita* Linn. in relation to peppermint oils. *In* : P. Kachroo, *ed., Advancing Frontiers in Cytogenetics in evolution and improvement of Crops*. 224-230. Considered the origin of *Mentha piperita* (2n = 72) as the natural hybrid between *M. spicata* Linn. (2n =48) × *M. aquatica* Linn. (2n = 96).

Nepeta Linn.

LAB 81 Gill, 1972

A note on the cytology of some West Himalayan species of the genus *Nepeta*. *Insula* No. 6 : 30-36. Chrom. nos.

Ocimum Linn.

LAB 82 Bose, R. B. & Chowdhury, J. K. 1962

A comparative study of the cytotaxonomy, palynology, physiology of diploid and polyploid plants as *Ocimum kilimandscharicum* Guerke and their yield of raw material and volatile contents. *Caryologica* 15(2) : 435-454.

LAB 83 Darrah, H. H. 1974

Investigation of the cultivars of the basils (*Ocimum*) *Econ. Bot.* 28(1) : 63-67.

LAB 84 Gupta, M. L. & Bhambie, S. 1978

Studies in Lamiaceae : 4. Foliar appendages in *Ocimum* L. and their taxonomic significance. *Proc. Indian National Sci. Acad.* B : 44(3) : 154-160. Key.

Origanum Linn.

LAB 85 De Wolf, G. P. 1954

Notes on cultivated Labiataes 3. *Origanum* and its relatives. *Baileya* 2 : 57-66

Orthodon Benth. & Oliver

LAB 86 Nagai, Isaburo 1923

Notes on the species hybrids in the genus *Mosla*. *Jap. Journ. Bot.* 1 : 93-104, pl. 8-9, fig. 1-4. Reductions of Asiatic spp.

Orthosiphon Benth.

LAB 87 Sleesen, E. H. L. van der 1959

Revision of Malaysian *Orthosiphon*. *Reinwardtia* 5 : 37-43. 2 spp. recognised, *O. aristatus* and *O. thymifolius* (Roth) Sleesen, distr., ecol., uses, notes.

Paraphlomis Prain

LAB 88 Li, Hsi-Wen 1965

Revisio generis Paraphlomis Labiatarum sinensium. *Acta. Phytotax. Sin.* 10 : 57-74.

Plectranthus L' Herit

LAB 89 Blake, S. T. 1971

A revision of *Plectranthus* in Australasica. *Contr. Queensl. Herb.* 9 : 1-20, 36 fig. Key to 17 spp.

LAB 90 Bullock, A. A. & Killick, D. J. B. 1957

On the typification of *Plectranthus*. *Taxon* 6 : 239.

LAB 91 Codd, L. E. 1975

Plectranthus (Labiatae) and allied genera in southern Africa. *Bothalia* 11 : 371-442, 46 photo. 40 spp., systematic notes on *Coleus*, *Rabdosia* and *Solenostemon*.

LAB 92 Launert, E. 1968

Miscellaneous notes on Labiatae. *Mitt. Bot. Staatssamml. Munchen* 7 : 295-307, 3 pl.

Pogostemon Desf.

LAB 93 Anonymous 1888

Patchouli. (*Pogostemon patchouli* var. *suavis*). *Kew Bull. Misc. Inf.* 1888 : 71-74.

LAB 94 Anonymous, 1908

Patchouli. *Kew Bull. Misc. Inf.* 1908 : 78-82. General notes.

LAB 95 Bakhuizen van den Brink, R. C. & van Steenis, C. G. G. J. 1968

A note on *Pogostemon* Desf. and *Dysophylla* Bl. *Taxon* 17 : 235-236.

LAB 96 El-Gazzar, A. & Watson, L. 1967

Consequences of an escape from floral minutiae and floristics in certain Labiatae. *Taxon* 16 : 186-189.

LAB 97 Laufer, B. 1918

Malabathron. *Journ. Asiat.* XI, 12 : 1-49, fig. 1-12.

LAB 98 Panigrahi, G. 1976

Taxonomic notes on certain taxa of Asiatic angiosperms. *Phytologia* 32(6) : 473-479. Taxonomic notes on *Eusteralis* and *Pogostemon*.

LAB 99 Prain, D. 1908

Patchouli. *Kew Bull.* 1908 : 78-82.

LAB 100 Wunderlich, R. 1963

The Pogostemoneae—a debatable group of Labiatae. *Journ. Ind. Bot. Soc.* 42A : 321-330, 7 fig.

Rabdosia Hassk.

(*Isodon* is reduced)

LAB 101 Hara, H. 1972

On the Asiatic species of the genus *Rabdosia* (*Labiatae*). *Journ. Jap. Bot.* 47(7) : 193-203. The species of *Isodon* (*Plectranthus* sect. *Isodon*) occurring in India transferred to *Rabdosia*.

LAB 102 Murata, G. 1973

Short nomenclatural notes on *Rabdosia*. *Acta Phytotax. Geobot.* 25(4-6) : 185.

Salvia Linn.

LAB 103 Bhattacharya (nee Pal), S. 1978

Study of some members of the genus *Salvia* with reference to the cytological behaviour. *Cytologia (Japan)* 43(2) : 317-324.

LAB 104 Emboden, W. A. 1964

Pollen morphology of the genus *Salvia* sect. *Audibertia*. *Pollen et Spores* 6(2) : 527-536.

LAB 105 Emboden, W. A. & Lewis, H. 1967

Terpenes as taxonomic characters in *Salvia* sect. *Audibertia*. *Brittonia* 19 : 152-160. 19 spp. recognised on the basis of terpene composition.

LAB 106 Epling, Carl Clauson 1938-39

A revision of *Salvia* : subgenus *Calosphace*. *Fedde Repert Sp. Nov.* 110 : 1-380.

LAB 107 Henderson, D. M. *et al.* 1968

Pollen morphology of *Salvia* and some related genera. *Grana. Palynologica* 8(1) : 70-85.

LAB 108 Singh, V., Sharma, M. & Jain, D. K. (1974) 1977

Trichomes in *Salvia* (Labiatae) and their taxonomic significance. *Bull. Bot. Surv. India* 16(1-4) : 27-34. Key. 17 types of glandular & non-glandular trichomes.

LAB 109 Stibal, E. 1934

Labiatae-*Salvia* L. (Nebst Revision der Chinesichen und Ostbirmanischen Arten der Gattung). *In : Plantae sinensis a Dre H. Smith annis 1921-1922 et 1924 lectae. Act. Hort. Gothob.* 9 : 101-145, pl. 1, 2. 2 fig. Key, descr. & enumeration.

LAB 110 Stibal, E. 1936

Revision der indischen und tibetanischen Arten der Gattung *Salvia* L. *Repert. Sp. Nov. Fedde* 39 : 173-186. Distr., descr. of several new varieties.

LAB 111 Sun, Yon-Zai 1936

[*Salvia* in China]. *Journ. Bot. Soc. China* 3 : 845-872, 1 pl. A systematic treatment.

Satureja Linn.

LAB 112 De Wolf, G. P. 1954

Notes on cultivated Labiataes 4. *Satureja* and some related genera. *Baileya* 2 : 143-150.

LAB 113 Epling, G. G. 1927

Synopsis of the genus *Satureja*. *Ann. Missouri Bot. Gard.* 14 : 47-86.

Scutellaria Linn.

LAB 114 Epling, C. 1942

The American species of *Scutellaria*. *Univ. Calif. Publ. Bot.* 20 : 1-146.

Stachys Linn.

LAB 115 Bloom, A. 1977

Stachys : *Garden* (*London*) 102(12) : 502-503.

Teucrium Linn.

LAB 116 Mukherjee, J. 1972

Pollen morphological affinity of *Teucridium* (Verbenaceae) and *Teucrium* (Labiatae). *Sci. Cult.* 38 : 143-144.

LAB 117 Nabli, M. A. 1970

Contribution a' l'etude palynologique du genre *Teucrium* L. (Labiatees). Interpretation de la structure de l' exine. *C. R. Acad. Sci. D. Fr.* 270(25) : 3033-3036.

LAB 118 Rechinger, K. H. 1941

Monographische studie uber *Tecucrium* sect. *Chamaedrys*. *Bot. Archiv*. 42 : 335-420.

Thymus Linn.

LAB 119 Jalas, J. 1973

Thymus subsect. *Pseudomarginati* in the Himalayas and adjoining western mountain ranges and in Caucasia. *Ann. Bot. Fenn*. 10(2) : 104-122.

LAB 120 Ronniger, K. 1924

The genus *Thymus*. *Rep. Bot. Soc. & E. C*. 7 : 226-239.

LAB 121 Sorsa, P. 1966

Pollen morphological studies in the genus *Thymus* L. (Labiatae). *Ann. Bot. Fenn. Helsinki* 3(2) : 140-146.

ADDITIONS : GENERAL

LAB 122 Bir, S. S. & Saggoo, M. I. S. 1981

Cytopalynology of certain Acanthaceae and Labiatae. *Journ. Palynol*. 17 : 93-102.

LAB 123 Bir, S. S. & Saggoo, M. I. S. 1982

Cytological studies on family Labiatae from Garhwal Himalayas. *In* : Paliwal, G. S. *ed., The Vegetational Wealth of the Himalaya*. New Delhi, 471-482.

LAB 124 Cronquist, A. 1981

An integrated system of classification of flowering plants. Houghton, Mifflin, Boston.

LAB 125 Dahlgren, R. 1983

General aspects of angiosperm evolution and macrosystematics. *Nord. Journ. Bot*. 3 : 119-149.

LAB 126 Gill, L. S. & Chinnappa, C. C. 1982

Pollen morphology of the West Himalayan Labiatae. *Bangladesh Journ. Bot*. 11(2) : 107-123.

LAB 127 Seigler, D. S. 1981

Secondary metabolites and plant systematics. *In* : Conn, E. E. *ed., The biochemistry of Plants, A comprehensive treatise* VII, *Secondary plant products.* Academic, New York, 139-176.

LAB 128 Hooker. J. D. 1885

Labiatae. *In* : Hooker, J. D. *ed., Fl. Brit. India* 4 : 604-705.

Becium Lindl.

LAB 129 Harley, R. M. 1983

Becium Lindl., a genus of Labiatae new to India. *Kew Bull.* 38(1) : 56.

Coleus Lour.

LAB 130 Singh, N. P. & Sharma, B. D. 1983

A name change for *Coleus vettiveroides* Jacob (Lamiaceae). *Journ. Bombay Nat. Hist. Soc.* 79(3) : 712.

Gomphostemma Wall.

LAB 131 Vivekananthan, K., Gopalan, R. & Ansari, R. 1983

A new species of Gomphostemma (Labiatae) from Kerala, India. *Kew Bull.* 38(2) : 189-190.

Leucosceptrum Smith

LAB 132 Kitamura, S. & Murata, G. 1962

The union of *Leucosceptrum* and *Comanthosphace. Acta Phytotax. Geobot. Kyoto* 20 : 165-171.

Ocimum Linn.

LAB 133 Singh, T. P. 1978

Chromosome studies in *Ocimum. Curr. Sci.* 47 : 915.

LAB 134 Singh. T. P. & Sharma, A. K. 1981

Cytotypes and phenotypes in *Ocimum sanctum*—their characteristics. *Cytologia* 46 : 723.

Salvia Linn.

LAB 135 Haque, M. S. 1983

Chiasma frequency and nucleolar behaviour in four species of *Salvia* L. *Cytologia (Japan)*. 48(2) : 259-266. chrom. nos.

LAMIACEAE-refer LABIATAE

LARDIZABALACEAE

The family Lardizabalaceae is included in the order Ranunculales by Cronquist, Dahlgren, Engler and Takhtajan, in the order Berberidales by Hutchinson and Thorne. It is treated as part of the family Berberidaceae by Bentham & Hooker.

The family Lardizabalaceae is characterised by its climbing shrubaceous habit, alternate palmate leaves, unisexual flowers, monoecious or dioecious, floral parts consisting of 3-merous perianth in two whorls, 3+3 androecium and three carpelled superior ovary and many ovules arranged in longitudinal rows on lateral walls. The rudimentary staminodes are seen in female flowers and rudimentary pistillode is seen in male flowers.

The family is represented in India by the following genera : *Decaisnea, Holboellia, Parvatia, Stauntonia.*

For taxonomic revisions refer Hemsley (1908), Jafri (1974) ; for pollen morphology refer Kumazawa (1937).

According to Takhtajan (1969) the Lardizabalaceae is undoubtedly the most primitive family in the order Ranunculales. "The most primitive genus of this family is *Decaisnea,* the two species of which are erect shrubs with pinnate leaves and polygamous flowers. It differs from the remaining genera also in the more primitive structure of the vascular system of its stem. *Decaisnea* occurs in the eastern Himalayas and in W. China" The genus *Holboellia* occurs in the eastern Himalayas, China and Tonkin. The genus *Stauntonia* occurs in Assam, in South China, Hainan, Taiwan Laos, Vietnam, Korea ad Japan. The genus *Parvatia* occurs in Assam, Bangladesh,

South China and in Tonkin. The above mentioned genera are with monoecious flowers. The presence of genera *Boquila* and *Lardizabala* having dioecious flowers in Chile indicate the family Lardizabalaceae might have originated in West Gondwanaland.

GENERAL

LAR 1 Decaisne, J. 1839

Memoire sur la famille des Lardizabalees. *Arch. Mus. Hist. Nat.* (*Paris*) 1 : 143-213. pl. 10-13. A systematic and morphological study.

LAR 2 Decaisne, J. 1839

Enumeratio Lardizabalearum. *Ann. Sci. Nat. Bot.* II, 12 : 99-108.

LAR 3 Ernst, Wallace R. 1964

The genera of Berberidaceae, Lardizabalaceae and Menispermaceae in the South Eastern United States. *Journ. Arn. Arb.* 45(1) : 1-35. Lardizabalaceae 21-22 pp.

LAR 4 Gagnepain, F. 1908

Revision des Lardizabalees asiatiques de l'herbier du Museum. *Bull. Mus. Hist. Nat.* (*Paris*) 14 : 64-70.

LAR 5 Hemsley, W. B. 1908

Asiatic Lardizabalaceae. *Kew Bull.* 1908 : 459-461. *Decaisnea, Holboellia, Parvatia, Stauntonia* considered.

LAR 6 Herail, J. & Blottiere, R. 1886

Note sur les affinites des Lardizabalees. *Bull. Soc. Bot. Fr.* 33 : 521-524.

LAR 7 Jafri, S. M. H. 1974

Lardizabalaceae. *Fl. W. Pakistan* 60 : 1-4, 1 fig., 1 map.

LAR 8 Kumazawa, M. 1937

Pollen morphology in Ranunculaceae, Lardizabalaceae and Berberidaceae. *Journ. Jap. Bot.* 8 : 19-46.

LAR 9 Prantl, K. 1888

Lardizabalaceae. *In* : Engler & Prantl, *Pflanzenf.* III, 2 : 67-70. 1888.

LAR 10 Rehder, A. & Wilson, E. H. 1913

Lardizabalaceae. *In* : Sarg., *Pl. Wils.* 1 : 344-352.

Decaisnea Hook. f. & Thoms.

LAR 11 Balakrishnan, N. P. 1966

Proposal to conserve the generic name 2551. *Decaisnea* Hook. f. & Thoms. (Lardizabalaceae) Conserved. *Taxon* 15 : 334.

LAR 12 Swamy, B. G. L. 1953

Some observations on the embryology of *Decaisnea imignes* Hook. et Thoms. *Proc. Natl. Inst. Sci. India* 19(2) : 307-310.

Stauntonia DC.

LAR 13 Wu, Y. C. 1936

Uber die *Stauntonia* DC. *Notizbl. Bot. Gart. Berlin* 13 : 364-376.

LAURACEAE

(includes Cassythaceae)

The family Lauraceae includes about 32 genera and 2500 species with main centre of distribution in S. E. Asia and Brazil.

The family is included in the order Laurales by Dahlgren, Hutchinson and Takhtajan, in the order Magnoliales by Cronquist and Engler, in the order Annonales by Thorne and in the order Daphnales by Bentham & Hooker.

The Lauraceae is differentiated by its exstipulate leaves, aromatic bark and foliage, the 3-merous or in multiples of three floral parts, undifferentiated sepals and petals, stamens in three or four whorls, adnate to the base of the perianth tube, the anthers 2 or 4-loculed, dehiscing by valves, superior 1-loculed ovary with single pendulous

anatropous ovule, fruit berry or drupaceous and the seeds are without endosperm.

Kostermans (1957) classified the family into the following subfamilies and tribes : The subfamilies Lauroideae (arborescent and with normal leaves) and Cassythoideae (Parasitic twiners without proper leaves). Under the subfamily Lauroideae the following tribes are recognised : Perseeae, Cinnamomeae, Laureae, Cryptocaryeae and Hypodaphnideae.

Though the genus *Cassytha,* a parasitic twiner in a mainly woody family appears to be anachronistic, it resembles other lauraceous genera in its floral morphology and seed structure.

On the basis of anatomical study Stern (1954) indicated that the Lauraceae is closely related to the Hernandiaceae (sensu lato) and Monimiaceae. Airy-Shaw mentions that on the basis of anther dehiscence, presence of staminodes and other anatomical features, the family is closely related to Antherospermataceae, Gomortegaceae and Gyrocarpaceae.

The lauraceous flora of India is represented by the following genera : *Actinodaphne, Alseodaphne, Apollonias, Beilschmiedia, Cinnamomum, Cryptocarya, Dehaasia, Endiandra, Lindera, Litsea, Neocinnamomum, Neolitsea, Persea, Phoebe, Potameia.*

The genus *Laurus* (*L. nobilis* L.) is cultivated in India.

For recent taxonomic revisions refer Allen (1937, 1939, 1942), Kostermans (1936, 1938, 1952, 1957, 1964, 1969, 1970, 1971, 1974) ; for chemosystematics refer Gottlieb (1972) ; for pollen studies refer Pal (1977) ; for chromosome studies refer Okada & Tanaka (1975).

GENERAL

LAU 1 Allen, C. K. 1937-1939

Studies in the Lauraceae I. Chinese and Indo-chinese species of *Litsea, Neolitsea* and *Actinodaphne. Ann. Missouri Bot. Gard.* 25 : 361-434. 1937 ; II. Some Critical new species of *Cinnamomum* and *Neocinnamomum. Journ. Arn. Arb.* 20 : 44-63. 1939.

LAU 2 Allen, C. K. 1942

Studies in the Lauraceae V. Some eastern Asiatic species of *Beilschmiedia* and related genera. *Journ. Arn. Arb.* 23 : 444-463. Key to the genera of *Dehassia, Cryptocarya, Endiandra, Lauromerrillia* and *Syndiclis.*

LAU 3 Chun, W. Y. 1925

Preliminary notes to the study of the Lauraceae of China. *Contr. Biol. Lab. Sci. Soc. China* 1 : 1-69. Description and notes of Chinese genera with keys.

LAU 4 Gamble, J. S. 1925

New Lauraceae from Southern India. *Kew Bull.* 1925 : 126-132.

LAU 5 Gottlieb, O. R. 1972

Chemosystematics of the Lauraceae. *Phytochemistry* 11(5) : 1537-1570.

LAU 6 Kamikoti, S. 1934

Die geographische Verbreitung der Lauraceen gattungen. *Trans. Nat. Hist. Soc. Formosa* 24 : 437-449. Tabulated data.

LAU 7 Kostermans, A. J. G. H. 1936-1938

Revision of the Lauraceae I-III. *Meded. Bot. Mus. Utrecht* 25 : 12-50. 1936 ; 42 : 500-604. 1937 ; 43 : 46-119. 1938.

LAU 8 Kostermans, A. J. G. H. 1952

A historical survey of Lauraceae I. *Journ. Sci. Res. (Indonesia)* 1 : 83-95 ; II. 1 : 113-127 ; III. 1 : 141-159. A critical review.

LAU 9 Kostermans, A. J. G. H. 1957

Lauraceae. *Reinwardtia* 4 : 193-256, 1 fig. System of family & keys ; descr. of subfamilies, tribes, subtribes.

LAU 10 Kostermans, A. J. G. H. 1964

Bibliographia Lauracearum. Bogor i-xvi, 1-1450.

LAU 11 Kostermans, A. J. G. H. 1968

Materials for a revision of Lauraceae I. *Reinwardtia* 7(4) : 291-356. New comb. in *Alseodaphne khasyana* (Meissn.) Kosterm.

LAU 12 Kostermans, A. J. G. H. (1968) 1969

Miscellaneous Botanical notes 5 : *Bull. Bot. Surv. India* 286-288. The following names proposed by Balakrishnan in *Journ. Bombay Nat. Hist. Soc.* 63 : 330. 1966 are considered superfluous : *Litsea thwaitesii* Balak. ; *Litsea cuipala* (D. Don) Balak.

LAU 13 Kostermans, A. J. G. H. 1970

Materials for a revision of Lauraceae III. *Reinwardtia* 8 : 21-196, 68 fig. 67 new spp. in various genera.

LAU 14 Kostermans, A. J. G. H. 1971

Novelties in Ceylonese Lauraceae. *Ceyl. Journ. Sci. Biol. Sci.* 9 : 50-57, 2 fig. New spp. in *Litsea, Actinodaphne* and *Neolitsea.*

LAU 15 Kostermans, A. J. G. H. 1974

Materials for a revision of Lauraceae 4. *Reinwardtia* 9(1) : 97-115. *Actinodaphne longipes* Kostermans from Assam.

LAU 16 Lecomte, H. 1913

Lauracees de Chine et d'Indo-China. *Nouv. Arch. Mus. Hist. Nat. (Paris)* V, 5 : 43-120. pl. 3-9.

LAU 17 Lecomte, H. 1914

Lauracees nouvelles d' Extreme-Orient. *Not. Syst. Lecomte* 3 : 9-13.

LAU 18 Li, H.-W. 1979

[The geographical distribution of Chinese Lauraceae plants]. *Acta Phytotax. Sin.* 17(3) : 24-40. In Chinese.

LAU 19 Liou, Ho 1932

Contribution a' letude Systematique et phytogeographique

des Lauracees de Chine et d' Indochine. These, Paris 1-207. Monographic.

LAU 20 Liou, Ho (1933) 1934

Lauracees de Chine et d' Indo Chine. Contribution a l' etude systematique et phytogeographique, i-xii, 1-226. A critical study of all spp.

LAU 21 Meissner, C. F. 1864

Lauraceae. *In* : DC., *Prodr.* 15(1) : 1-260.

LAU 22 Mez, C. 1892

Spicilegium Laureanum Arb. aus den. *Kgl. Bot. Gart. Breslau* I, Heft 1 : 71-166.

LAU 23 Nees von Esenbeck, C. G. 1831

Laurinae Indiae orientalis. *In* : N. Wallich, *Plantae Asiaticae rariores* 2 : 58-76.

LAU 24 Nees von Esenbeck, C. G. 1836

Systema Laurinarum i-ix, 1-720. Monographic.

LAU 25 Okada, H. & Tanaka, R. 1975

Karyological studies in some species of Lauraceae. *Taxon* 24(2-3) : 271-280. Chrom. nos.

LAU 26 Pal, S. (1976) 1977

Pollen grains of some Lauraceae. *Journ. Palynol.* 12(1-2) : 55-62.

LAU 27 Pal, S. 1978

Epidermal studies in some Indian Lauraceae and their taxonomic significance. *Acta Bot. Indica* 6 : Suppl. 68-73.

LAU 28 Stern, W. L. 1954

Comparative anatomy of xylem and phylogeny of Lauraceae. *Trop. Woods* 100 : 1-72.

LAU 29 Wood, Carrol E. Jr. 1958

The citation of some genera of the Lauraceae. *Journ. Arn. Arb.* 39 : 213-215.

Alseodaphne Nees

LAU 30 Kostermans, A. J. G. H. 1973

A synopsis of *Alseodaphne* Nees (Lauraceae). *Candollea* 28(1) : 93-136. *A. habotricha* Kostermans and *A. himalayana* Kostermans new spp. for India.

Cinnamomum Schaeff.

LAU 31 Dewey, L. H. 1897

The Camphor tree (*Cinnamomum camphora* Nees & Eberm.). *US Dept. Agr. Div. Bot. Circ.* 12 : 1-8, fig. 1, 2.

LAU 32 Li, H.-W. 1978

[Materiae ad floram Lauracearum sinicarum : 1]. *Acta Phytotax. Sin.* 16(2) : 90-92. In Chinese.

LAU 33 Kostermans, A. J. G. H. 1962

Miscellaneous botanical notes-4. *Reinwardtia* 7 : 141-146.

LAU 34 Kostermans, A. J. G. H. 1976

The identity of Burman's Catte-corande (*Cinnamomum spinosum*). *Ceyl. Journ. Sci. Biol. Sci.* 12(1) : 1.

LAU 35 Kostermans, A. J. G. H. 1980

A note on two species of *Cinnamomum* (Lauraceae) described in Hortus Indicus Malabaricus. *In* : Manilal (*ed.*), *Botany, History of Hortus Malabaricus* 163-167.

LAU 36 Miquel, F. A. W. 1864

Cinnamoni generis revisio. *In* : Miquel, *Ann. Mus. Bot. Lugd.-Bat.* 1 : 254-270. Key, descr. and note.

LAU 37 Petiaev, S. I. 1930

[The Camphor tree]. *Bull. Appl. Bot. & Pl. Breed.* 24(4) : 327-332, fig. 1-29, 4 text maps. In Russian ; notes on *Cinnamomum camphore* (Linn.) Nees & Eberm.

LAU 38 Wilson, E. H. 1920

Camphor (*Cinnamomum camphora* Nees and Ebermaier). *Journ. Arn. Arb.* 1 : 239-242. Economic notes.

Dehaasia Bl.

LAU 39 Kostermans, A. J. G. H. 1973

A synopsis of the genus *Dehaasia* Bl. (Lauraceae). *Bot. Jahrb.* 93(3) : 424-480. Descr. of new spp. & new comb.

LAU 40 Kostermans, A. J. G. H. 1977

Notes on Asian Lauraceae. [Notes sur des Lauracees asiatiques]. *Adansonia* 17(1) : 89-93. *Dehaasia assamica* Kostermans.

Litsea Lamk.

LAU 41 Allen, C. K. 1941

Some critical and new species of Asiatic *Lindera,* with occasional notes on *Litsea. Journ. Arn. Arb.* 22 : 1-31.

LAU 42 Kostermans, A. J. G. H. 1977

Miscellaneous botanical notes. *Ceylon Journ. Sci.* (*Bio. Sci.*) 12 : 125-138. *Litsea insignis* Gamble is antedated by *L. insignis* (Bl.) Boerlage ; *Litsea keralana* Kosterm.

Neolitsea (Benth.) Merr.

LAU 43 Merrill, E. D. 1948

Neolitsea (Benth.) Merrill, nomen conservandum propositum. *Journ. Arn. Arb.* 29 : 198-201.

Persea Mill.

LAU 44 Airy-Shaw, H. K. 1947

Persea dumicola (W. W. Sm.) Airy-Shaw. *Hook. Icon. Pl.* 35 : pl. 3473. *Alseodaphne dumicola* of Yunnan is transferred ; a new variety from N. E. India.

LAU 45 Kostermans, A. J. G. H. 1962

The Asiatic species of *Persea* Mill. *Reinwardtia* 6 : 189-194. The Asiatic genus *Machilus* is merged with *Persea.*

Syndiclis Hook. f.

LAU 46 Li, Hsi-wen 1979

Notes on the taxonomy and distribution of the genus *Syndiclis* Hook. f. of Lauraceae and to discuss the characteristic of its area type. *Acta Bot. Yunnanica* 1(2) : 11-16. 9 spp. in China and 1 sp. in Bhutan and it is distinguished from the genus *Potameia*.

ADDITIONS : GENERAL

LAU 47 Hooker, J. D. 1886

Laurineae. *In* : Hooker, J. D. *ed., Fl. Brit. India* 5 : 116-189.

LAU 48 Hutchinson, J. 1964

Lauraceae. *The Genera of Flowering Plants* 1 : 125-143.

Cinnamomum Schaeffer

LAU 49 Kostermans, A. J. G. H. 1984

The South Indian species of *Cinnamomum* Schaeffer (Lauraceae). *Bull. Bot. Surv. India* 90-131. 12 endemic species in S. India ; *C. filipedicellatum, C. goaense, C. keralaense* and *C. walaiwarense* are described for the first time, detailed notes on *Cinnamomum malabatrum* (Burm. f.) Bl., source of bark *Cassia lignea and malabatri folium*.

LECYTHIDACEAE

(Refer also Barringtoniaceae)

The family Lecythidaceae is included in the order Lecythidales by Cronquist, in the order Myrtales by Hutchinson and Takhtajan, in the order Myrtiflorae by Engler, in the order Theales by Dahlgren and Thorne. However it is retained in the family Myrtaceae by Bentham & Hooker. Airy-Shaw recognised Barringtoniaceae as a separate family. Cronquist, Engler, Hutchinson considered Barringtoniaceae as a part of the family Lecythidaceae. In this work Airy-Shaw's delimitation of the families Barringtoniaceae and Lecythidaceae is accepted.

The Lecythidaceae is characterised by exstipulate leaves, perigynous or epigynous flowers with 4-6 merous sepals and petals, numerous stamens in several whorls, stamens united at base and in some cases (*Couroupita*) due to one sided development of staminal base it appears as hooded, inferior multilocular ovary with one to many ovule in each locule and fruit a berry or woody capsule.

The family is represented in India by the following cultivated genera : *Bertholletia* and *Couroupita*.

LCY 1 Knuth, R. 1939

Lecythidaceae. *In* : Engler, *Pflanzenr.* 105(IV, 219a) : 1-146.

LCY 2 Miers, J. 1874

On the Lecythidaceae. *Trans. Linn. Soc. Lond.* 30 : 157-318.

LCY 3 Muller, J. 1972

Pollen morphological evidence for subdivisions and affinities of Lecythidaceae. *Blumea* 20 : 350-355.

LCY 4 Pichon, M. 1946

Le genre Combretodendron et les Lecythidacees. *Not. Syst.* 12 : 192-197.

Couroupita Abl.

LCY 5 Jacques, F. 1965

Morphologie du pollen et des ovules de *Couroupita guianensis* Aubl. (Lecythidaceae). *Pollen et Spores* 7(2) : 175-180.

LEEACEAE

(Refer also Vitaceae)

The family Leeaceae is included in the order Rhamnales by Cronquist, Engler and Takhtajan. It is retained in the family Vitaceae by Bentham & Hooker, Hutchinson and Thorne. Dahlgren included the family Leeaceae in the order Rhamnales indicating that

its position is uncertain. Dahlgren (1983) included Leeaceae and Vitaceae in a separate order Vitales.

The Leeaceae is characterised by exstipulate simple to compound leaves, corymbose inflorescence, 5-4-merous floral parts, 5-4 stamens adnate to the corolla, 5-lobed staminal tube with lobes alternating to the stamens, superior 3-8-carpelled ovary with one ovule per locule. The fruit is 3-8-loculed berry and the seeds are with ruminate endosperm.

The Leeaceae is allied to Vitaceae but differs in having exstipulate leaves, 3-8 carpellate ovary, one ovule in each locule and the absence of tendrils ; whereas the Vitaceae has stipulate leaves, 2-carpelled ovary, 2 ovules in each locule and the presence of tendrils.

The family is represented in India by the genus *Leea*.

For recent taxonomic revisions refer Ridsdale (1974).

GENERAL

LEE 1 Gagnepain, F. 1910

Essai d'cine classification des Leea asiatiques. *Bull. Soc. Bot. Fr.* 57 : 331-336. A key to 19 spp.

LEE 2 Ridsdale, C. E. 1974

A revision of the family Leeaceae. *Blumea* 22 : 57-100, 10 fig. 34 spp. recognised, key to spp.

LEE 3 Ridsdale, C. E. 1974

Leeaceae. *In* : van Steenis, *Fl. Males.* 7(part 4) : 755-782, maps, key.

LEE 4 Suessenguth, K. 1953

Leeaceae. *In* : Engler & Prantl, *Pflanzenf.* ed. 2 : 20d. 372-390.

Leea Linn.

LEE 5 Banerjee, R. N. & Babu, C. R. 1971

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LEE 6 Clarke, C. B. 1881

A revision of the Indian species of *Leea*. *Journ. Bot.* 19 : 100-106, 135-142, 163-167.

LEE 7 Nair, N. C. 1968

Contribution to the floral anatomy and embryology of two species of *Leea* with a discussion on the taxonomic position of the genus. *Journ. Indian Bot. Soc.* 47 : 193-205.

LEE 8 Prakash, U. & Dayal, R. 1964

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LEE 9 Ridsdale, C. E. 1980

Leea asiatica (L.) Ridsd., a new name for *Naluga* Rheede. *In* : Manilal (ed.) *Botany & History of Hortus Malabaricus* 189-190. Previously known as *Leea crispa* L.

LEGUMINOSAE

(See also Leguminosae—Papilionaceae after Lythraceae)

The family Leguminosae is included in the order Rosales by Bentham & Hooker, Cronquist, Engler and Thorne. However, Dahlgren, Takhtajan and Hutchinson considered the Papilionaceae, Caesalpiniaceae and Mimosaceae as separate families. In this work the Papilionaceae, Caesalpiniaceae and Mimosaceae are treated as separate families. However, some of the key references which are classified under Leguminosae are enumerated below.

For recent studies on chemotaxonomy and biochemistry refer Bell (1958, 1971), Bell & Fowden (1964), Birdsong *et al* (1960), El-Gazzar & El-Fiki (1976), Harborne (1971), Turner & Harborne (1967); for cytology and chromosome studies refer Chow (1974), Mehra & Hans (1971), Senn (1943); for morphology, taxonomy & classification refer Corner (1951), Gillet & Polhill (1971), Jones (1955), Pijl (1956), Tutin (1958).

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Contribution to the flora of West Pakistan : 1. Leguminosae. *Pakistan Journ. Bot.* 3(1-2) : 25-35.

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Comparative biochemistry of non-protein amino acids. In : Boulder, D. & Turner, B. L. *eds. Chemotaxonomy of the Leguminosae.* London & New York.

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LEG 10 Birdsong, B. A., Alston, R. & Turner, B. L. 1960

Distribution of canavanine in the family Leguminosae as related to phyletic grouping. *Canad, Journ. Bot.* 38 : 499-505.

LEG 11 Candolle, A. P. de 1825

Memoires sur la famille des Legumineuses, i-vi, 1-525.

LEG 12 Candolle, A. P. de 1825

Leguminosae. *In* : DC. *Prodr.* 2 : 93-524.

LEG 13 Capitaine, L. 1913

Etude analytique & phytogeographique du groupe des *Legumineuses. Bull. Geogr. Bot.* 23(A). 1-500. pl. 1-27. Keys to genera.

LEG 14 Chow, K. H. 1974

Morphology and ecology of some introduced herbaceous legumes. *Gard. Bull. Singap.* 27 : 85-94. 4 pl. Spp. of *Desmodium, Glycine, Phaseolus* and *Stylosanthes.*

LEG 15 Compton, R. H. 1912

An investigation of the seedling structure in the Leguminosae. *Journ. Linn. Soc. Bot.* 41 : 1-22.

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The leguminous seed. *Phytomorphology* 1 : 117-150.

LEG 17 Dalzell, N. A. 1873

New leguminosae from western India. *Journ. Linn. Soc.* (*Bot.*) 13 : 185-188.

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[A contribution to the question of the origin of cultivated beans]. *Bull. Appl. Bot. & Pl. Breed.* 23(5) : 305-406, fig. 1-21. In Russian with English resume.

LEG 19 Duke, J. A. 1981 *ed.*

Handbook of legumes of World economic importance, i-xi, 1-345. Plenum Press, New York & London.

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The main subdivisions of Leguminosae. *Bot. Notiser* 129 : 371-375. On the basis of seed morphology, distribution of alkaloids. flavonoids and canavanine and susceptibility to Uromyces rusts, De Candolle's classification of the Leguminosae into two major groups *Rectembriae* and *Curvembriae* seems superior to the more familiar recognition of the three subfamilies, *Mimosoideae, Caesalpinioideae* and *Papilionoideae.*

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Leguminosae—Papilionaceae. *In* : *Fl. Trop. East Africa* 1-1107.

LEG 22 Gupta, H. P. 1975

History of fossil Leguminosae in India. *Geophytology* 5 : 1-9, 1 map. 1 tab. Subfossil from early cultivation ; fossil domestication dates from 2500 B.C. (*Pisum*).

LEG 23 Harborne, J. B. 1971

Distribution of flavonoids in the Leguminosae. *In* : Harborne, J. B., Boulter, D. & Turner, B. L. *ed. Chemotaxonomy of Leguminosae.* London & New York.

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LEG 25 Herklots, G. A. C. 1972

Vegetables in South East Asia. Hafner Press. New York, 525 pp.

LEG 26 Isley, D. 1955

Observations on seeds of the Leguminosae : Mimosoideae and Caesalpinioideae. *Proc. Iowa Acad. Sci.* 62 : 142-149.

LEG 27 Jones, G. N. 1955

Leguminales : a new ordinal name. *Taxon* 4 : 188-189.

LEG 28 Kay, D. E. 1978

Food Legumes. TPI Crop and Product Digest No. 3. Tropical Products Institute, London.

LEG 29 Langenheim, J. A. 1973

Leguminous resin-producing trees in Africa and South America. *In* : Meggers, B. J. *ed. Tropical forest ecosystems* : 89-104, 3 maps. *Cynometra* is considered to be of African origin ; resin chemistry indicates monophyletic origin.

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Alkaloids in the Leguminosae. *In* : Harborne, Boulter, D. & Turner, B. L. *eds. Chemotaxonomy of the Leguminosae.* London and New York.

LEG 31 Mehra, P. N. & Hans, A. S. 1971

Cytological observations on arborescent Leguminosae of eastern Himalaya. *Nucleus* 14(2) : 144-152.

LEG 32 Pijl, L. van der 1956

Classification of the leguminous foods according to their ecological and morphological properties. *Proc. Koninkle Nederl. Akad. Wetensshap* 59 : 301-313.

LEG 33 Prain, D. 1897

Some additional Leguminosae. *Journ. As. Soc. Beng.* 66(ii) : 347-518.

LEG 34 Sastrapradja, S.

Food legumes in South East Asia. *Bio Indonesia* No. 4 : 45-56. Status of 14 food legumes.

LEG 35 Senn, H. A. 1943

The relation of anatomy and cytology to the classification of the Leguminosae. *Chron. Bot.* 7 : 306-308.

LEG 36 Sornay, P. de 1913

Les plantes tropicales, alimentaires et industrielles de la famille des Legumineuses i-xii, 1-489, fig. 1-75.

LEG 37 Stafleu, F. A. & Stearn, W. T. 1960

De Candolle's Legumineuses. *Taxon* 9 : 169-171.

LEG 38 Taubert, P. 1894

Leguminosae. *In* : Engler & Prantl, *Pflanzenf.* 3, 3 : 70-388.

LEG 39 Tiwari, S. D. N. 1980

The phytogeography of legumes of Madhya Pradesh (Central India). Bishen Singh, Mahendra Pal Singh, Dehra Dun xviii + 616 pp., 31 fig., photo & 39 maps.

LEG 40 Turner. B. L. & Harborne, J. B. 1967

Distribution of canavanine in the plant kingdom. *Phytochem.* 6 : 863-866.

LEG 41 Tutin, T. G. 1958

Classification of the legumes. *In* : Hallworth, E. G., *Nutrition of the legumes* 3-14, London.

LEG 42 Wang, Fa-tsuan & Thang, T. 1955

[*Illustrated treatment of the principal plants of China—Leguminosae*] i-iv, 1-726, I-CXXV, fig. 1-704. In Chinese, comprehensive with keys and descriptions.

LEG 43 Whyte, R. O. 1975

An environmental interpretation of the origin of Asian food legumes. *Indian Journ. Genet. Plant Breeding* 35 : 61-68.

LEG 44 Whyte, R. O. 1976

Taxonomic geography and the breeding of fodder legumes in South Asia. *Forage Res.* 2 : 19-24.

LEG 45 Whyte, R. O., Nilsson-Leissner, G. & Trumble, H. G. 1953 (reprinted 1966)

Legumes in Agriculture. Food and Agriculture Organization of the United Nations, Rome 1-367.

LEMNACEAE

The family Lemnaceae is included in the order Nudiflorae by Bentham & Hooker, in the order Spathiflorae by Engler and in the order Arales by Cronquist, Dahlgren, Hutchinson, Takhtajan and Thorne.

The Lemnaceae is characterised by its free floating or submerged aquatic habit with undifferentiated thalloid fronds, unisexual flowers, one staminate male flowers and one carpellate female flowers having one to six basal erect ovules.

The Lemnaceae is represented in India by the following genera : *Lemna, Spirodela, Wolffia.*

It is considered that the family Lemnaceae is an offshoot from the Araceae (Brooks, 1940). *Pistia,* an aquatic aroid is considered as the connecting link between the Araceae and Lemnaceae. For recent monographic studies refer Daubs (1965), Hartog & Plas (1970), Hepper (1973), Maheshwari (1961), Mitra (1975); for Chromosome studies refer Banerjee (1971), Blackburn (1933), Brooks (1940); for chemotaxonomy refer McClure & Alston (1966), Zennie & McClure (1977).

LMN 1 Arber, A. 1919

The vegetative morphology of *Pistia* and the Lemnaceae. *Proc. Roy. Soc. London* B. 91 : 96-103.

LMN 2 Banerjee, M. 1971

Chromosome studies in Lemnaceae. *Rev. Roum. Embryol. Cytol. Ser. Cytol.* 8(2) : 21-27. Chrom. nos.

LMN 3 Blackburn, K. B. 1933

Notes on the Chromosomes of the duckweeds (Lemnaceae) introducing the question of chromosome size. *Proc. Univ. Durham Phil. Soc.* 9 : 84-90.

LMN 4 Brooks, J. S. 1940

The cytology and morphology of the Lemnaceae. *Thesis Ph. D.,* Cornell University 1940.

LMN 5 Daubs, E. H. 1965

A monograph of Lemnaceae, Illinois Biol. Monogr. 34 : 1-118, 4 tab., 21 pl.

LMN 6 Goebel, K. 1921

Zur Organographie der Lemnaceen. *Flora* 114 : 278-305.

LMN 7 Hartog, C. Den & Plas, F. van der 1970

A synopsis of the Lemnaceae. *Blumea* 18(2) : 355-368. The family Lemnaceae is divided into 2 subfamilies *Lemnoideae* and *Wolffioideae*. *Wolffiopsis* and *Pseudowolffia* are two new genera.

LMN 8 Hegelmaier, F. 1868

Die Lemnaceen Eine monographische, Untersuchung. Leipzig. 1-169.

LMN 9 Hegelmaier, F. (1895) 1896

Systematische Uebersicht der Lemnaceen. *Engl. Bot. Jahrb.* 21 : 268-305.

LMN 10 Hepper, F. N. 1973

Lemnaceae. *In : Fl. Tropical East Africa,* 1-9, Crown Agents, London. Key.

LMN 11 Hepper, F. N. 1981

Lemnaceae. *In : Handb. Fl. Ceylon,* New Delhi 397-402. 1 fig.

LMN 12 Hillman, W. S. 1961

The Lemnaceae or duckweeds. *Bot. Rev.* 27 : 222-287.

LMN 13 Ivanova, I. E. 1973

K sistematike semeistva Lemnaceae S. Gray. [On the taxonomy of Lemnaceae S. Gray]. *Bot. Zhurn.* 58(10) : 1413-1423.

LMN 14 Kurz, S. 1867

Enumeration of Indian Lemnaceae. *Journ. Proc. Linn. Soc. Bot.* 9 : 264-268. pl. 5.

LMN 15 Lawalre, A. 1945

La position des Lemnaceae et leur classification. *Bull. Soc. Bot. Roy. Belg.* 77 : 27-38. Affinity is with Najadaceae and not with Araceae.

LMN 16 McCann, C. 1942

Observations on Indian duckweeds, Lemnaceae. *Journ. Bombay Nat. Hist. Soc.* 43 : 148-162. t. 9, fig. 1.

LMN 17 McClure, J. W. & Alston, R. E. 1966

A chemotaxonomic study of Lemnaceae. *Amer. Journ. Bot.* 53 : 849-860. Identification of taxa on the basis of specific flavonoids.

LMN 18 Maheshwari, S. C. 1961

Systematic position of the family Lemnaceae. *Recent Adv. Bot.* 689-694. Allied to Araceae.

LMN 19 Plas, F. van der 1971

Lemnaceae. *In* : van Steenis, *Fl. Males.* I, 7 : 219-237, 8 fig.

LMN 20 Schleiden, M. J. 1839

Prodromus monographiae Lemnacearum oder conspectus generum atque specierum. *Linnaea* 13 : 385-392. A systematic account.

LMN 21 Zennie, T. M. & McClure, J. W. 1977

The flavonoid chemistry of *Pistia stratiotes* L. and the origin of the Lemnaceae. *Aquatic Bot.* 3(1) : 49-54.

Lemna Linn.

LMN 22 Beatson, M. E. 1955

Subfossil pollen of Lemna in Quarternary depositis—Data for the study of post-glacial history XV. *New Phytol.* 54 : 208.

LMN 23 Blodgett, F. H. 1914

Homologies of the frond in Lemna. *Science* 39 : 291, 292.

LMN 24 Blodgett, F. H. 1915

Morphology of the Lemna frond. *Bot. Gaz.* 60 : 383-390.

LMN 25 Caldwell, O. W. 1899

On the life-history of *Lemna minor*. *Bot. Gaz.* 27 : 37-66.

LMN 26 Lange, L. de & Pieterse, A. H. 1973

A comparative study of the morphology of *Lemna gibba* L. and *Lemna minor* L. *Acta Bot. Neerl.* 22(5) : 510-517.

LMN 27 Lange, L. de & Westinga, E. 1979

The distinction between *Lemna gibba* and *Lemna minor* L., on the basis of vegetative characters. *Acta Bot. Neerl.* 28 : 169-176.

LMN 28 Guppy, H. B. 1894

On the habits of *Lemna minor*, *L. gibba* and *L. polyrrhiza*. *Journ. Linn. Soc. Bot.* 30 : 323-330.

LMN 29 Hegelmaier, F. 1896

Systematische Ubersicht der Lemnaceen. *Bot. Jahrb.* 21 : 268-305.

LMN 30 Kandeler, R. and Hugel, B. 1974

Wiederentdeckung der echten *Lemna perpusilla* Torr. und Vergleich mit *L. paucicostata* Hegelm. (Lemnaceae). *Plant Syst. Evol.* 123 : 83-96.

LMN 31 Maheshwari, S. C. 1956

The endosperm and embryo of *Lemna* and systematic position of the Lemnaceae. *Phytomorphology* 6 : 51-55.

LMN 32 Mitra, E. (1972) 1975

Contributions to our knowledge of Indian freshwater plants : 6. On some aspects of the habit, external morphology, reproduction and autecology of *Spirodela polyrrhiza* Linn. and *Lemna trisulca* Linn. *Journ. Asiat. Soc. Calcutta* 14(2-4) : 29-51.

LMN 33 Sloover, J. L. de 1961

Note sur la pollen de *Lemna minor* L. *Pollen et Spores* 3(1) : 5-10.

Spirodela Schleid.

LMN 34 Hegelmaier, F. 1871

Uber die Fructifikationstheile von Spirodela. *Bot. Zeit.* 29 : 621-629, 645-666.

LMN 35 Hegelmaier, F. 1896

Systematische Ubersicht der Lemnaceen. *Bot. Jahrb.* 21 : 268-305.

LMN 36 Jacobs, D. L. 1947

An ecological life-history of *Spirodela polyrrhiza* (Greater Duckweed) with an emphasis on turion phase. *Ecol. Monogr.* 17 : 437-469.

LMN 37 Maheshwari, S. C. 1958

Spirodela polyrrhiza : the link between the aroids and the duckweeds. *Nature* 181 : 1745, 1746.

Wolffia Horkel ex Schleid.

LMN 38 Gupta, B. L. 1935

Studies in the development of the pollen grains and embryosac of *Wolffia arrhiza*. *Curr. Sci.* 4 : 104-105.

LMN 39 Landolt, E. 1980

Key to the determination of taxa within the family of Lemnaceae. *In* : E. Landolt, *ed. Biosystematische Untersuchungen in der Familie der Wasserlinsen* (Lemnaceae). Vol. 1. Veroff. Geobot. Inst. Stift. Rubel Zurich Heft. 70 : 13-21. 3 fig.

LMN 40 Lawalree, A. 1943

Las multiplication vegetative des Lemnacees, en particulier chez *Wolffia arrhiza*. *Cellule* 49 : 337-382.

LMN 41 Urbanska-Worytkiewicz, K. 1980

Cytological variation within the family of Lemnaceae. *In* : E. Landolt, *ed. Biosystematische Untersuchungen in der Familie der Wasserlinsen* (Lemnaceae). Vol. 1. Veroff. Geobot. Inst. Stift. Rubel Zurich Heft 70 : 30-101. 108 fig. 12 tab.

LENTIBULARIACEAE

The family Lentibulariaceae is included in the order Personales by Bentham & Hooker and Hutchinson, in the order Tubiflorae by

Engler, in the order Bignoniales by Thorne and in the order Scrophulariales by Cronquist and Takhtajan.

The Lentibulariaceae is characterised by its insectivorous habit, 5-merous flowers, 2-lipped and often persistent calyx and 5-lobed, 2-lipped corolla, 2 stamens with 1-loculed anthers and superior one loculed ovary with free central placentation.

The Lentibulariaceae is allied to Scrophulariaceae but is distinguished by the presence of 2 stamens and by the free central placentation.

The family is represented in India by the following genera : *Pinguicula, Utricularia.*

For recent taxonomic studies refer Komiya (1973), Basak (1976, 1981), Subramanyam (1976, 1979), Subramanyam & Abraham (1968), Taylor (1961, 1964); for pollen morphology refer Thanikamoni (1966).

LNT 1 Barnhart, J. H. 1916

Segregation of genera in Lentibulariaceae. *Mem. New York Bot. Gard.* 6 : 39-64. fig. 1-25. Key to genera.

LNT 2 Benjamin, L. 1847

Neue Gattungen und Arten der Utricularien, nebst einer newen Einteilung der Gattung Utricularia. *Linnaea* 20 : 299-315. Synoptic account.

LNT 3 Candolle, A. de 1844

Lentibulariaceae. *In* : DC., *Prodr.* 8 : 2-32.

LNT 4 Komiya, S. 1973

New subdivisions of the Lentibulariaceae. *Journ. Jap. Bot.* 48 : 147-153. Sub-families, tribes, genera typified.

LNT 5 Santapau, H. 1950

Notes on the Lentibulariaceae of Bombay. *Journ. Bombay Nat. Hist. Soc.* 49 : 217-221.

LNT 6 Taylor, P. 1967

Lentibulariaceae. *Mem. New York Bot. Gard.* 17 : 201-228.

Utricularia Linn.

LNT 7 Abraham, V., Mitra, R. L. & Subramanyam, K. 1974

Identity and nomenclature of *Utricularia nivea* Vahl. *Curr. Sci.* 43 : 571-572. Compared with *U. caerulea* L., descr. & distr. of both spp.

LNT 8 Basak, R. K. 1976

Neotype of *Utricularia polygaloides* Edgeworth. *Taxon* 25 : 189.

LNT 9 Basak, R. K. (1979) 1981

On the typification of *Utricularia caerulea* L. and few allied species. *Bull. Bot. Surv. India* 21 : 216-218, 1 fig. The contention of Bhattacharyya, P. (1976) 1978 is contradicted.

LNT 10 Bhattacharyya, P. (1976) 1978

What is *Utricularia coerulea L.* ? *Bull. Bot. Soc. Bengal* 30 : 73-87. fig. 8.

LNT 11 Edgeworth, M. P. (1847) 1848

Description of a new genus of Lentibulariae with remarks on some Indian species of *Utricularia. Proc. Linn. Soc.* 1 : 351.

LNT 12 Hooker, J. D. 1883

Utricularia bifida. Curtis's Bot. Mag. 109. pl. 6889. Native of India & China.

LNT 13 Huynh, K. L. 1968

Etude de la morphologie du pollen du genre *Utricularia* L. *Pollen et Spores* 10(1) : 11-55.

LNT 14 Kausik, S. B. 1935

The life history of *Utricularia coerulea* L. *Curr. Sci.* 3 : 357-359.

LNT 15 Kondo, K. 1972

Chromosome number of *Utricularia subulata. Journ. Jap. Bot.* 47(1) : 31-32.

LNT 16 Kurz, S. 1874

Description of *Utricularia nivea* Vahl. *Journ. Bot.* 12 : 53-54.

LNT 17 Lloyd, F. E. 1932

The range of structural and functional variety in the traps of *Utricularia* and *Polypompholyx*. *Flora* 126 : 303-328.

LNT 18 Lloyd, F. E. 1935

Utricularia. *Biol. Rev.* 10 : 72-110.

LNT 19 Lloyd, F. E. 1942

The carnivorous plants 1-325. Waltham, Mass.

LNT 20 Oliver, D. 1859

The Indian species of *Utricularia*. *Journ. Linn. Soc. Bot.* 3 : 170-190.

LNT 21 Pringsheim, N. 1869

Zur Morphologie der Utricularien. Berlin.

LNT 22 Rao, A. S. & Joseph, J. 1967

Utricularia pubescens Sm.—First report of its occurrence in India. *Indian Forester* 93 : 32-33.

LNT 23 Rossbach, G. B. 1939

Aquatic Utricularias. *Rhodora* 41 : 113-128.

LNT 24 Saxena, H. O. 1965

Utricularia pubescens Sm. A new record for India. *Indian Forester* 91 : 73-75.

LNT 25 Siddiqui, S. A. 1965

The pollen grains of *Utricularia coerulea* Linn. A reinvestigation. *Sci. & Cult.* 31 : 202.

LNT 26 Siddiqui, S. A., Hashmi, S. & Siddiqui, S. B. 1976

Key for the identification of *Utricularia* spp. on the basis of trichomes. *Geobios*. (Jodhpur) 3(2) : 54-56.

LNT 27 Subramanyam, K. 1976

Studies on the Indian *Utricularia* L. I. *U. minutissima* Vahl. History and distribution. *Vignana Bharati* 3 : 76-81.

LNT 28 Subramanyam, K. 1979

Studies on the Indian *Utricularia* Linn.—A review. *Journ. Indian Bot. Soc.* 58(1) : 1-16.

LNT 29 Subramanyam, K. & Abraham, V. (1967) 1968

Studies on the traps of some Indian species of *Utricularia* L. *Bull. Bot. Surv. India* 9 : 201-205, tab. 1, fig. 44. Traps of 6 spp., discussion.

LNT 30 Subramanyam, K. & Balakrishnan, N. P. 1960

Utricularia lilliput Pellegrin—a new record for India. *Bull. Bot. Surv. India* 2 : 347-348, fig. 1-14.

LNT 31 Subramanyam, K. & Banerjee, L. K. 1968

Utricularia roseo-purpurea Stapf ex Gamble (Lentibulariaceae), a little known species. *Bull. Bot. Surv. India* 10 : 103-106. Descr., key to *U. coerulea* & *U. roseo-purpurea*.

LNT 32 Sundara Raghavan, S., Wadhwa, B. M. & Ansari, M. Y. 1970

On the identity of *Utricularia equiseticaulis* Blatt. & McCann. *Indian Forester* 96 : 503-505. Only a robust form of *U. graminifolia* Vahl.

LNT 33 Taylor, P. 1961

Notes on *Utricularia*. *Mitt. Bot. Staatsamml. Munchen* 4 : 95-106. 3 fig. *U. stellaris* L. f. is considered as a variety of *U. inflexa* Forsk ; *U. exoleta* R. Br. a subsp. of *U. gibba* L.

LNT 34 Taylor, P. 1964

The genus *Utricularia* L. (Lentibulariaceae) in Africa (south of the Sahara and Madagascar). *Kew Bull.* 18 : 1-245, 85 fig. Nomenclature of some Indian spp.

LNT 35 Thanikamoni, G. 1966

Pollen morphology of the genus *Utricularia*. *Pollen et Spores* 8(2) : 265-284.

LILIACEAE

The family Liliaceae is included in the order Liliales by Cronquist, Dahlgren, Hutchinson, Takhtajan and Thorne, in the order Liliflorae by Engler and in the order Coronarieae by Bentham & Hooker.

The family Liliaceae is characterised by regular bisexual flowers arranged in racemose inflorescence, usually perianth in 3+3 series, six stamens opposite to the perianth segments, superior 3-loculed ovary and ovules on axile placentation. Cronquist has included the family Amaryllidaceae in the Liliaceae. The Liliaceae differs from the Iridaceae in having superior ovary and 6 stamens (seldom 4). Whereas in the Iridaceae the ovary is inferior and the stamens are three in number. Liliaceae is closely connected to Amaryllidaceae through the family Alliaceae which is allied to Liliaceae in having superior ovary and which is allied to Amaryllidaceae in having umbellate inflorescence.

The family Liliaceae is represented in India by the following genera : *Aletris, Asparagus, Asphodelus, Aspidistra, Campylandra, Cardiocrinum, Colchicum, Chlorophytum, Clintonia, Dianella, Dipcadi, Disporum, Eremurus, Fritillaria, Gagea, Gloriosa, Gonioscypha, Hemerocallis, Iphigenia, Lilium, Lloydia, Merendera, Nomocharis, Notholirion, Ophiopogon, Peliosanthes, Polygonatum, Scilla, Smilacina, Streptopus, Theropogon, Tofieldia, Tricyrtis, Tulipa, Tupistra, Urginea.*

Some species of the following genera are cultivated in India : *Aloe, Anthericum, Eucomis.*

For recent taxonomic revisions refer Deb & Das Gupta (1978, 1981), El-Gazzar & Badawi (1975), Rowley (1976), Woodcock & Stern (1950); for Chromosome studies refer Brandham (1971), Chatterjee (1973), Sata (1942), Sen (1975), Sharma & Chatterji (1958), Sharma *et al* (1972); for palynology refer Nair (1965).

LIL 1 Baker, J. G. 1870

A revision of the genera and species of herbaceous

capsular gamophyllous Liliaceae. *Journ. Linn. Soc. Bot.* 11 : 349-436.

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The morphology of somatic chromosomes in *Lilium*. *Amer. Journ. Bot.* 34 : 9-26.

LIL 152 Stoker, F. 1933

The environment of lilies in nature. *Lily Year Book* 1933 : 11-54, pl. 4-7, fig. 2-3.

LIL 153 Stoker, F. 1935

A list of lily names and synonyms. *Lily Year Book* 1935 : 4-34.

LIL 154 Stoop van de Kasteele, F. S. C. 1974

Conservation of wild species. *Biol. Conserv.* 6(1) : 26-31.

LIL 155 Wallace, A. 1873 & 1879

Notes on lilies and their culture (*1st ed.*) 1-109. 1873 ; *2nd ed.* i-x, 1-215. 1879.

LIL 156 Wallace, A. 1894

The speciosum group of *Lilium*. *Garden* 45 : 90-91, pl. 947.

LIL 157 Wallace, R. W. 1900

Lilies. *Journ. Roy Hort. Soc.* (*London*) 25 : 98-113, fig. 8-30.

LIL 158 Watson, W. 1907

Lilium tigrinum. *Kew. Bull. Misc. Inf.* 1907 : 297. General notes.

LIL 159 Waugh, F. A. 1899

A conspectus of the genus *Lilium*. *Bot. Gaz.* 27 : 235-254, 340-360.

LIL 160 Wilson, E. H. 1925

The lilies of eastern Asia. A monograph i-xiv, 1-110, pl. 1-16.

LIL 161 Wilson, G. F. 1901

Notes of my experiences with lilies. *Journ. Roy. Hort. Soc. (London)* 26 : 377-382. fig. 192-197.

LIL 162 Woodcock, H. D. & Coutts, J. 1935

Lilies, their culture and management, including a complete descriptive list of species i-xv, 1-242, fig. 1-130.

LIL 163 Wyman, Donald 1965

Lilies in their order of bloom. *Arnoldia* 24 : 89-95.

Lloydia Salisb. ex Reichb.

LIL 164 Hara, H. 1974

New or noteworthy flowering plants from Eastern Himalaya. 15. *Journ. Jap. Bot.* 49(7) : 193-205. *L. flavonutans* Hara from Sikkim, Nepal, Bhutan & Tibet.

Nomocharis Franch.

LIL 165 Balfair, I. B. 1918

The genus *Nomocharis*. *Trans. Bot. Soc. Edinburgh* 27 : 273-300. Monographic.

LIL 166 Evans, W. E. 1925

A revision of the genus *Nomocharis*. *Notes Bot. Gard. Edinb.* 15 : 1-46, pl. 199-212.

LIL 167 Evans, W. E. 1926

An undescribed *Nomocharis* from Upper Burma with notes on some recent gatherings of known species. *Notes Bot. Gard. Edinb.* 15 : 191-197. pl. 218. *N. georgii* with notes.

LIL 168 Evans, W. E. 1932

List of species of *Nomocharis*. *Lily Year Book* 1932 : 99-100.

LIL 169 Harley, A. 1931

Nomocharis. *Journ. Roy. Hort. Soc. (London)* 56 : 15-17, fig. 10-13.

LIL 170 Harrow, R. L. 1929

Nomocharis. *New Fl. & Silva* 1 : 75-78, fig. 21-23.

LIL 171 Sealy, J. R. 1939

Nomocharis farreri. Curtis's Bot. Mag. 162 : pl. 9557. Native of Burma ; key to species of sect. *Eunomocharis.*

LIL 172 Sealy, J. R. 1950

Nomocharis and *Lilium. Kew Bull.* 1950 : 273-297, fig. 1-5.

LIL 173 Wilkie, D. 1948

Nomocharis. Journ. Roy. Hort. Soc. (London) 73 : 44-77. A general note.

Notholirion Wall. ex Boiss.

LIL 174 Cotton, A. D. 1934

Notholirion macrophyllum. Curtis's Bot. Mag. 157 : pl. 9355. Includes a key to 3 spp. of *Notholirion.*

LIL 175 Cotton, A. D. 1934

The genus *Notholirion. Lily Year Book* 1934 : 15-20.

LIL 176 Masterton, R. S. 1979

Notholirion. Journ. Scott Rock Gard. Club 16(4) : 270-271.

LIL 177 Stapf, O. 1934

Lilium, Notholirion and *Fritillaria. Kew Bull. Misc. Inf.* 1934 : 94-96.

LIL 178 Stearn, W. T. 1951

A note on *Paradisea, Diuranthera* and *Notholirion. Kew Bull.* 1950 : 419-422. *Notholirion bulbiferum* (Lingelsh) *Stearn* n. comb. based on *Paradisea bulbifera* Lingelsh occurring from W. China to Assam.

Ophiopogon Ker-Gawl.

LIL 179 Hume, H. H. 1961

The Ophiopogon-Liriope complex. *Baileya* 9 : 135-158, fig. 48-60.

LIL 180 Maximowicz, C. J. 1870

Ophiopogonis species in herbariis Petropolitanis. *Bull. Acad. Sci. St. Petersb.* 15 : 83-90. A revision.

LIL 181 Nandi, S. 1974

Chromosome characteristics and their correlation with the phenotypic and ecological variants in *Chlorophytum, Ophiopogon* and *Dianella*. *Bull. Bot. Soc. Bengal* 28(1-2) : 117-122.

Peliosanthes Andr.

LIL 182 Jessop, J. P. 1976

A revision of *Peliosanthes* (Liliaceae). *Blumea* 23 : 141-159, 9 fig. Descr., habitat & distr., chrom. nos.

Polygonatum Mill.

LIL 183 Abramova, L. I. 1975

[On the taxonomical structure of the genus *Polygonatum* Mill.]. *Bot. Zhurn.* 60(4) : 490-497.

LIL 184 Bruckell, C. D. 1972

Polygonatums and their relatives. *Lilies* 1972 : 28-35.

LIL 185 Hua, H. 1892

Polygonatum et *Aulisconema* gen. nov. de la Chine. *Journ. de Bot.* 6 : 389-396, 420-428, 444-451, 469-472, pl. 14. 23 spp. of *Polygonatum* and 2 spp. of *Aulisconema*.

Ruscus Linn.

LIL 186 Sen, S. 1978

Evolution and affinity of the genera *Ruscus* and *Asparagus*. *Journ. Indian Bot. Soc.* 57(3) : 232-237. Chrom. nos.

Scilla Linn.

LIL 187 Deb, D. B. & Dasgupta, S. (1975) 1978

Revision of the genus *Scilla* L. in India (Liliaceae). *Bull. Bot. Surv. India* 17 : 41-50. Key to 3 spp. of *Scilla*.

LIL 188 Jessop, J. P. 1970

Studies in the bulbous liliaceous *Scilla, Schizocarphus* and *Ledebouria*. *Journ. S. Afr. Bot.* 36(4) : 233.

LIL 189 Meikle, R. D. 1972

Scilla griffithii. *Curtis's Bot. Mag.* 179(1) : tab. 621.

LIL 190 Roy, S. C. 1971

Chromosome study in different species of *Scilla*. *Rev. Roum. Embryol. Cytol. Ser. Cytol.* 8(1) : 29-35. Chrom. nos.

LIL 191 Rao, Y. S. 1953

Chromosomes of *Scilla indica* Baker. *Sci. & Cult.* 18 : 336.

LIL 192 Rao, Y. S. 1954

Chromosomes of *Scilla hohenackeri* Fisch. et Mey. *Curr. Sci. Bangalore* 23 : 94-95.

LIL 193 Rao, Y. S. 1956

Chromosomes of *Scilla hohenackeri* Fisch. et Mey. *Curr. Sci. Bangalore* 25 : 63-64.

LIL 194 Rao, Y. S. 1956

Scilla indica in India. *Curr. Sci. Bangalore* 25 : 164-165.

LIL 195 Satyesh, C. R. 1971

Chromosome study in different species of *Scilla*. *Rev. Roum. Embryol. Cytol.* 8(1) : 29-35. Chrom. nos.

Smilax Linn.

LIL 196 Candolle, A. de 1878

Smilacees in DC., *Monogr. Phan.* 1 : 1-217.

LIL 197 Koyama, T. 1960

Materials towards a monograph of the genus *Smilax*. *Quart. Journ. Taiwan Mus.* 13 : 1-61, 4 pl.

LIL 198 Koyama, T. 1963

The Indian species of *Smilax*. *Adv. Frontiers of Pl. Sci.* 4 : 39-77, 4 fig.

Streptopus Rich in Michx.

LIL 199 Hara, H. 1973

New or noteworthy flowering plants from Eastern Himalaya (12). *Journ. Jap. Bot.* 48 : 97-104. *Streptopus parasimplex* Hara et Ohashi from E. Nepal & Sikkim.

Tulipa Linn.

LIL 200 Baker, J. G. 1883

The species of *Tulipa*. *Gard. Chron. n. ser.* 19 : 626, 668, 691, 788 ; 20 : 11-12, 71, 153, 168-169, 233-234, 266. Monographic.

LIL 201 Hall, A. D. 1936

Polyploidy in *Tulipa*. *Journ. Linn. Soc.* 50 : 481-489.

LIL 202 Hall, A. D. 1940

The genus *Tulipa,* i-viii, 1-171, pl. 1-40, 1-23. Monographic.

LIL 203 Hoog, M. H. 1972

On the origin of *Tulipa*. *Lilies* 1973 : 47-64. Chrom. nos.

LIL 204 Johnston, G. W. 1959

Abnormal pollen of *Tulipa*. *Phytomorphology* 9(4) : 320-325.

LIL 205 Newton, W. C. F. 1927

Chromosome studies in *Tulipa* and some related genera. *Journ. Linn. Soc.* 47 : 339-354.

LIL 206 Sen, S. 1977

Chromosomes and evolution in species of *Tulipa*. *Acta Bot. Indica* 5(2) : 128-132.

LIL 207 Southern, D. I. 1967

Species relationships in the genus *Tulipa*. *Chromosome* (*Berl.*) 23 : 80-94.

LIL 208 Upcott, M. & La Cour, L. F. 1936

The genetic structure of *Tulipa* I. Chromosome survey. *Journ. Genet.* 33 : 237-254.

Urginea Steinh.

LIL 209 Boraiah, G. & Khaleel, T. F. (1970) 1972

Cytotaxonomy of *Urginea govindappae* sp. nov. *Bull. Bot. Surv. India* 12 : 128-131. Descr. from Karnataka ; merged with *U. indica* (Roxb.) Kunth, *vide infra* Deb & Dasgupta, 1977.

LIL 210 Deb, D. B. & Dasgupta, S. (1974) 1977

Revision of the genus *Urginea* Steinhill (Liliaceae) in India. *Bull. Bot. Surv. India* 16 : 116-124. Key to spp.

LIL 211 Kamble, S. Y. & Ansari, M. Y. (1976) 1979

A note on the somatic chromosomes of *Urginea polyantha* Blatter. *Bull. Bot. Surv. India* 18(1-4) : 212-213.

LIL 212 Naik, V. N. 1973

A natural tetraploid of *Urginea coromandeliana* Hook. f. *Curr. Sci.* 42(12) : 439-440.

LIL 213 Subramanian, D. 1978

Cytogenetical studies in *Urginea indica* (Roxb.) Kunth. *Journ. Indian Bot. Soc.* 57(3) : 211-218. Chrom. nos.

LIL 214 Zaman, M. A. & Khaleque, Y. 1978

The cytology of *Urginea indica* Kunth. from Bangladesh. *Caryologia* 31(2) : 137-145. Chrom. nos.

LIMNOCHARITACEAE

The family Limnocharitaceae is included in the order Alismales by Takhtajan, in the order Alismatales by Cronquist. However it is not given a family status by Bentham & Hooker, Engler, Hutchinson and Thorne. It is included in the family Alismaceae by Bentham & Hooker and Thorne and it is included in the family Butomaceae by Engler and Hutchinson.

The Limnocharitaceae is characterised by laminar placentation. It is allied to Butomaceae but differs in having latex systems, in the presence of green calycine outer perianth whorl, delicate non-persistent corolline inner whorl and multiaperturate pollen.

The family is represented in India by the following genera : *Limnocharis, Tenagocharis.*

For taxonomic notes refer Bahadur & Raizada (1968) ; for pollen studies refer Argue (1974).

Limnocharis HBK.

LMC 1 Argue, C. L. (1973) 1974

The pollen of *Limnocharis flava* Buch., *Hydrocleis nymphoides* (Willd.) Buch. and *Tenagocharis latifolia* (Don) Buch. (Limnocharitaceae). *Grana* 13(2) : 108-112.

LMC 2 Bahadur, K. N. & Raizada, M. B. 1968

Limnocharis flava (L.) Buchanan—a new record for India. *Indian Forester* 94 : 641-644. 1 pl. Discussion, synonymy, biology, distr. reported from Kerala.

LMC 3 Kammathy, R. V. & Subramanyam, K. 1967

Limnocharis H. B. K.—A genus new to India. *Journ. Bombay Nat. Hist. Soc.* 64 : 389-390. *L. flava* (L.) Buchanan from Kerala.

LMC 4 Rao, T. A. & Das, G. C. 1974

Limnocharis flava (L.) Buch.—An aquatic plant on the move in Kerala State. *Journ. Bombay Nat. Hist. Soc.* 70 : 577.

LINACEAE

(includes Hugoniaceae)

The family Linaceae is included in the order Geraniales by Bentham & Hooker, Cronquist, Engler, Takhtajan and Thorne. It is included in the order Linales by Cronquist and in the order Malpighiales by Hutchinson.

The Linaceae is characterised by 5-merous flowers, contorted corolla, 5, 10 or more stamens united at the base to form a ring and septicidal dehiscent capsule. Another feature of distinction is the usually early falling petals and the fusion of the short stamens to form a ring.

The family is represented by the following genera : *Anisadenia, Hugonia, Linum, Reinwardtia.*

For recent taxonomic revisions refer Cifferri (1949) ; for palynology Raj & Suryakanta (1968), Manukyan (1964), Nair & Sharma (1975), Seetharam & Srinivasachar (1972), Xavier & Rogers (1963), Sharma (1962), for chemotaxonomy refer Rogers (1972).

LIN 1 Caius, J. F. 1940

The medicinal and poisonous flaxworts of India. *Journ. Bombay Nat. Hist. Soc.* 42 : 167-170. Keys to 4 genera.

LIN 2 Hallier, f. H. 1921

Beitrage zur kenntnis der Linaceae (DC. 1819) Dumort. *Beih. Bot. Centralbl.* 39(2) : 1-178. The delimitation of the family *sensu lato.*

LIN 3 Planchen, J. E. 1847-48

Sur la familledes Linees. *Lond. Journ. Bot.* 6 : 588-603. 1 fold diagr. 1847 ; 7 : 165-186, 473-501, 507-528. 1848.

LIN 4 Raj, B. & Suryakanta, 1968

Pollen morphology of some genera of Linaceae. *Journ. Palynol. Lucknow* 4 : 73-76.

LIN 5 Saad, S. I. 1962

Palynological studies in the Linaceae. *Pollen et Spores* 4(1) : 65-82.

Hugonia Linn.

LIN 6 Subramanian, K. N. & Kalyani, K. B. 1975

Hugonia ferruginea W. & A. A new record for the Flora of India. *Indian Forester* 101 : 569. Previously reported from Sri Lanka.

Linum Linn.

LIN 7 Basu, N. C. & Bose, S. 1975

Preliminary studies on some botanical, anatomical and agronomical aspects of flax. (*Linum usitatissimum* L.). *Sci. & Cult.* 41(7) : 323-325.

LIN 8 Ciferri, R. 1949

La sistematica de Lino. Secunde Wulff & Elladi, 1-203. Bologna.

LIN 9 El-Gazzar, A., Momataz, A. & Gaafar, S. 1976

The identification of some flax introduction. *Phytologia* 33(7) : 467-473. Key.

LIN 10 Giannasi, D. E. & Rogers, C. M. 1970

Taxonomic significance of floral pigments in *Linum* (Linaceae). *Brittonia* 22 : 163-174. The distribution of petal carotenoids and flavonoids support the division of 30 spp. of *Linum* into 5 subgeneric groupings.

LIN 11 Momtaz, A., El-Gazzar, A. & Gaafar, S. 1976

The use of anatomical properties of flax varieties on the confirmation of their identity. *Phytologia* 33(7) : 474-479. Key.

LIN 12 Manukyan, L. K. 1964

Palynomorphology of the Caucasian representatives of the genus *Linum*. *Trudy Bot. Inst. Akad. Nauk. Arn. S. S. R.* 14 : 65-77.

LIN 13 Nair, P. K. K. & Sharma, R. K. 1975

A study of the pollen morphology of some cultivars of *Linum usitatissimum* L. *New Botan.* 2(3-4) : 135-147.

LIN 14 Nestler, H. 1933

Beitrage zur systematischen kenntnis der Gattung *Linum*. *Beih. Bot. Centralbl.* 50(2) : 497-551, pl. 4-7. Key to the species, mainly morphological.

LIN 15 Rogers, C. M. 1972

The taxonomic significance of the fatty acid content of seeds of *Linum*. *Brittonia* 24(4) : 415-419.

LIN 16 Rogers, C. M. & Xavier, K. S. 1972

Parallel evolution in pollen structure in *Linum*. *Grana* 12 : 41-46.

LIN 17 Saad, S. I. 1961

Pollen morphology and sporoderm stratification in *Linum*. *Grana Palynologica* 3(1) : 109-129.

LIN 18 Seetharam, A. 1972

Interspecific hybridization in *Linum*. *Euphytica* 21(3) : 489-495.

LIN 19 Seetharam, A. & Srinivasachar, D. 1972

Cytomorphological studies in the genus *Linum*. *Cytologia* 37(4) : 661-671.

LIN 20 Xavier, K. S. & Rogers, C. M. 1963

Pollen morphology as a taxonomic tool in *Linum*. *Rhodora* 65 : 137-145.

Reinwardtia Dum.

LIN 21 Sharma, M. 1962

Pollen morphology of *Reinwardtia indica* Dum. *Pollen et Spores* 4(2) : 269-272.

LOBELIACEAE

(Refer also Campanulaceae)

The family Lobeliaceae is included in the order Campanulales by Takhtajan, in the order Campanales by Hutchinson. It is retained in the family Campanulaceae by Bentham & Hooker, Cronquist, Engler & Thorne.

The Lobeliaceae is characterised by alternate exstipulate leaves, irregular flowers arranged in racemes or panicles, 5-merous floral parts, corolla of 5 fused petals which are 2-lipped, 5 anthers joined to form syngenesious anthers and inferior ovary.

The family is represented in India by the following genus: *Lobelia.*

For cytology and chromosome studies refer Bhattacharyya (1972); for pollen studies refer Chaubal & Deodikar (1963), Dunbar (1975); for comparative wood anatomy refer Carlquist (1969).

LOB 1 Bhattacharyya, N. K. 1972

Cytology of two members of Campanulaceae and Lobeliaceae and their inter relationships. *Cytologia* 37(3) : 435-443. Chrom. nos. *Lobelia terminalis.*

LOB 2 Candolle, A. de 1839

Lobeliaceae. *In* : DC. *Prodr.* 7 : 339-413.

LOB 3 Carlquist, S. 1969

Wood anatomy of Lobelioileae. *Biotropica* 1 : 47.

LOB 4 Dunbar, A. 1975

On pollen of Campanulaceae and related families with special reference to the surface ultrastructure. 2 : Campanulaceae subfam. Cyphioideae and subfam. Lobelioideae, Goodeniaceae, Sphenocleaceae. *Bot. Notiser.* 128(1) : 102-118.

LOB 5 Presl, C. B. 1836

Prodromus monographiae Lobeliacearum. *Abh. Bohm. Ges. Wiss. n. ser.* 4 : 1-52.

LOB 6 Wimmer, F. E. 1943

Campanulaceae—Lobelioideae I. *In* : Engler, *Pflanzenr.* 106 (IV. 276b) : 1-260 ; II. *Ibid.* 107(IV. 276B) : 1-813.

LOB 7 Wimmer, F. E. 1948

Vorarbeiten zur Monographie der Campanulaceae. Lobelioideae II. Tribe Lobelieae. *Ann. Naturhist. Mus. Wien* 56 : 317-374.

Lobelia Linn.

LOB 8 Anthony, T. 1936

A remarkable alpine *Lobelia* from Bhutan. *Notes Roy. Bot. Gard. Edinb.* 19 : 175-176.

LOB 9 Chaubal, P. D. & Deodikar, G. B. 1963

Pollen grains of poisonous plants 1. Poisonous pollen in honey samples from Western Ghats (India). *Grana Palynol.* 4 : 393-397. *Lobelia nicotianaefolia.*

LOB 10 Mabberley, D. J. 1975

The giant Lobelias : pachycauly, biogeography, ornithophily and continental drift. *New Phytol.* 74(2) : 365-374.

LOB 11 Nair, K. K. N. 1978

A new species of *Lobelia* Linn. (Campanulaceae) from South India. *Proc. Indian Acad. Sci.* 87B : 105-107, 1 fig. The genus *Lobelia* emended ; *L. courtallensis* sp. nov. descr. from Tamil Nadu.

LOB 12 Shah, G. L. 1963

Lobelia chinensis from Bombay. *Curr. Sci.* 32 : 236, 1 fig. Synonymy, distr., notes ; key to *L. chinensis* & *L. alsinoides.*

LOB 13 Skottsberg, C. 1928

On some arborescent species of *Lobelia* from tropical Asia. *Acta Hort : Got-hob,* 4 : 1-26, fig. 1-31.

LOGANIACEAE (see also Buddlejaceae)
(includes Strychnaceae & Potaliaceae)

The family Loganiaceae is included in the order Gentianales by Bentham & Hooker. Cronquist, Dahlgren, Engler, Takhtajan and Thorne. It is considered under the order Loganiales by Hutchinson. Hutchinson segregated Strychnaceae as a separate family. The Strychnaceae is considered here as part of the family Loganiaceae as accepted by Cronquist, Dahlgren, Engler, Takhtajan and Thorne.

The Loganiaceae is characterised by opposite, stipulate entire leaves, bisexual 4-5-merous flowers, imbricate calyx lobes, 4-5 lobed tubular corolla, 4 or 5 epipetalous stamens, superior 2-carpellate 2-5 loculed ovary and ovules on axile placentation.

The family is classified into the following tribes which are recognised by some botanists as separate families : Potalieae, Antonieae (recognised as separate families by Takhtajan), Strychneae and Spigelieae (recognised as separate families by Hutchinson). The tribes Gelsemieae and Loganieae are accepted as the true representatives of the Loganiaceae. The subfamily Loganioideae has intraxylary phloem and simple hairs. While in the subfamily Buddleoideae the intraxylary phloem is absent and hairs are glandular or stellate. Hence Buddlejaceae is accepted as a separate family as proposed by Cronquist, Dahlgren, Engler, Hutchinson and Takhtajan. The family Loganiaceae is related to the families Apocynaceae and Rubiaceae. The family Buddlejaceae is also allied to Scrophulariaceae. In the Apocynaceae there is well developed latex system while in the Loganiaceae latex system is absent. Within the order Gentianales the closely allied family Gentianaceae has herbaceous habit, stipulate leaves, presence of glucoside gentiopicrin and mostly parietal placentation ; whereas in the Loganiaceae the plants are woody, leaves are stipulate, glucoside gentiopicrin is absent and the placentation is axile.

The family is represented in India by the following genera : *Fagraea, Gelsemium, Strychnos.*

For taxonomic studies refer Bisset (1974), Bisset & Philcox (1971), Bisset *et al* (1973), Leenhouts (1962, 1972) ; for cytological studies refer Gadella (1962, 1963). Moore (1947, 1948, 1949) ; for pollen morphology refer Punt & Leenhouts (1967).

LOG 1 Bentham, G. 1857

Notes on Loganiaceae. *Journ. Linn. Soc. Bot.* 1 : 52-114. Discussion and key to the genera.

LOG 2 Bureau, E. 1856

De la famille des Loganiacees et des plantes quielle fournit a' la medecine 1-147, 1 pl. fig. 1-67.

LOG 3 Candolle, A. de 1845

Loganiaceae. *In* : DC., *Prodr.* 9 : 1-37.

LOG 4 Gadella, T. W. J. 1962

Some cytological observation in the Loganiaceae. *Acta Bot. Neerl* 10 : 51-55.

LOG 5 Gadella, T. W. J. 1963

Cytological studies in the Loganiaceae. *Proc. Nederl. Akad. Wet.* C. 66 : 265-269.

LOG 6 Klett, W. 1924

Umfang und Inhalt der Loganiaceen. *In* : Mez, *Bot. Arch.* 5 : 312-338. Key to genera.

LOG 7 Leenhouts, P. W. 1962

Florae Malesianae precursores 33. Loganiaceae. *Bull. Jard. Bot. Brux.* 32 : 417-458.

LOG 8 Leenhouts, P. W. 1962

Loganiaceae. *In* : van Steenis, *Fl. Males. I,* 6 : 293-387.

LOG 9 Leenhouts, P. W. 1972

Loganiaceae. *In :* van Steenis, *Fl. Males. I,* 6 : 953-960. Additions & corrections.

LOG 10 Moore, R. J. 1947-1949

Cytotaxonomic studies in the Loganiaceae I-III. *Journ. Bot.* 34 : 527-538, 1947 ; *op. cit.* 35 : 404-410, 1948; *op. cit.* 36 : 511-516. 1949.

LOG 11 Punt, W. & Leenhouts, P. W. 1967

Pollen morphology and taxonomy in the Loganiaceae. *Grana Palynologica* 7(2-3) : 469-516.

LOG 12 Rehder, A. & Wilson, E. H. 1913

Loganiaceae. *In* : Sarg., *Pl. Wils.* 1 : 563-572.

LOG 13 Tirel-Roudet, C. 1972

Loganiaceae. *Fl. Camb. Laos & Vietn.* No. 13 : 3-89, 14 pl.

Gelsemium Juss.

LOG 14 Ornduff, R. 1970

The systematics and breeding system of *Gelsemium* (Loganiaceae). *Journ. Arn. Arb.* 51(1) : 1-17.

Strychnos Linn.

LOG 15 Bisset, N. C. 1974

The Asian species of *Strychnos* Part III. The ethnobotany *Lloydia* 37 : 62-107.

LOG 16 Bisset, N. G., Leenhouts, P. W., Leewenberg, A. J. M., Philcox, D., Tirel-Roudet, C. & Vidal, J. E. 1973

The Asian species of *Strychnos*—Part III. Typification, miscellaneous notes, synoptic key and sectional classification. *Lloydia* 36(2) : 179-201.

LOG 17 Bisset, N. G. & Philcox, D. 1971

Identification and clarification of *Strychnos colubrina* L. (Loganiaceae). *Taxon* 20(4) : 537-543. *S. colubrina* L. is conspecific with *S. wallichiana* Steud. ex DC.

LOG 18 Hill, A. W. 1911

Strychnos ignatii and other East Indian and Philippine species of *Strychnos*. *Kew Bull.* 1911 : 281-302, fig. 5.

LOG 19 Hill, A. W. 1917

The genus *Strychnos* in India and the East. *Kew Bull.* 1917 : 121-210.

LORANTHACEAE

(See also Viscaceae)

The Loranthaceae is included in the order Achylamydosporeae by Bentham & Hooker, in the order Santalales by Cronquist, Dahlgren, Engler, Hutchinson, Takhtajan and Thorne. The segregate family Viscaceae is considered here as a separate family as proposed by Dahlgren and Thorne.

The family Loranthaceae is characterised by its semiparasitic habit, plants attached to their hosts by suckers or haustoria, exstipulate opposite leaves, presence of *calyculus* (a characteristic rim below the perianth considered as an aberrant calyx and which others consider it as an outgrowth of axis), 2-3 merous perianth lobes in two series, stamens as many as perianth lobes, pollen usually trilobate, inferior ovary sunk in the receptacle, 1-loculed ovary, ovules which are numerous arising from a large central placental area and fruit which is drupaceous or pseudo-baccate. While in the family Viscaceae there is no calyculus and pollen is spherical. The tribe Nuytsieae which represents the genus *Nuytsia* is anomalous in the family Loranthaceae due to the absence of calyculus and presence of 3-winged fruits.

The family is represented in India by the following genera : *Dendrophthoe, Elytranthe, Helicanthes, Helixanthera, Hyphear, Loranthus, Macrosolen, Taxillus, Tolypanthus.*

For taxonomic revisions refer Barlow (1964), Barlow & Wiens (1971), Danser (1929, 1933, 1938), Wiens (1971); for morphology refer Dixit (1963), Johri & Bhatnagar (1972), Kujit (1981); for cytology refer Kumar & Abraham (1942).

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LYTHRACEAE

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The Lythraceae is characterised by 4-6-merous flowers. The petals are either present or when present the petals are crumpled. The stamens vary from as many or twice the number of sepals or sometimes more and they are inserted at different levels of the calyx-tube. The ovary is superior, 2 to 6 locular with ovules on axile placentation. The characteristic presence of bicollateral vascular bundles, the presence of heterostyle, petals when present with crumpled appearance distinguish the family Lythraceae from its allied families.

The lythraceous flora in India is represented by the following genera : *Ammannia, Hydrolythrum, Lagerstroemia, Lawsonia, Nesaea, Pemphis, Rotala, Woodfordia.*

The genus *Lafoensia* (*L. vandelliana* Cham. & Schlecht.) is cultivatel in India.

For taxonomic revisions refer Cook (1979), Furtado & Srisuko (1969), Panigrahi (1979); for palynology refer Huynh (1972); for cytotaxonomy, Ali (1977), Kumar *et al.* (1952) ; for comparative wood anatomy refer Baas & Zweypfenning (1979).

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Phyllodium Desv.

(Refer also *Desmodium*)

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