KEY WORKS TO THE TAXONOMY OF

FLOWERING PLANTS OF INDIA

M. P. NAYAR

VOLUME 5

BOTANICAL SURVEY OF INDIA

Kew Works to the Taxonomy of Flowering Plants of India by Dr. M. P. Nayar, M. Sc., Ph. D. (London), F.L.S., 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. The Fourth volume deals with families Magnoliaceae to Orchidaceae. The Fifth volume deals with families Orobanchaceae to Polygonaceae. 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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OROBANCHACEAE TO POLYGONACEAE

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 divised 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.

CALCUTTA-700 001. M. P. NAYAR

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The Evolution and Classification of Flowering Plants. Houghton Mifflin, Boston.

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A system of Classification of the Angiosperm to be used to demonstrate the distribution of characters. *Bot. Notiser* 128 : 119-147.

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

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The Families of Flowering plants. 2 volumes. Oxford University Press, Oxford.

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A Engler's Syllabus der Pflanzenfamilien Twelfth Edition : Vol. II. Gebreuder Borntraeger, Berlin.

Takhtajan, A. 1966
Systema et phylogenia Magnoliphytorum. Soviet Sciences Press, Moscow & Leningrad.

Thorne, R. F. 1968
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.

OROBANCHACEAE

The family Orobanchaceae includes about 14 genera and 180 parasitic species. The family is included in the order Scrophulariales by Cronquist, Dahlgren and Takhtajan. It is treated in the order Personales by Bentham & Hooker and Hutchinson. Engler considered it in the order Tubiflorae, while Thorne assigned it to the order Bignoniales.

The leaves of this parasitic family are reduced and they are without chlorophyll. The flowers are bisexual, zygomorphic 2-lipped. There are 4 epipetalous didynamous stamens. The ovary is superior, 2-3 carpelled, 1-loculed with parietal placentation. Seeds are small, endospermous with scarcely differentiated embryo.

The family is closely allied to Scrophulariaceae and the parasitic scrophulariaceous genus *Striga* resembles orobanchaceous family in its parasitic habit. The presence of iridoid compounds are considered as good taxonomic markers and the Scrophulariaceae—Bignoniaceae—Orobanchaceae form one complex. In the order Scrophulariales, different families are ecologically specialised to pollinators and ecological habitats. In this spectrum, the family Lentibulariaceae forms a group of insectivorous plants and the Orobanchaceae forms a group of parasitic plants.

The following genera occur in India : *Aeginetia, Boschniakia, Campbellia, Christisonia, Cistanche, Lathraea, Orobanche, Xylanche.*

For taxonomic revisions refer Guimaraes (1904), Jafri (1976), Smith (1933) ; for morphology refer Tiagi (1963) ; for palynology refer Rao (1963).

GENERAL

ORO 1 Beck-Mannagetta, G. 1930
Orobanchaceae. *In* : Engler, *Pflanzenr.* 96 (IV, 261) : 1-348, fig. 1-24.

ORO 2 Gamble, J. S. & Prain, D. 1901
Description of a new Himalayan genus of Orobanchaceae. *Journ. Asiat. Soc. Beng.* II, 59 : 488-499.

ORO 3 Guimaraes, J. d'A. 1904
Monographia das Orobanchaceas. *Broteria* 3 : 5-208, pl. 1-14. In Portuguese ; Latin descr., enumeration of species.

ORO 4 Jafri, S. M. H. 1976
Orobanchaceae. *Fl. W. Pakistan* 98 : 1-25.

ORO 5 Rao, T. S. 1963
Pollen morphology of two species of Orobanchaceae. *Curr. Sci.* 32 : 557-558.

ORO 6 Reuter, G. F. 1847
Orobanchaceae. *In* : DC., *Prodr.* 11 : 1-45. Monographic.

ORO 7 Smith, H. 1933
Orobanchaceae. *In* : Smith, H., *Plantae sinensis. Act. Hort. Gothob.* 8 : 127-146, pl. 1-3, fig. 1-5.

Aeginetia Linn.

ORO 8 Chavan, A. R., Bedi, S. J. & Sabnis, S. D. 1961
Some observations on a root parasite—*Aeginetia indica* Linn. *Curr. Sci.* 30 : 191-192, 1 fig.

ORO 9 Livera, E. J. 1927
Aeginetiaceae, a new natural family of flowering plants. *Ann. Roy. Bot. Gdn. Peradeniya* 10 : 145-159.

ORO 10 Padte, S. N., Patel, H. & Joshi, J. V. 1978
Notes on *Aeginetia indica* Linn. *Geobios (Jodhpur)* 5(2) : 95-96.

ORO 11 Rao, R. S. 1961
Aeginetia indica L. *Curr. Sci.* 30 : 244,

ORO 12 Stapf, O. 1925
Aeginetia indica. *Curtis's Bot. Mag.* 150 : pl. 9041.

ORO 13 Venkatramani, K. S. 1961
Hosts of the root parasite *Aeginetia indica* Linn. *Curr. Sci.* 30 : 319. Host plant—bamboos.

Boschniakia C. A. Mey

ORO 14 Tiagi, B. 1963
Studies in the family Orobanchaceae IV. Embryology of *Boschniakia himalaica* Hook. and *B. tuberosa* (Hook.) Jepson, with remarks on the evolution of the family. *Bot. Notis.* 116 : 81-93.

Christisonia Gardn.

ORO 15 Erady, N. A. 1967
A new species of *Christisonia* Gardn. from South India. *Journ. Bombay Nat. Hist. Soc.* 64 : 10-12. *C. keralensis* descr. from Kerala.

Orobanche Linn.

ORO 16 Achey, D. M. 1933
A revision of the section *Gymnocaulis* of the genus *Orobanche*. *Bull. Torrey Bot. Club* 60 : 441-451.

ORO 17 Beck-Mannagetta, G. 1890
Monographie der Gattung *Orobanche*. *Bibl. Bot.* 4[i-iv], 1-275, pl. 1-4, 3 maps.

ORO 18 Dagar, J. C. 1981
A note on some new hosts of *Orobanche aegyptica* Pers. *Journ. Bombay Nat. Hist. Soc.* 78(3) : 626.

ORO 19 Pillai, R. V. R. 1977
Chromosome number of *Orobanche indica* Hain-Buch. *Sci. & Cult.* 43(6) : 273-274.

ORO 20 Pugsley, H. W. 1940
Notes on *Orobanche*. *Journ. Bot. (Lond.)* 78 : 105-116.

ORO 21 Vaucher, J. P. 1927
Monographie des Orobanches i-ii, 1-72. Geneve.

Xylanche G. Beck.

ORO 22 Ozenda, P. & Capdepon, M. 1978
Recherches sur les phanerogames parasites 6. Une *Orobanchacee* himalayana subalpine *Xylanche himalaica* (Hook. f. et Thoms.) G. Beck. *Bull. Soc. Bot. France* 125(7-8) : 379-388.

OXALIDACEAE

(Refer also Geraniaceae)

The family Oxalidaceae consists of about 3 genera and 875 species, mostly perennial herbs. The family is included in the order Geraniales by Cronquist, Dahlgren, Engler, Hutchinson, Takhtajan and Thorne. It is considered under the family Geraniaceae by Bentham & Hooker.

The family is characterised by pinnate or digitate exstipulate leaves, bisexual regular 5-merous flowers. Stamens are 10, obdiplostemonous and ovary is superior, 5-carpelled with 5-loculed ovary with free styles and ovules are on axile placentation. The fruit is a capsule and seeds are endospermous.

The main families of Geraniales (i.e.) Oxalidaceae, Geraniaceae, Erythroxylaceae, Humiriaceae, Linaceae and Zygophyllaceae form a homogenous group with similar ovule and seed structures. According to Dahlgren (1983) the affinities of Geraniales to Theales are not fully settled as the obdiplostemonous flowers in the Geraniales are a basic state while in the Theales they are multistaminate. The ovules in the Geraniales are often crassinucellate, while in the Theales they are often tenuinucellate. However Thorne considers that Geraniales are derivaties of Theales. According to Dahlgren (1983), the Balsaminaceae form a separate order Balsaminales due to their lack of glucosinotales, their cellular or helobial endosperm formation and terminal endosperm haustoria.

The family is represented in India by the following genera : *Biophytum, Oxalis.*

For taxonomic revisions refer Calder (1919), Eiten (1963), Lourteig (1979), Veldkamp (1971) ; for palynology refer Huynh (1969), Oltmann (1971).

GENERAL

OXL 1 Chauvel, F. 1903
Recherches sur la famile des Oxalidacees 1-207, frontisp. f. 1-30. Mainly morphological.

OXL 2 Huynh, K. L. 1969
Etude due pollen des Oxalidaceae I. Morphologie generale. Palynotaxonomic des Oxalis americains. *Bot. Jb.* 89(2) : 272-303.

OXL 3 Huynh, K. L. 1969
Etude du pollen des Oxalidaceae II. Palynotaxonomie des Oxalis sud-africains—Considerations generales. *Bot. Jb.* 89(3) : 305-334.

OXL 4 Knuth, R. 1914
Ein Beitrag sur Systematik und geographischen Verbreitung der Oxalidaceen. Engler, *Bot. Jahrb.* 50 : Suppl. 215-237, fig. 1-5. Discussion and key to the genera.

OXL 5 Knuth, R. 1930
Oxalidaceae. *In* : Engler, *Pflanzenr.* 95(IV, 130): 1-481, fig. 1-28.

OXL 6 Knuth, R. 1931
Oxalidaceae. *In* : Engler & Prantl, *Pflanzenf. ed.*, 2. Bd. 19a : 11-42, 457.

OXL 7 Lourteig, A. 1979
Oxalidaceae extra-Austro-americanae II. *Oxalis* L. sectio *Corniculatae* DC. *Phytologia* 42 : 57-198. Key to 19 spp.

OXL 8 Oltmann, O. 1971
Pollen morphologisch systematische Untersuchungen innerhalb der Geraniales. Lehre. J. Cramer 1-161. Oxalidaceae treated in p. 57-88.

OXL 9 Thathachar, T. 1942
Studies in Oxalidaceae. *Journ. Indian Bot. Soc.* 21 : 21-31.

OXL 10 Veldkamp, J. F. 1971
Oxalidaceae. *In* : van Steenis, *Fl. Males.* I, 7 : 151-178.

Biophytum DC.

OXL 11 Malick, K. C. & Safui, B. 1979
Field characters of two species of *Biophytum sensitivum* & *B. petersianum. Bull. Bot. Surv. India* 21 : 209-210.

OXL 12 Nair, R. V. 1974
Observations on the breeding mechanism of *Biophytum candolleanum* Wt. *Journ. Bombay Nat. Hist. Soc.* 71(1) : 99-108.

OXL 13 Veldkamp, J. F. 1968
Revalidation of African *Biophytum helenae* Busc. & Musch (Oxalidaceae). *Blumea* 16 : 137-138. Key to *B. sensitivum* & *B. helenae* ; synonymy.

Oxalis Linn.

OXL 14 Calder, C. C. 1919
The species of *Oxalis*, now wild in India. *Rec. Bot. Surv. India* 6 : 325-341. Key to spp.

OXL 15 Eiten, G. 1963
Taxonomy and regional variation of *Oxalis* section Corniculatae 1. Introduction, key and synopsis of the species. *Amer. Midl. Nat.* 69 : 257-309.

OXL 16 Ingram, J. 1958
The cultivated species of *Oxalis* 1. The caulescent species. *Baileya* 6 : 23-32.

OXL 17 Ingram, J. 1959
The cultivated species of *Oxalis* 2. The acaulescent species. *Baileya* 7 : 11-23.

OXL 18 Nakai. T. 1913
[The difference between *Oxalis corniculata* and *O. stricta*]. *Bot. Mag. Tokyo* 27 : 164. A brief note.

OXL 19 Ornduff, R. 1972
The breakdown of trimorphic incompatibility in *Oxalis* section *Corniculatae. Evolution* 26(1) : 52-65.

OXL 20 Paul, S. R. 1979
Oxalis latifolia HBK. in Indo-Malaysia. *Geophytology* 9 : 184-188, map 1.

PAEONIACEAE

(Refer also Ranunculaceae)

The family Paeoniaceae is monogeneric (*Paeonia*) with about 33 species which are mainly rhizomatous herbs or shrubs. The family is included in the order Dilleniales by Cronquist, in the order Paeoniales by Dahlgren and Takhtajan, in the order Theales by Thorne. However Engler considered it in the Guttiferales, while Hutchinson treated it in the order Ranales. Bentham & Hooker however included it in the family Ranunculaceae.

The family is characterised by alternate biternate exstipulate leaves and large flowers. The flowers are regular, bisexual and 5-merous or in multiples of 5. Stamens are numerous and centrifugal, dehiscing by longitudinal slits and extrorse. The disk is fleshy and form a girdle enveloping the ovary. The ovary is 2-5-carpelled, free, fleshy. Fruit is ventrally dehiscent 2 to 5 follicles and seeds are large and with fleshy endosperm and arillate.

According to Airy-Shaw the family is related to Ranunculaceae, but differs in having a disk, in the nature of centrifugal dehiscence of stamens and in the large arillate seeds.

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

GENERAL

PAE 1 Gregory, W. C. 1941
Phylogenetic and cytological studies in the Ranunculaceae. *Trans. Am. Phil. Soc. n. ser.* 36 : 443-521. Cytological isolation of *Paeonia* from the family Ranunculaceae.

PAE 2 Hammond, H. D. 1955
Systematic serological studies in Ranunculaceae. *Serol. Mus. Bull.* 14 : 1-3. Serological isolation of *Paeonia* from the family Ranunculaceae.

PAE 3 Hiepko, P. 1965
Das Zentrifugale Androecium der Paeoniaceae. *Ber. Deuts. Bot. Ges.* 77 : 427-435.

PAE 4 Hiepko, P. 1966
Zur Morphologie, Anatomie and Function des Diskus der Paeoniaceae. *Ber. Deuts. Bot. Ges.* 79 : 233-245.

PAE 5 Nasir, Y. J. 1978
Paeoniaceae. *Fl. W. Pakistan* No. 121 : 1-3, fig. 1.

PAE 6 Rau, M. A. 1978
Paeoniaceae. *Fasc. Fl. India No.* 1 : 5-8. Descr. of the genus *Paeonia* with one species.

Paeonia Linn.

PAE 7 Anderson, G. 1818
A monograph of the genus *Paeonia. Trans. Linn. Soc.* 12 : 248-290.

PAE 8 Andre, E. 1884
Les Pivoines. *Rev. Hort.* (Paris) 1884 : 486-488, 510-514. A taxonomic treatment of 22 known spp. of *Paeonia.*

PAE 9 Andre, E. 1899
Paeonia obovata. Rev. Hort. (Paris) 1899 : 565-566. A general discussion.

PAE 10 Anonymous, 1903
The tree paeony. *Flora & Sylva* 1 : 122-124. General notes, mainly horticultural.

PAE 11 Baker, J. G. 1884
Paeonies. *Gard. Chron. n. ser.* 21 : 732; 779-780; 828-830; 22 : 9-10. Monographic.

PAE 12 Davezac, T. 1957
La place systematique du genre *Paeonia* et forme de jeunesse de *P. lusitanica* Mill. *Bull. Soc. Hist. Nat. Toulouse* 92 : 197-201. A phylogenetic consideration.

PAE 13 Fang, Wen-pei 1958
Notes on Chinese paeonies. *Act. Phytotax. Sin.* 7 : 313-324. pl. 61-63.

PAE 14 Harding, A. 1917
The book of the peony 1-259, 43 pl. A botanical and horticultural study.

PAE 15 Hoffmann, J. 1849
Notes relating to the history, distribution and cultivation of the paeony in China and Japan. *Paxton's Mag. Bot.* 16 : 85-89, 190-114.

PAE 16 Hsia, Wei-K'un 1936
Paeonia in China. *Journ. Bot. Soc. China* 3 : 1163-1172, 1 pl. In Chinese.

PAE 17 Huth, E. (1891) 1892
Monographie der Gattung *Paeonia*. *Bot. Jahrb.* 14 : 258-276. Recognises 14 spp.

PAE 18 Kumazawa, M. 1935
The structure and affinities of *Paeonia*. *Bot. Mag. Tokyo* 49 : 306-315. In Japanese.

PAE 19 Lynch, R. I. 1890
A new classification of the genus *Paeonia*. *Journ. Roy. Hort. Soc. (London)* 12 : 428-445. A synopsis of 25 spp.

PAE 20 Poiteau, A. 1839
Revue des pivoines ligneuses. *Ann. Soc. Hort. Paris* 24 : 330-341. A review of the cultivated woody spp. of *Paeonia*.

PAE 21 Saunders, A. P. 1931
Some Asiatic peonies. *New Fl. & Silva* 3 : 234-243; 4 : 56-61. General notes.

PAE 22 Saunders, S. 1934
A portfolio of peony species. *Nat. Hort. Mag.* 1934 : 213-233. Photographs of cultivated species of *Paeonia*.

PAE 23 Schipczinskii, N. 1921
[A synopsis of the genus *Paeonia* (Tourn.) L.] *Not. Syst. Herb. Hort. Petrop.* 2 : 41-47. In Russian; key to 21 spp.

PAE 24 Stern, F. C. 1931
Peony species. *Journ. Roy. Hort. Soc. (London)* 56 : 71-77. Includes general notes on Chinese and himalayan spp. of *Paeonia*.

PAE 25 Stern, F. C. 1939
The Moutan paeony. *Journ. Roy. Hort. Soc. (London)* 64 : 550-552. 2 pl. Mainly a review.

PAE 26 Stern, F. C. 1943
Genus *Paeonia*. *Journ. Roy. Hort. Soc. (London)* 68 : 124-131.

PAE 27 Stern, F. C. 1944
Geographical distribution of the genus *Paeonia*. *Proc. Linn. Soc. London* 155 : 76-80. Distribution of diploid and tetraploid spp.

PAE 28 Stern, F. C. 1946
A study of the genus Paeonia, i-viii, 1-155, 15 col. pl. Monographic; for review refer Stebbins, G. L., Madrono 9 : 193-199. 1948.

PAE 29 Stern, F. C. & Taylor, G. 1951
A new peony from S. E. Tibet. *Journ. Roy. Hort. Soc. (London)* 76 : 216-217. *Paeonia lutea* var. *ludlowii* var. nov.

PAE 30 Stern, F. C. & Taylor, G. 1953
Paeonia lutea var. *ludlowii*. *Curtis's Bot. Mag.* 169 : pl. 209. A new variety native of S. E. Tibet.

PAE 31 Stebbins, G. L. 1939
Notes on some systematic relationships in the genus *Paeonia*. *Univ. Calif. Publ. Bot.* 19 : 245-266, fig. 1-13.

PAE 32 Wister, J. C. 1941
The Moutan tree peony. *Nat. Hort. Mag.* 20 : 173-177. Mainly horticultural notes on *Paeonia suffruticosa*.

PAE 33 Worsdell, W. C. 1908
The affinities of *Paeonia*. *Journ. Bot. (Lond.)* 46 : 114-116.

PAE 34 Zhgenti, L. 1969
Etude palynologique de certaines especes du genre *Paeonia*. (en georgien). *Inst. Bot. Trudy Kult. Flora, Tbilisin* 26(3) : 49-54.

ADDITIONS : GENERAL

PAE 35 Melville, R. 1983
The affinity of *Paeonia* and a second genus of Paeoniaceae. *Kew Bull.* 38(1) : 87-105.

PALMAE

(*nom alt.* Arecaceae)

The family Palmae is arranged in the order Arecales by Cronquist, Takhtajan and Thorne, in the order Principes by Engler. However Bentham & Hooker considered the family in the order Calycinae and Hutchinson assigned it in the order Palmales.

The family consists of about 217 genera and 2500 species distributed in the tropics and subtropics. The palms are characteristic with their slender stems and large crowns that many species are cultivated for ornamental purposes. In fact Linnaeus called this family Principes-Princes among plants. While the genera *Calamus*, *Desmoncus* have thin reed like stems, whereas the *Nypa*, a typical palm growing in intertidal mangrove interphases has a short rhizome.

The leaves are either palmate fan-like or pinnate. The inflorescence is much branched and it is embedded in the axis spadix. The spadix is enclosed in a spathe of several leaves. The palms have 3-merous flowers, with 3+3 perianth, 3+3 androecium and 3 gynoecium. The fruit is berry or a drupe. According to Drude (1887), the following tribes are recognised based on the main classification perianth 6-partite and perianth rudimentary. Under the perianth 6-partite the following subfamilies are recognised: Coryphoideae, Borassoideae, Lepidocaryoideae, Arecoideae. Under the perianth rudimentary, the following subfamilies are recognised: Phytelephantoideae and Nypoideae. Beccari & Pichi-Sermolli raised the tribe Cocoeae to the rank of subfamily Cocoideae, while Burret (1953) placed the subfamily Phytelephantoideae into the subfamily Arecoideae. Tomlinson (1961) on the basis of anatomical evidences showed that there is no affinity between the subfamilies Phytelephantoideae and Nypoideae. Moore (1960, 1963, 1973, 1979) and later on Moore and Dransfield (1979) worked on the classification and distribution of palms.

The palms are useful and economically important plants : *Cocos nucifera* is called in India *Kalpa Vriksha* (tree of heaven). The oil palm

(*Elaeis guineensis*) native of W. Africa is introduced in several countries as oil yielding plant. The Brazilian babassu palms (*Orbignya martiana, O. oleifera*), Salaca of Indonesia (*Salaca edulis*) growing in marshy soil yield nuts which contains oils. The arecanut of commerce which has stimulating alkaloids comes from the palm *Areca catechu*. Some of the palms have rich edible pith and sago is obtained by cutting the trunks (*Metroxylon rumphii*). The Palmyra palm (*Borassus flabellifer*) yield edible fruits and seeds and the inflorescence sap yields sugar and local toddy or wine. The basket and furniture of durable quality are made from the stems of several species of *Calamus*. In Malaysia *Arenga pinnata* yields sago and palm sugar. The Doum plant (*Hyphaene thebaica*) is a branching palm of interest. There are several species of ornamental palms cultivated in tropical gardens : *Trachycarpus fortunei, Washingtonia filifera*, Howe's palms (*Howea belmoreana*). The Double cocoanut *Lodoicea maladivica*, has the distinction in having the biggest known fruits (35-40 lbs.). *Copernicia cerifera* Fan palm-of-Brazil, yields Carnuba wax for making floor and shoe polish. *Daemonorops draco* native of Sumatra is called "Indian dragon's blood" because of red resin.

According to Harris & Hartley (1980) that ferulic acid and p-coumaric acid is the palm studied (*Cocos nucifera*).

The following genera are cultivated in India : *Acanthopoenix, Acoelorrhaphe, Actinorhytis, Aiphanes, Arikuryroba, Attalea, Bactris, Butia, Ceroxylon, Chamaerops, Chrysalidocarpus, Coccothrinax, Dictyosperma, Didymosperma, Elaeis, Euterpe, Copernicia, Heterospathe, Korthalsia, Latania, Lodoicea, Metroxylon, Oncosperma, Orbignya, Pritchardia, Ptychosperma, Phoenicophorium, Raphis, Roystonea, Sabal, Scheele, Thrinax, Washingtonia.*

The following genera occur in India : *Areca, Arenga, Borassus, Bentinckia, Calamus, Caryota, Cocos, Corypha, Daemonorops, Eleiodoxa, Hyphaene, Licula, Livistona, Nannorrhops, Ptychoraphis, Phoenix, Plectocomia, Pinanga, Salacca, Trachycarpus, Wallichia.*

GENERAL

PAL 1 Bailey, L. H. 1930
Binomials of certain palms. *Gentes Herb.* 2 : 187-199.

PAL 2 Bailey, L. H. 1933
Palms and their characteristics. *Gentes Herb.* 3 : 1-29.

PAL 3 Basu, S. K. 1973
Palms in landscape gardening : Vanasova. *Journ. Friend Trees* 1973 : 22.

PAL 4 Basu, S. K. 1975
Landscape with palms. *Hort. Bull.* 7(2) : 1-4.

PAL 5 Basu, S. K. & Basu, Saibal (1975) 1978
A census of palms cultivated in the Indian Botanic Garden, Howrah. *Bull. Bot. Surv. India* 17 : 32-40.

PAL 6 Beccari, O. 1885
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PANDANACEAE

The family Pandanaceae consists of 3 genera and about 700 species, mainly occurring in the Old World tropics. The genus *Pandanus* commonly known as Screwpines and they grow along coasts and also in forests.

The family Pandanaceae is included in the order Pandanales by Cronquist, Dahlgren, Engler, Thorne and Hutchinson. It is included in the order Nudiflorae.

The leaves are in threes and stem is usually twisted and hence the name screwpines. The family Pandanaceae are dioecious and the flowers lack a perianth. The inflorescence is usually a racemose spadix and the numerous stamens are densely packed. Whereas the pistils are not dense. Each fruit bears multicarpelled ovary, ripening into a drupe.

The plants are of economic importance. The leaves are used for thatching and the fruits of some species are edible. In Nicobar islands, the Nicobar bread-fruit (*Pandanus leram*) is commonly used. *Pandanus odoratissimus* has sweet-scented flowers.

According to Dahlgren (1983) there are "great number of differences between these genera, especially *Pandanus* and *Freycinetia*. Further comparative studies of these and the third genus *Sararanga* are needed".

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PAPAVERACEAE

The species of the family Papaveraceae, the name derived from the genus *Papaver*, commonly known as Poppies have become a part of human civilization from time immemorial through their beautiful flowers, their utility in medicine.

The family comprises about 26 genera and 200 species and they occur in temperate and subtropical regions of the Old and New World.

Bentham & Hooker placed the family in the order Parietales. Engler & Prantl placed it under a separate order Papaverales which is also supported by Takhtajan (1966) and Cronquist. Hutchinson classified this family under the order Rhoeadales, while Thorne (1968) placed it under the order Berberidales.

The family Papaveraceae is circumscribed as per the modern concept and the genera included in the subfamilies Fumarioideae and Hypecoideae are considered as separate families and hence not included.

The leaves are alternate, rarely opposite or whorled. The inflorescence is usually showy, mostly solitary, rarely subumbellate or paniculate. The calyx are of 2, rarely 3 sepals. Petals are 4-6 (rarely 8-12) arranged in 1 to 2, rarely 3 whorls. Stamens are numerous in several whorls and free. The ovary is superior, unilocular rarely bilocular, 2-many carpels, ovules are numerous in each locule. The fruits are capsular dehiscent or indehiscent by 2 valves rarely 3-6 valved or by pores opening below the disc like stigma.

According to Hegnauer (1963) benzylisoquinoline alkaloids were important characters in closely keeping a number of families to the Magnolidae which includes the Papaveraceae and the Aristolochiaceae. Wettstein (1935) once placed Papaveraceae in the group of glucosinolate containing families (i.e.) Capparaceae, Brassicaceae and Resedaceae in the order Rhoedales. The absence of glucosinolates and the presence of benzylisoquinolines in the Papaveraceae certainly indicates its alliance to the Magnolidae.

The genera occurring in India are *Argemone, Dicranostigma, Eschscholtzia, Glaucium, Roemeria, Papaver, Meconopsis.*

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PAP 74 Malik, C. P. & Mary, T. N. 1973
Cytogenetic studies in *Papaver* IV. Trisomic in garden poppy. *Chromosome Information Service* 15 : 34-35.

PAP 75 Malk, C. P. & Mary, T. N. 1975
Cytogenetic studies in *Papaver* : 6. Chromosome relationships between *Papaver* species of the section *Orthorhoeades* (*P. syriacum* f. *adpresso setulosus* and *P. rhoeas* and their amphiploids). *Cytologia* 40(2) : 333-345. Chrom. nos.

PAP 76 Malik, C. P., Mary, T. N. & Grover, I. S. 1979
Cytogenetic studies in *Papaver* 5. Cytogenetic studies on *P. somniferum* × *P. setigerum* hybrids and amphidiploids. *Cytologia* 44(1) : 59-69. Chrom. nos.

PAP 77 Mary, T. N. & Malik, C. P. 1973
Cytogenetic studies in Papaver-3. Induced polyploids in some *Papaver* species. *Chromosome Inform. Ser.* No. 15 : 27-29. Chrom. nos.

PAP 78 Nessler, C. L. & Mahlberg, P. G. 1976
Laticifers in the stamens of *Papaver somniferum* L. *Planta* 129 (1) : 83-85.

PAP 79 Newton, W. C. F. 1929
The inheritance of flower colour in *Papaver rhoeas* and related forms. *Journ. Genet.* 21 : 389-404.

PAP 80 Novak, J. 1979
[Taxonomic revision of Papaver section *Macrantha*]. *Preslia* 51(4) : 341-348. Chrom. nos. ; key.

PAP 81 Stermitz, F. R. 1968
Alkaloid chemistry and the systematics of *Papaver* and *Argemone. Recent Advances Phytochem.* 1 : 161-183.

PAP 82 Stermitz, F. R. & Rapaport, H. 1961
The biosynthesis of Opium alkaloids. *Amer. Chem. Soc.* 83 : 4045.

PAP 83 Vesselovskaya, M. A. 1933
The Poppy, the classification and its importance as an oleiferous crop. *Bull. Appl. Bot. & Pl. Breed. Suppl.* 56 : [1-2], 1-213, i-xxii, pl. 1-3, fig. 1-58, 1 text map. Monograph in Russian.

GENERAL

PAP 84 Hegnauer, R. 1963
The taxonomic significance of alkaloids.— *In* : Swain, T. (ed). *Chemical plant taxonomy. Academic, London,* 389-427.

PAP 85 Wettstein, R. 1935
Handbuch der systematischen Botanik, ed. 4. Deuticke, Leipzig.

PARNASSIACEAE

(Refer also Saxifragaceae)

The family Parnassiaceae is a monotypic family represented by the genus *Parnassia* consisting of about 50 species occurring in the north temperate regions. The family Parnassiaceae is included in the family Saxifragaceae by Cronquist, Thorne, Engler and Bentham & Hooker. However, Hutchinson and Takhtajan recognised it as a separate family.

The family is characterised by the genus *Parnassia* which is a perennial herb with rootstock. The leaves are simple and exstipulate and they have tannin containing cells in the epidermis. The flowers

are bisexual and 5-merous. The gynoecium is 3-4 and semi-inferior with one loculed, ovules are borne on parietal placenta. The flowers are protandrous. The staminodes have nectar secreting base.

The family is represented in India by the genus *Parnassia* occurring in alpine bogs.

PAR 1 Handel-Mazzetti, H. 1941
Die Chinesische *Parnassia*—Arten. *Oesterr. Bot. Zeitschr.* 90 : 127-136. A key and synopsis.

PAR 2 Rydberg, P. A. 1905
Parnassiaceae. *North Amer. Flora* 22 : 77-80.

PASSIFLORACEAE

The family Passifloraceae consists of 12 genera and 600 species mostly of climbers with axillary tendrils, herbs and shrubs. The leaves are alternate and stipulate and flowers are usually with androgynophore or gynophore. There are outgrowths called corona which are petaloid or staminodial. The calyx consists of 3-5 sepals and corolla consists of 3-5 petals. The gynoecium is 3 carpelled and 1-loculed with parietal placentation. The seeds are with fleshy aril and endospermous.

The family Passifloraceae is kept in the order Violales by Cronquist and Engler. While the family Passifloraceae is assigned to the order Passiflorales by Bentham & Hooker, Hutchinson and Takhtajan. Thorne however considered the family under the order Cistales.

According to Kolbe & John (1979) that the families with hypogynous flowers (Passifloraceae, Violaceae, Turneraceae, Flacourtiaceae) are separable serologically from the families with epigynous flowers (Begoniaceae, Cucurbitaceae and Datiscaceae). Species of both Passifloraceae and Flacourtiaceae form cyanogenic compounds.

GENERAL

PAS 1 Ayensu, E. S. & Stern, W. L. 1964
Systematic anatomy and ontogeny of the stem in Passifloraceae. *Contr. U. S. Natl. Herb.* 34 : 45-73.

PAS 2 Brizicky, G. K. 1961
The genera of Turneraceae and Passifloraceae in the south eastern United States. *Journ. Arn. Arb.* 42 : 204-218.

PAS 3 Chakravarty, H. L. 1949
A revision of the Indian Passifloraceae. *Bull. Bot. Soc. Bengal* 3(1) : 45-71.

PAS 4 Cusset, G. 1967
Les Passifloracees asiatiques. *Adansonia* 7 : 371-385. Key to 16 spp., distr.

PAS 5 Cusset, G. 1967
Passifloraceae. *Fl. Camb., Laos & Vietn.* No. 5 : 101-152, pl. I-VII.

PAS 6 Ghafoor, A. 1974
Passifloraceae. *Fl. W. Pakistan* No. 66 : 1-5.

PAS 7 Harms, H. 1925
Passifloraceae. *In* : Engler & Prantl, *Pflanzenf. ed.* 2 : 470-507.

PAS 8 Hagerup, O. 1930
Vergleichende morphologische und systematische studien uber die Ranken und andre vegetative. Organe dei Cucurbitaceen und Passifloraceen. *Dansk Bot. Ark.* 6(8) : 1-103.

PAS 9 Hegnauer, R. 1969
Chemotaxonomie der Pflanzen (Passifloraceae) 5 : 293-298.

PAS 10 Killip, E. P. 1938
The American species of Passifloraceae. *Field Mus. Nat. Hist. Bot.* 19 : 1-613. Key.

PAS 11 Masters, M. T. 1871
Contributions to the natural history of the Passifloraceae. *Trans. Linn. Soc.* 27 : 593-645, pl. 64, 65. 1 fig.

PAS 12 Presting, D. 1964
Die Systematik der Passifloraceen aus pollen morphologischer sicht. *Ber. dtsch Bot. Ges.* 77, Sondernummer p. 40.

PAS 13 Presting, D. 1965
Zur Morphologie der Pollen korner der Passifloraceen. *Pollen et Spores* 7(2) : 193-247.

PAS 14 Puri, V. 1948
Studies in floral anatomy V. On the structure and nature of the corona in certain species of the Passifloraceae. *Journ. Ind. Bot. Soc.* 27 : 130-149.

PAS 15 Rehder, A. & Wilson, E. H. 1915
Passifloraceae. *In* : *Sarg. Pl. Wils.* 2 : 408.

PAS 16 Spirlet, M. L. 1965
Utilisation taxonomique des grains de pollen de Passifloracees-I. *Pollen & Spores* 7(2) : 249-301.

PAS 17 Wilde, W. J. J. O. de 1971
The systematic position of tribe *Paropsieae*, in particular the genus *Ancistrothyrsus* and a key to the genera of Passifloraceae. *Blumea* 19 : 99-104, 1 fig. Key to the distinction of Flacourtiaceae and Passifloraceae.

PAS 18 Wilde, W. J. J. O. de 1972
Passifloraceae. *In* : van Steenis, *Fl. Males.* I, 7 : 405-434, 12 fig. Revision and a key to the introduced spp. of *Passiflora*.

PAS 19 Wilde, W. J. J. O. de 1972
The indigenous Old World Passifloras. *Blumea* 20 : 227-250. Revision ; key to 20 spp., descr., ecol., notes.

PAS 20 Wilde, W. J. J. O. de 1974
The genera of the tribe Passifloreae (Passifloraceae) with special reference to flower morphology. *Blumea* 22 : 37-50. Staminodial origin of disk in the tribe Passifloreae.

Adenia Forsk.

PAS 21 Glass, C. & Foster, R. 1973
The succulent passion flowers. *Cact. Succ. Journ.* (USA) 45(2) : 74-84.

PAS 22 Wilde, W. J. J. O. de 1967
Two new combinations in Asian *Adenia*. *Blumea* 15 : 265-266. **A. penangiana** (Wall. ex G. Don) de Widle for *A. nicobarica* Kurz ; **A. hondala** (Gaertn.) de Wilde for *A. palmata* (Lamk.) Engl.

PAS 23 Wilde, W. J. J. O. de 1971
A monograph of the genus *Adenia* Forsk. (Passifloraceae). *Meded. Landbouwhogeschool, Wageningen* 71 : 1-281, 44 fig. Revision, 92 spp., keys, distr., notes.

Passiflora Linn.

PAS 24 Huynh, K. L. 1972
Etude de l' arrangement du pollen dans la tetrade Chez les Angiospermes sur la base de donnee cytologiques-IV. Le genre *Passiflora*. *Pollen et Spores* 14 : 51-60.

PAS 25 Larson, D. A. 1966
On the significance of the detailed structure of *Passiflora caerulea* exines. *Bot. Gaz.* 127(1) : 40-48.

PAS 26 Lawrence, G. H. M. 1960
Identification of the cultivated Passion flowers. *Baileya* 8 : 121-132, fig. 52-54.

PAS 27 Marshall, E. D. 1973
Where are the plants of yester year ? : the Passifloras. *Calif. Hort. Journ.* 34(4) : 146-153.

PAS 28 Wilde, W. J. J. O. de 1972
The indigenous Old World Passifloras. *Blumea* 20(1) : 227-250. Revision ; key to 20 spp.

PEDALIACEAE

(Refer also Martyniaceae)

The family Pedaliaceae consists of 12 genera, 50 species occurring in S. Africa, Madagascar and Indomalaya. They are mostly herbs and rarely shrubs. The flowers are solitary or in cymes with glands at the base of the stalks. The flowers are pentamerous and stamens are 4 in number and didynamous. The gynoecium is 2-carpelled with 2-4 locules, sometimes 1-loculed due to the false septa.

The family Pedaliaceae is assigned to the order Scrophulariales by Cronquist and Takhtajan. However Takhtajan distinguished the family Martyniaceae from the Pedaliaceae. The chief distinctions are in the nature of placentation, calyx, fruit and glandular hairs. While Hutchinson and Thorne considered the family in the order Bignoliales. Engler placed it in the order Tubiflorae. Bentham & Hooker assigned it in the order Personales. The family is closely allied to the families Bignoniaceae and Martyniaceae.

The genus *Sesamum* is of great economic importance as gingely oil is derived from its seeds.

GENERAL

PED 1 Backer, C. A. 1951
Pedaliaceae. *In* van Steenis, *Fl. Males.* I 4 : 216-221, fig. 1-3.

PED 2 Bruce, E. A. 1953
Notes on African Pedaliaceae. *Kew Bull.* 1953 : 417-429.

PED 3 Kolbe, K.-P. & John, J. 1979
Serologische Untersuchungen Zur Systematik der Violales. *Bot. Jahrb. Syst.* 101 : 3-15.

PED 4 Parvati, A. & Narayana, L. L. 1978
Chemotaxonomy of a few taxa of Pedaliaceae. *Curr. Sci.* 47(8) : 282-283. As per chemotaxonomy the separation of Martyniaceae is not supported. This is consistent with the view of Cronquist who included Martyniaceae in the family Pedaliaceae.

PED 5 Straka, H. & Ihlenfeldt, H. D. 1965
Pollen morphologie und Systematik der Pedaliaceae R. Br. *Beiter. Biol. Pfl.* 41 : 175-207.

PED 6 Theobald, W. L. & Grupe, D. A. 1973
Pedaliaceae, *Revised Fl. Ceylon* 1 : 82-86, fig. 1. Keys.

Sesamum Linn.

PED 7 Appala Naidu, B. 1953
A new species of *Sesamum. Journ. Bombay Nat. Hist. Soc.* 51(3) : 697-698. *Sesamum ekambaramii* Naidu from Tamil Nadu.

PED 8 Baluch, M. A., Natali, A. H. & Majidano, B. A. 1966
Botanical collection of *Sesamum* (*Sesamum indicum* L.) *W. Pakistan Journ. Agric. Res.* 4 : 58-67.

PED 9 Bennet, S. S. R. 1974
Occurrence of *Sesamum mulayanum* Nair in Goa forests. *Indian Forester* 100 : 691. Phenology.

PED 10 El-Baradi, T. A. 1972
Sesame. *Trop. Abstr.* 27 : 153-160.

PED 11 Hiltebrandt, V. M. 1932
Sesame (*Sesamum indicum* L.) *Bull. Appl. Bot. & Pl. Breed. Ser* IX 2 : 3-114, fig. 1-28. diagr. 1-15, tables 1-15. Monographic.

PED 12 Joshi, A. B. 1961
Sesamum. Indian Central oilseeds Committee, Hyderabad.

PED 13 Kulkarni, A. R. 1971
Notes on the distribution of *Sesamum mulayanum* Nair in Maharashtra. *Journ. Bombay Nat. Hist. Soc.* 68 : 495-496. Notes.

PED 14 Kumar, K., Bhargava, P. D. & Upadhyaya, S. M. 1967
Variability studies in sesame in Rajasthan. *Indian Journ. Agr. Sci.* 37 : 293-301.

PED 15 Nair, N. C. (1963) 1964
A new species of *Sesamum* L. from Northern India. *Bull. Bot. Surv. India* 5 : 221-253. *Sesamum mulayanum* Nair sp. nov.

PED 16 Nayar, N. M. & Mehra, K. L. 1970
Sesame : Its uses, botany, cytogenetics and origin. Econ. Bot. 24 : 20-31.

PED 17 Tribe, A. J. 1967
Sesame. *Field Crop Abstracts* 20 : 189-194.

PEPEROMIACEAE

(Refer also Piperaceae)

The family Peperomiaceae is mainly succulent herbs and consists of about 4 genera and 1000 species distributed throughout the tropics.

The Peperomiaceae is included in the family Piperaceae by

Cronquist, Dahlgren, Engler and Hutchinson, Thorne, Takhtajan and Bentham & Hooker. However Airy Shaw considered it as a separate family due to the difference in anatomy, absence of stipules and pollen. These characters are well established difference and there is parallel evolution in the families Piperaceae and Peperomiaceae.

The leaves are exstipulate and the flowers are bisexual and perianth is absent. The androecium consists of two anthers, confluent and gynoecium 1-loculed with one basal ovule. Seeds are provided with mealy perisperm.

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

GENERAL

PEP 1 Candolle, C. de 1911
Note sur la distribution geographique des especes du genre *Peperomia* R. et Pav. *Bull. Geogr. Bot.* 21 : 1-6.

PEP 2 Madison, M. 1977
An introduction to the peperomias. *Marie Selby Bot. Gard. Bull.* 3(6) : 46.

PEP 3 Murty, Y. S. 1958-59
Studies in the order Piperales. II. A contribution to the study of vascular anatomy of the flower of *Peperomia. Journ. Indian Bot. Soc.* 37 : 474-491. 1958 ; III. A contribution to the study of the floral morphology of some species of *Peperomia. Journ. Indian Bot. Soc.* 38 : 120-139. 1959.

PERIPLOCACEAE

(Refer also Asclepiadaceae)

The family Periplocaceae includes about 50 genera and 200 species, occurring in the Old World. They are mainly herbs or

shrubs scrambling in habit. The leaves are opposite and exstipulate. The flowers are bisexual and pentamerous. The androecium consists of 5 stamens, filaments free and adhered near at the throat. The anthers are coherent and introrse. They are appressed to the stylar head discharging pollen in tetrads. The gynoecium is 2-carpelled and stigmatic surfaces are hidden by the pollen-carriers.

The family is differentiated from the family Asclepiadaceae by the free stamens, granular pollen and spathulate pollen carriers. The mechanism of pollination is characteristic as the pollen is discharged on the spathulate pollen carriers ; insect vectors carry the pollen carriers. The hidden stigmatic surfaces help in ensuring cross-pollination.

The family Periplocaceae is recognised by Hutchinson and Airy Shaw to which the author agrees. However, Bentham & Hooker. Cronquist, Engler, Takhtajan and Dahlgren considered the family Periplocaceae as a part of the family Asclepiadaceae in the order Gentianales. While Hutchinson assigned the family in the order Gentianales.

In the family Asclepiadaceae, the stamens are adnate to gynoecium to evolve a gynostegium and pollen grains are agglutinised to form pollinia.

It is interesting to note that Thorne (1983) has included the families Asclepiadaceae and Periplocaceae under the family Apocynaceae as there is a gradation of characters.

GENERAL

PRP 1 Bullock, A. A. 1957
Notes on African Asclepiadaceae-8. *Kew Bull.* 1956 : 503-522, fig. 1. Key to Asclepiadaceae & Periplocaceae ; notes on *Sarcostemma, Marsdenia* & *Dregea.*

PRP 2 Santapau, H. & Irani, N. A. 1962
The Asclepiadaceae and Periplocaceae of Bombay. *Univ. Bombay Bot. Mem.* 4 : i-iv, 1-118, tab. 12. Key

to genera & spp., descr., synonymy, phenology, distr., notes.

PRP 3 Thorne, R. F. 1983
Proposed new realignments in the angiosperms. *Nord. Journ. Bot.* 3 : 85-117.

Cryptostegia R. Br.

PRP 4 Chavan, A. R. & Sabnis, S. D. 1959
Record of *Cryptostegia madagascariensis* Boj. from Baroda. *Journ. Bombay Nat. Hist. Soc.* 56 : 675. Notes.

PRP 5 Santapau, H. & Irani, N. A. (1958) 1959
Cryptostegia madagascariensis Boj.—a new record for Bombay. *Journ. Bombay Nat. Hist. Soc.* 55 : 594-595.
Key to *C. grandiflora* & *C. madagascariensis* ; descr., phenology, distr.

Janakia Joseph & Chandrasekaran

PRP 6 Joseph, J. & Chandrasekaran, V. 1978
Janakia arayalpathra : a new genus and species of Periplocaceae from Kerala, South India. *Journ. Indian Bot. Soc.* 57(4) : 308-312.

Periploca Linn.

PRP 7 Browicz, K. 1966
The genus *Periploca*-4. A monograph. *Arb. Karnickia Poland*-II : 1-104. 37 fig.

PETIVERIACEAE—Refer PHYTOLACCACEAE

PHILADELPHACEAE

(Refer also Saxifragaceae)

The family Philadelphaceae consists of 7 genera and 135 species occurring from Southern Europe to Eastern Asia. North America,

Central America and Philippine islands. They are usually shrubs and small trees with exstipulate leaves. Flowers are bisexual and calyx is 5-4 and corolla is 5-7 with stamens ranging from 4 to numerous. Gynoecium consists of 3-5-7 capsules, rarely 1-lobed. Seeds are provided with fleshy endosperm. The family is related to the segregate family Hydrangiaceae.

The family Philadelphaceae is recognised as a separate family by Airy Shaw and Hutchinson. However the family is included in the Hydrangeaceae by Cronquist and Takhtajan. While Bentham & Hooker, Engler and Thorne considered it in the family Saxifragaceae. The family is in part or as a segregate included in the Cunoniales by Hutchinson and in the order Cornales by Dahlgren (as a part of Hydrangeaceae).

The genera occurring in India are *Deutzia* and *Philadelphus.*

GENERAL

PHD 1 Gelius, L. 1967
Studien Zur Entwicklungsgeschichte an Bluten der Saxifragales sensu lato mit besonderer Berucksichtung des Androeceums *Bot. Jahrb.* 87 : 253-303.

Deutzia Thunb.

PHD 2 Anonymous, 1905
Deutzia. Flora & Sylva 3 : 192-198, 1 pl.

PHD 3 Bean, W. J. 1932
Deutzia. New Fl. & Silva 4 : 103-111, 1 pl.

PHD 4 Faulkner, R. P. 1942
Deutzias. *Gard. Chron.* III, 112 : 62-63. A review of introduced spp.

PHD 5 Zaikonnikova, T. I. 1966
Deitsi-Dekarat. Kust. Monogr. Deutzia. 97. *Deutzia wardiana* Zaikonn. sp. nov.

PHD 6 Zaikonnikova, T. I. 1973
[Generis *Deutzia* species nova et districtu Bhutan] *Novosti Sist. Vyssh. Rast.* 10 : 166-167. *Deutzia bhutanensis* sp. nov. In Russian.

Philadelphus Linn.

PHD 7 Hu, Shiu-Ying 1954-1956
A monograph of the genus *Philadelphus*. *Journ. Arn. Arb.* 35 : 275-333, pl. 1-4. fig. 1, text map 1, 1954 ; 36 : 52-109, text maps 2-4, 325-368, text maps 5-6, 1955 ; 37 : 15-90, pl. 5-6, fig. 1, text maps 7-8, 1956.

PHD 8 Janaki Ammal, E. K. 1958
Isochromosomes and the origin of triploidy in hybrids between old and new world species of *Philadelphus*. *Proc. Indian Acad. Sci.* B. 251-258.

PHD 9 Koch, K. 1860
Notice sur le genre *Philadelphus*. *Belg. Hort.* 10 : 323-331. Includes Asiatic spp.

PHD 10 Koehne, E. 1896
Philadelphus. *Gartenflora* 45 : 450-451, 486-488, 506-508, 541-542, 561-563, 596-597, 618-819, 651-652. A synopsis of the 33 recognised species.

PHD 11 Koehne, E. 1904
Zur Kenntnis der Gattung *Philadelphus*. *Mitt. Deutsch. Dendr. Ges.* 13 : 76-86. Critical notes, 44 spp. recognised.

PHD 12 Koehne, E. 1911-1912
Philadelphus. *In :* Sarg., *Pl. Wils.* 1 : 4-6, 145.

PHD 13 McFarland, J. H. 1934
Fragrant *Philadelphus*. *New Fl. & Silva* 6 : 238-241, fig. 83-86.

PHILYDRACEAE

The family Philydraceae consists of about 4 genera and 5 species occurring in Indo-malesia and Australia. They are erect rhizomatous herbs with 2-ranked sheathing leaves and flowers are bisexual and zygomorphic. The characteristic perianth consists of outer 1+2 while in the whorl 2 anterior perianth lobes are developed. The androecium consists of one anther with flattened filaments and sometimes the anther is contorted. The gynoecium consists of 3 carpels with one style and ovules are arranged in axile or parietal placentation. The fruit is a capsule and seeds are endospermous.

The family is assigned to the order Liliales by Cronquist, and Takhtajan. While Engler considered it under the Liliflorae. Thorne assigned it under the order Commelinales. Bentham & Hooker included it in the order Coronarieae. Hutchinson placed it in the order Haemodorales. Dahlgren (1983) erected a separate order Philydrales to consider this unque family. According to Dahlgren the orders of the Bromeliiflorae, Velloziales (Velloziaceae), Bromeliales (Bromeliaceae), Haemodorales (Haemodoraceae), Philydrales (Philydaceae), Pontederiales (Pontederiaceae), and Typhales (Sparganiaceae, Typhaceae) and Zingiberales with starchy endosperm retained a basically liliflorean appearance, generally (Typhales excepted) with insect-pollinated flowers and capsular (or baccate fruit often oxalate raphides in some of their tissues and helobial endosperm formation (Dahlgren, 1983).

GENERAL

PHL 1 Caruel, T. 1881
Philydraceae. *In* : DC., *Monogr. Phan.* 3 : 1-6.

PHL 2 Dahlgren, R. 1983
General aspects of angiosperm evolution and macrosystematics. *Nord. Journ. Bot.* 3 : 119-149.

PHL 3 Hamann, U. 1966
Embryologische, morphologisch-anatomische und syste-

matische Untersuchungen an Philydraceen. *Willde nowia* Beib. 4 : 1-178.

PHL 4 Skottsberg, C. 1932
Bemerkungen uber die Philydraceen. *Bot. Jahrb.* 65 : 253-274.

PHL 5 Skottsberg, C. 1933
The Philydraceae of Netherlands India. *Bull. Jard. Bot. Btzg.* III, 13 : 110-113. Revision with key.

PHL 6 Skottsberg, C. 1948
Philydraceae. *In*: van Steenis, *Fl. Males.* I, 4: 5-7, fig. 1.

PHRYMACEAE

(nom. alt. Phrymataceae)

A family of one genus (*Phryma*) and two species, the family occurs in Eastern Asia and N. America. They are herbs with opposite leaves and flowers are small. The calyx is 5-lobed and toothed and corolla is 5-lobed and bilabiate and stamens are four and didynamous. The ovary is with one locule, one ovuled. The ovule is erect and orthotropous. The family is closely allied to the family Verbenaceae and it differs in having one erect orthotropous ovule.

The family Phrymaceae is included in the order Lamiales by Cronquist and Takhtajan. While it is included in order Tubiflorae by Engler, Hutchinson placed it in the order Verbenales. However Bentham & Hooker, Dahlgren and Thorne did not give the family status and included it in the family Verbenaceae.

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

GENERAL

PHR 1 Moldenke, H. N. & Moldenke, A. L. 1946
A brief historical survey of the Verbenaceae and related families. *Plant Life* 2 : 13-98.

PHR 2 Mukherjee, J. 1973
A note on palynotaxonomy and phylogeny of Phyrmaceae. *Journ. Palynol* 9(2) : 177-182.

PHYTOLACCACEAE

(Refer also Petiveriaceae)

A family of about 12 genera and 100 species occurring in the tropics and subtropics, mainly American. They are herbs, shrubs and trees. Flowers are in racemes and cymose inflorescence. The perianth is 4-5 lobed and stamens are 4 to 5 or more. The fruit is a drupe or nut rarely capsule and seeds are provided with perisperm, often arillate.

The family is included in the Caryophyllales by Cronquist, Dahlgren and Takhtajan. It is considered in the order Chenopodiales by Hutchinson and Thorne. Bentham & Hooker assigned it in the order, Curembryae and Engler placed it in the order Centrospermae. Hutchinson segregated the following families Barberiaceae, Agdestidaceae, Petiveriaceae and Stegnospermaceae from the family Phytolaccaceae.

According to Ehrendorfer (1976) that the Caryophyllales evolved from ancestral stock closely allied to the more primitive members of the Phytolaccaceae, Aizoaceae which were apetalous, anemophilous and had anthocyanins or possibly no pigments at all.

The Asiatic species *Phytolacca acinosa* produces dark red berry and the tasteless red juice is used to colour sweetmeat. The young shoots can be used as greens. *Rivina humilis*, indigenous to S. America produces beautiful red berries. The umbrella tree of Pampas is known as *Phytolacca dioica*.

GENERAL

PHT 1 Backer, C. A. 1951
Phytolaccaceae. *In* : van Steenis, *Fl. Males*. I, 4 : 228-232, fig. 1.

PHT 2 Buxbaum, F. 1949
Vorlaufer des Kakteen-Habitus beiden Phytolaccaceen. *Osterr Bot. Zeits.* 96 : 5-14.

PHT 3 Eckardt, T. 1954
Morphologische und systematische Auswertung der Placentation von Phytolaccaceen. *Ber. Deuts. Bot. Ges.* 67 : 113-128.

PHT 4 Ehrendorfer, F. 1976
Closing remarks : systematics and evolution of centrospermous families. *Plant Syst. Evol.* 126 : 99-105.

PHT 5 Heimerl, A. 1934
Phytolaccaceae. *In* : Engler & Prantl, *Pflanzenf.* ed. 2. Bd. 16C : 135-164.

PHT 6 Khan, M. S. & Huq, A. M. 1975
Casuarinaceae, Phytolaccaceae, Hydrophyllaceae, Martyniaceae and Caricaceae. *Flora of Bangladesh* 1 : 1-13.

PHT 7 Norwicke, J. W. 1968
Palynotaxonomic study of the Phytolaccaceae. *Ann. Missouri Bot. Gard.* 55 : 294-363.

PHT 8 Walter, H. 1909
Phytolaccaceae. *In* : Engler, *Pflanzenr.* 39(IV. 83) : 1-154. fig. 1-42.

Rivina Linn.

PHT 9 Joshi, A. C. 1936
A contribution to the embryology and cytology of *Rivina humilis* Linn. *Journ. Ind. Bot. Soc.* 15 : 91-104.

PIPERACEAE

(Refer also Peperomiaceae)

The family Piperaceae consists of 4 genera and about 2000 species distributed in the tropics. They are mainly climbers or shrubs with enlarged nodes. The leaves are alternate, stipulate and they have pungent taste. The flowers are in dense spikes, bisexual or unisexual with no perianth lobes. The stamens are 1-10 and gynoecium 1-4 carpelled and loculed with one basal ovule. The fruit is a berry and seeds with perisperm.

The family Piperaceae is included in the order Piperales by Cronquist, Dahlgren, Engler and Hutchinson and Takhtajan. However Thorne considered it in the order Annonales ; whereas Bentham & Hooker included it in the order Micrembryae. Airy Shaw separated Peperomiaceae as a separate family to which opinion the author agrees.

The pepper of commerce is derived from *Piper nigrum* (Black Pepper). The crinkly fleshy layer when on drying becomes black. If the fleshy layer is removed, the result is white pepper. Pepper is an important article of trade during middle ages from Malabar Coast. Long pepper is derived from *Piper longum*. Cubeb pepper is derived from *Piper cubebe* growing in Indonesia. Ashantee, (West African pepper) is used as pepper substitute. The fresh leaves of *Piper betle* is chewed in south Asian countries. The intoxicating Kava-Kava of Polynesians is obtained by brewing roots of *Piper methysticum* in the coconut milk.

According to Dahlgren (1983) the order Piperales (Saururaceae and Piperaceae) and Nymphaeales (Cabombaceae, Ceratophyllaceae and Nymphaeaceae) have arisen from the basically trimerous pro-Magnoliiflorae. It is seen that probably the flowers in Piperales became reduced while the flowers in the Nymphaeaceae increased in size and in floral parts. In the Magnoliidae which is characteristic of benzylisoquinoline alkaloids, the exceptions are most of the species of the family Piperaceae.

GENERAL

PIP 1 Burger, W. C. (1977) 1978
The Piperales and the monocots : alternate hypotheses for the origin of monocotyledonous flowers. *Bot. Rev.* 43(3) : 345-393.

PIP 2 Candolle, C. de 1869
Piperaceae. *In* : DC., *Prodr.* 16(1) : 235-471.

PIP 3 Candolle, C. de 1923
Piperacearum clavis analytica. *Candollea* 1 : 65-415.

PIP 4 Candolle, C. de 1925
Piperaceae novae promaxime parte in Piperacearum clavi analytica jam discriminatae nunc accuratius descriptae, additis non nullis anterioribus fuisius descriptis. *Candollea* 2 : 187-226.

PIP 5 Chee Wee-Lek 1972
Studies in West Malesian Piperaceae I. *Blumea* 20 : 145-149. 1 fig.

PIP 6 Miquel, F. A. W. 1843-1844
Systema Piperacearum Fasc. 1 : 1-304. 1843 ; Fasc. 2 : 305-575. 1844. Key to genera.

PIP 7 Miquel, F. A. W. 1846
Illustrationes Piperacearum. *Nov. Act. Acad. Leop.-Carol. Nat. Cur.* 21 : Suppl. 1-87, t. 1-92.

PIP 8 Murty, Y. S. 1961
Studies in the order Piperales-III. *Journ. Ind. Bot. Soc.* 38 : 120-139.

PIP 9 Semple, K. S. 1974
Pollination in Piperaceae. *Ann. Missouri Bot. Gard.* 61 (3) : 868-871.

PIP 10 Trelease, W. 1930
The geography of the American peppers. *Proc. Amer. Philos. Soc.* 69 : 309-327.

PIP 11 Yuncker, T. G. 1964
Nomenclatural notes on Piperaceae. *Brittonia* 14 : 188-190.

PIP 12 Yuncker, T. G. 1964
A bibliography of the family Piperaceae. *Candollea* 19 : 97-144.

Piper Linn.

PIP 13 Hasan-Iljas, B. 1960
Some notes on the flower biology in black pepper (*Piper nigrum* L.). *Contr. Gen. Agric. Res. Stat. Bogor* No. 157 : 1-22.

PIP 14 Mathew, P. M. 1975
Karyomorphological studies on *Piper nigrum. In : Proc. 1st National Symp. Pl. Crops.* Dec. 8-9. 1972. Trivandrum. 15-18.

PIP 15 Tseng, Y. -C. 1979
Materials for Chinese Piper. *Acta. Phytotax. Sin.* 77(1) : 24-41, fig. 1. Notes on about 30 spp. of *Piper.*

PISTACIACEAE—refer ANACARDIACEAE

PITTOSPORACEAE

A family of 9 genera and about 350 species mainly trees, shrubs and sometimes climbers occur in the tropical and subtropical regions of the world. The genus *Pittosporum* occurs in Asia, Australia and Africa. The eight genera are endemic to Australia. The leaves are simple and exstipulate. Flowers are bisexual, and 5-merous. Stamens 5 alternating with the petals. Ovary is unilocular, placentas 2-5,

parietal or basal. Fruits are capsular or berries usually containing viscous pulp.

The family is treated under Pittosporales by Bentham & Hooker, under Rosales by Engler and Cronquist. Hutchinson and Dahlgren placed it under the order Pittosporales. Takhtajan however considered it under the order Saxifragales.

Dahlgren (1981) considered that the Pittosporales are closely allied to the Araliales. The Apiaceae, Araliaceae and Pittosporaceae are linked by the production of similar polyacetylenes. Polyacetylenes are a large group of non-nitrogenous secondary metabolites linking several groups of families. The isolation of essential oils, ursene-type saponins, polyacetylenes and caffeic acid esters from this family indicates close chemical ties with Araliales (Apiaceae and Araliaceae) Hegnauer, (1971). Several species are cultivated in gardens : *Pittosporum rhombifolium*, *P. viridiflora*, *P. tobira*, *Hymenosporum flavum* and *Bursaria spinosa*.

GENERAL

PIT 1 Bakker, K. & Steenis, C. G. G. J. van 1957
Pittosporaceae. *In* : van Steenis, *Fl. Males.* I, 5: 345-362, fig. 1-9.

PIT 2 Candolle, A. P. de 1824
Pittosporeae. *In* : DC., *Prodr.* 1 : 345-348.

PIT 3 Gowda, M. 1951
The genus *Pittosporum* in the Sino-Indian region. *Journ. Arn. Arb.* 32 : 263-343, fig. 1-4. A systematic revision.

PIT 4 Jay, M. 1969
Chemotaxonomic researches on vascular plants XIX. Flavonoid distribution in the Pittosporaceae. *Journ. Linn. Soc. (Bot.)* 62 : 423-429.

PIT 5 Nayar, M. P. & Giri, G. S. 1980
Pittosporaceae. *Fasc. Fl. Ind.* 6 : 1-15, 2 fig. Key to 11

spp. ; 2 new species : *Pittosporum anamallayense* Nayar et Giri & *Pittosporum viridulum* Nayar et Giri.

PIT 6 Putterlick, A. 1839
Synopsis Pittosporearum. In : Nees, *Gen. Pl. Fasc.* 1-30.

PIT 7 Rehder, A. & Wilson, E. H. 1916
Pittosporaceae. *In* : Sarg. *Pl. Wils.* 3 : 326-330.

PIT 8 Steenis, C. G. G. J. van 1972
Pittosporaceae, Add. & Corr. *Fl. Males.* I, 6 : 960-963, fig. 11. Critical notes.

PIT 9 Schodde, R. 1972
A review of the family Pittosporaceae in Papuasia. *Austr. Journ. Bot.* 3. Suppl. 3-60, 16 fig., 11 tab. Key, revision, suggests Gondwanaland origin of the family.

PIT 10 Van Tieghem, P. 1884
Sur la structure et les affinites des Pittosporees. *Bull. Soc. Bot. Fr.* 31 : 383-385.

PIT 11 Tirvengadum, D. D. 1981
Pittosporaceae. *Rev. Handb. Fl. Ceylon,* New Delhi 473-477.

Pittosporum Banks ex Soland

PIT 12 Cooper, R. C. 1956
The Australian and New Zealand species of *Pittosporum. Ann. Missouri Bot. Gard.* 43 : 87-188.

PIT 13 Cufodontis, G. 1952
Revision der afrikanischen Arten von *Pittosporum. Feddes Repert* 55 : 27-113.

PIT 14 Kumazawa, M. 1970
On the pleiocotyly in the genus *Pittosporum* : a preliminary note. *Bot. Mag. Tokyo* 83 : 119-124.

GENERAL—ADDITIONS

PIT 15 Hegnauer, R. 1971
Chemical patterns and relationships of the Umbelliferae—*In* : Heywood, V. H. (*ed.*), *The biology and chemistry of the Umbelliferae, Academic, London*, 267-277.

PLANTAGINACEAE

The family Plantaginaceae consists of about 3 genera and 270 species. They are annual or perennial herbs with flowers in heads or spikes, bisexual and 4-merous. The ovary is 2-locular with one to many ovules on axile placentation.

The family Plantaginaceae is included in the order Plantaginales by Cronquist, Engler and Hutchinson. However it is included in the order Scrophulariales by Dahlgren and Takhtajan. Bentham & Hooker considered it under "anomalous family".

According to Airy Shaw the 4-merous flowers of Plantaginaceae is derived from a 5-merous type in the same way as of *Veronica*. There is close alliance of this family with the family Scrophulariaceae.

The seeds of *Plantago psyllium* swell up when wetted and become mucilaginous. Hence it is used as a mild laxative. They are also used in silk and cotton manufacture.

GENERAL

PTG 1 Barneoud, F. M. 1845
Monographie generalale de la Famille des Plantaginacees 1-52. Paris.

PTG 2 Dietrich, H. 1969
Uber die Aussagekraft pollen morphologischer Fakten bei stenopalynen Verwandtschafts-bereichen am Beispiel der Plantaginaceae. *Feddes Repert* 79(6) : 347-353.

PTG 3 Kazmi, S. M. A. 1974
Plantaginaceae. *Fl. W. Pakistan* No. 62 : 1-21, fig. 3.

PTG 4 Pilger, R. 1937
Plantaginaceae. *In* : Engler, *Pflanzenr.* 102(IV. 269) : 1-466, fig. 1-45. Monographic.

Plantago Linn.

PTG 5 Chandra, V. 1968
Pollen dimorphism in *Plantago* spp. *Palynological Bull. Lucknow* IV(2) : 92-93.

PTG 6 Favarger, C. & Vasudevan, K. N. 1972
Etude cytologique et morphologique des populations de *Plantago major* L. et de *Plantago lanceolata* L. de l' Himalaya occidental : Comparison avec des plantes de Suisse. *Bull. Soc. Neuchatel Sci. Nat.* 95 : 63-74. Chrom. nos.

PTG 7 Hammer, K. 1978
Entwicklungstendenzen blutenokologischer Merkmale bei *Plantago* (Evolutionary trends concerning pollination ecology in *Plantago*). *Flora (Germany)* 167(1) : 41-55.

PTG 8 Jain, K. K. 1978
Cytology of the polymorphic *Plantago lanceolata* L. *Caryologia* 32(2) : 179-182.

PTG 9 Jain, K. K. 1978
Cytology of the polymorphic *Plantago major* Linn. *Cytologia (Japan)* : 43(2) : 345-349.

PTG 10 Panigrahi, G. 1975
A note on *Plantago exigua* (Plantaginaceae) and certain related taxa. *Kew Bull.* 30(4) : 669-673. The typification and nomenclature of *Plantago pumila* L. f. and *P. exigua* Juss. ex Murray and *P. indica* are discussed.

PTG 11 Pilger, R. 1922
Die Arten der *Plantago major* —Gruppe in Ostasien. *Notizbl. Bot. Gart. Berlin* 8 : 104-116. —a key to 10 spp. and descr. of three new spp.

PTG 12 Pilger, R. 1924
Beitrage Zur Kenntnis der Gattung *Plantago. Repert Sp. Nov. Fedde* 20 : 12-16.

PTG 13 Pilger, R. 1928
Beitrage Zur Kenntnis der Gattung *Plantago* VIII. Weitere Bemerkungen uber die altweltlichen Arten der Sektion *Leucopsyllium* Decne. *Repert Sp. Nov. Fedde* 24 : 317-322.

PTG 14 Primack, R. B. 1978
Evolutionary aspects of wind pollination in the genus *Plantago* (Plantaginaceae). *New Phytologist* 81(2) : 449-458.

PTG 15 Rahn, K. 1978
Nomenclatural changes within the genus *Plantago* L., infraspecific taxa and subdivisions of the genus. *Bot. Tidsskr.* 73(2) : 106-111. Key.

PTG 16 Sopova, M. & Rizova, M. 1975
Chromosome number and karyotype study in nine species of *Plantago. God. Zborn. Biol.* 27-28, 237-251.

PTG 17 Stebbins, G. L. & Day, A. 1967
Cytogenetic evidence for long continued stability in the genus *Plantago. Evolution* 21 : 409-428.

PLATANACEAE

The family Platanaceae is a monogeneric family (*Platanus*) with about 10 species occurring in North temperate regions. They are large deciduous trees characterised by patchy bark scaling in large

flakes leaving smooth surface. They are commonly known as plane trees and cultivated as avenue trees. The leaves are simple palmatifid and the stipules are large. The plane trees are monoecious. The male and female flowers are in dense spherical heads. The male flowers consists of 3-4 subsessile anthers and the female flowers are 6-9 carpellate.

The family Platanaceae is included in the order Hamamelidales by Cronquist, Dahlgren, Takhtajan, Hutchinson and Thorne. It is considered in the order Rosales by Engler. However Bentham and Hooker included it in the order Unisexuales.

Endress (1977) considers the order Hamamelidales is linked to the orders Fagales and Betulales through the families Platanaceae and Myrothamnaceae. According to Airy Shaw the family Platanaceae is distantly related to the family Altingiaceae.

The common species are the Eastern Plane tree (*Platanus orientalis*); The American plane tree (*P. occidentalis*). The London plane tree (*P. acerifolia*) is considered as a hybrid of Western Plane tree (*P. occidentalis*) and the Eastern Plane tree (*P. orientalis*).

GENERAL

PLT 1 Boothroyd, L. E. 1930
The morphology and anatomy of the inflorescence and flower of the Platanaceae. *Am. Journ. Bot.* 17 : 678-693. pls. 40, 41.

PLT 2 Bretzler, E. 1899
Studien uber die Gattung *Platanus* L. *Verh. Leop.-Carol. Akad. Naturf.* 77 : 115-226.

PLT 3 Brouwer, J. 1924
Studies in Platanaceae. *Rec. Trav. Bot. Neerlandais* 21 : 369-382.

PLT 4 Candolle, A. de 1864
Platanaceae. *In* : DC., *Prodr.* 16(2) : 156-160.

PLT 5 Ernst, Wallace, R. 1963
The genera of Hamamelidaceae and Platanaceae in the south eastern United States. *Journ. Arn. Arb.* 44 : 193-210.

PLT 6 Griggs, R. F. 1909
Characters and relationships of the Platanaceae. *Bull. Torrey Bot. Club* 36 : 389-395.

Platanus Linn.

PLT 7 Berry, E. W. 1914
Notes on the geologic history of *Platanus*. *Pl. World* 17 : 1-8.

PLT 8 Berry, E. W. 1932
Fossil stipules of *Platanus*. *Journ. Wash. Acad. Sci.* 22 : 413-416.

PLT 9 Bretzler, E. 1924
Beitrage Zur Kenntnis der Gattung *Platanus*. *Bot. Archv. Mez.* 7 : 388-417, fig. 1-43. Largely morphological considered the proposed species as morphological forms of a single species.

PLT 10 Li, H. L. 1957
The origin and history of the cultivated plane trees. *Morris Arb. Bull.* 8 : 3-9, 26-31.

PLT 11 Tutaiuk, V. Kh. 1959
Century-old plane tree, *Platanus orientalis* L. *Dokl. Akad. Nauk. Azerb. SSR* 15 : 1165-1169. In Russian.

PLT 12 Tutaiuk, V. Kh. 1960
A curious ecological adaptive device in *Platanus orientalis* L. *Dokl. Akad. Nauk. Azerb. SSR* 16 : 499-502. In Azerbaizani.

PLT 13 Ward, L. F. 1888
The paleontologic history of the genus *Platanus*. *Proc. U. S. Natl. Mus.* 11 : 39-42, pls. 17-22.

GENERAL—ADDITIONS

PLT 14 Endress, P. 1977
Evolutionary trends in the Hamamelidales—Fagales group. *Plant Syst. Evol. Suppl.* 1 : 321-347.

PLUMBAGINACEAE

(includes Limoniaceae)

The family Plumbaginaceae consists of about 10 genera and 500 species with cosmopolitan distribution occurring especially in semiarid salty grasslands and sea coast. They are herbs and shrubs with alternate exstipulate leaves. The flowers are bisexual, 5-merous. The 5 stamens are epipetalous and oppositipetalous. The ovary 5-carpellate and 1-loculed with one anatrophous ovule on basal placenta.

The family Plumbaginaceae is included in the order Plumbaginales by Cronquist, Dahlgren, Engler, Takhtajan and Thorne. It is included in the order Primulales by Bentham & Hooker and Hutchinson.

There are similarities as regards flavonoids among the order Caryophyllales, Polygonales and also Plumbaginales (Young, 1981). There is great difference in pollen morphology (Norwicke & Skvarla, 1977), differences in secretory glands, floral construction between Plumbaginaceae sub. fam. Plumbaginoideae and Limoniaceae (Plumbaginaceae sub. fam. Limonioideae). But further evaluation is required to give Limoniaceae its justified family status.

GENERAL

PLB 1 Baker, H. G. 1948
Dimorphism and monomorphism in the Plumbaginaceae. 1. A survey of the family. *Ann. Bot. (London)* 12 : 207-219.

PLB 2 Baker, H. G. 1948
Relationships in the Plumbaginaceae. *Nature* 161 : 400.

PLB 3 Baker, H. G. 1952
Cytotaxonomic studies in the Plumbaginaceae (Abs.). *Heredity* 6 : 279-280.

PLB 4 Baker, H. G. 1966
The evolution, functioning and breakdown of heteromorphic incompatibility systems. 1. The Plumbaginaceae. *Evolution* 20 : 349-368.

PLB 5 Boissier, E. 1848
Plumbaginaceae. *In* : DC., *Prodr.* 12 : 617-696. Monographic.

PLB 6 Bokhari, M. H. 1972
A brief review of stigma and pollen types in *Acantholimon* and *Limonium*. *Notes Roy. Bot. Gard. Edinb.* 32(1) : 79-84.

PLB 7 Channel, R. B. & Wood, C. E. Jr. 1959
The genera of Plumbaginaceae of the south eastern United States. *Journ. Arn. Arb.* 40 : 391-397. The Plumbaginaceae are distinguished from other sympetalous groups by a combination of obdiplostemony, four styles or style branches and unilocular ovary with a solitary basal ovule.

PLB 8 Dahlgren, K. V. O. 1916
Cytologische und embryologische Studien uber die Reihen Primulales und Plumbaginales. *Kungl. Sevenska Veten. Handl.* 56(4) : 1-80. Cytology and embryology.

PLB 9 Friedrich, H. C. 1956
Studien uber naturliche Verwandtschaft der Plumbaginales und Centrospermae. *Phyton* 6 : 220-263.

PLB 10 Labbe, A. 1962
Les Plumbaginacees, structure, development, repartition, consequences en systematique. *Trav. Lab. Biol. Veg. Grenoble Lautaret* 1962 : 9-113.

PLB 11 Maury, P. 1886
Etudes sur l' organisation et la distribution geographique des Plumbaginacees. *Ann. Sci. Nat.* VII. Bot. 4 : 1-134, pl. 1-6.

PLB 12 Pax, F. 1889
Plumbaginaceae. *In* : Engler & Prantl, *Pflanzenf.* IV. 1 : 116-125.

PLB 13 Phillips, H. M. 1938
Karyology and the phyletic relationships of the Plumbaginaceae. *Chron. Bot.* 4 : 385-386.

PLB 14 Steenis, C. G. G. J. van 1949
Plumbaginaceae. *In* : van Steenis, *Fl. Males.* I, 4 : 107-112, fig. 2.

PLB 15 Sugiura, T. 1939
Chromosome numbers in Plumbaginaceae. *Cytologia* 10 : 73-76.

PLB 16 Van der Vijver, L. M. 1972
Distribution of plumbagin in the Plumbaginaceae. *Phytochemistry* 11(11) : 3247-3248.

Acantholimon Boiss.

PLB 17 Bokhari, M. H. 1972
Anatomical characters and their taxonomic importance in *Acantholimon. Notes Roy. Bot. Gard. Edinburgh* 32(1) : 85-92.

PLB 18 Bunge, A. 1872
Die Gattung *Acantholimon* Boiss. *Mem. Acad. Sci. St. Petersb.* 18(2) : 1-72. 2 pl. Monographic.

Armeria Willd.

PLB 19 Baker, H. G. 1948
The significance of pollen dimorphism in late glacial *Armeria*. *Nature* (*London*) 161 : 770-771.

PLB 20 Lawrence, G. H. M. 1940
Armeria, native and cultivated. *Gentes Herb.* 4 : 391-418.

PLB 21 Wallroth K. F. W. 1842
Monographischer Versuch uber die Gewachs—Gattung *Armeria* Willd. *Beitr. Bot.* (*Leipzig*) 168-218.

Ceratostigma Bunge

PLB 22 Lawrence, G. H. M. 1954
Studies in the genus *Ceratostigma*. *Gentes Herb.* 8 : 410-420, fig. 127-128. A systematic study.

PLB 23 Prain, D. 1906
The genus *Ceratostigma*. *Journ. Bot. Brit. & For.* 44 : 4-8. A revision, including a key & descr.

Dyerophytum O. Ktze.

PLB 24 Erdtman, G. 1970
Uber pollen dimorphic in Plumbaginaceae—Plumbaginae. Unter besonderer Berucksichtigung von *Dyerophytum indicum* Sevensk. *Bot. Tidsskr.* 64 : 184-188.

Limonium Mill.

PLB 25 Baker, H. G. 1953
Dimorphism and Monomorphism in the Plumbaginaceae-II. Pollen and stigmata in the genus *Limonium*. *Ann. Bot. N. S.* 17 : 433-445 ; III. Correlation of geographical distribution patterns with dimorphism and monomorphism in *Limonium*. *Ibid.* 17 ; 615-625.

PLB 26 Salmon, C. E. 1903-1923
Notes on *Limonium*. *Journ. Bot.* 41 : 65-74. 1903 ; *ibid.* 42 : 361-364. 1904 ; *ibid.* 43 : 5-14, 54-59. 1905 ; *ibid.* 45 : 24-26, 428-432. 1907 ; *ibid.* 46 : 1-3. 1908 ; *ibid.* 47 : 285-288. 1909 ; *ibid.* 49 : 73-77. 1911 ; *ibid.* 51 : 92-95. 1913 ; *ibid.* 53 : 237-243, 325-329. 1915 ; *ibid.* 55 : 33-34. 1917 ; *ibid.* 60 : 345-346. 1922 ; *ibid.* 61 : 97-99. 1923.

PLB 27 Sprague, T. A. 1924
Statice and *Limonium*. *Journ. Bot.* 62 : 267, 268.

Plumbago Linn.

PLB 28 Dahlgren, K. V. O. 1918
Heterostylie innerhalb der Gattung *Plumbago* [*P. capensis*, *P. europea* and *P. indica*]. *Sv. Bot. Tidsskr.* 12 : 362-372.

PLB 29 Surova, T. G. 1967
Tectomorphologie des Plumbaginaceae L. 1. Pollen du type *Plumbago* (en russe). *Navehn. Dokl. Vyssh. Shk. Biol. Nauki.* U. S. S. R. 10(9) : 67-75.

Plumbagella Spach

(Reduced to **Plumbago**)

PLB 30 Smith, W. W. 1914
An Himalayan variety of *Plumbagella micrantha*. *Trans. Bot. Soc.* (*Edinburgh*) 26 : 277-279. var. *himalaica* var. nov. from the eastern Himalayas.

Statice Linn.

(reduced to **Limonium**)

PLB 31 Wangerin, W. 1921
Generis *Statice* species et varietates novae I. *Repert Sp. Nov. Fedde* 17 : 398-402. Includes *S. dielsiana* sp. nov. from Tibet.

GENERAL—ADDITIONS

PLB 32 Norwicke, J. W. & Skvarla, J. J. 1977
Pollen morphology and the relationship of the Plumbaginaceae, Polygonaceae and Primulaceae to the order Centrospermae. *Smithsonian Contrib. Bot.* 37.

PLB 33 Young, D. A. 1981
The usefulness of flavonoids in angiosperm phylogeny : some selected examples. *In* : Young, D. A. & Seigler, D. S. *eds. Phytochemistry and Angiosperm Phylogency,* Praeger, New York, pp. 205-232.

POACEAE

(*nom. altern.* Gramineae)

The family Poaceae is typified by the genus *Poa* and consists of about 650 genera and 10,000 species. More than any group of plants, the family commonly known as grasses and bamboos contribute to mankind by way of giving mankind staple food (cereals), fodder for cattle, thatching and building material for making houses for use in medicine and horticulture. The present civilization stands squarely on the family Gramineae. Grasses (Gramineae) are allied to sedges (Cyperaceae) in having cylindrical stems, which are usually hollow except at the solid nodes. The greatest advantage for the grasses is that the elongation takes place at the nodes. Besides this it is distinguished from the family Cyperaceae in having distichous leaves and in the structure of the spikelets. The inflorescence is composed of units called spikelets which are either aggregated in panicles, racemes or in slender spikes. The spikelets consist of a series of modified leaves, borne in two opposite rows, one above the other on a very short axis called rachilla. The two scales at the base are called the lower and upper glumes and there are numerous variations for different genera. Above these glumes, and sessile in the rachilla are small one or many pairs of scales, the outer scale is called lemma and

the inner scale is called palea. Hence, the floret consists of these two pair of scales (lemma and palea). The stamen and pistils complete the floral structure. There are also 2 or 3 minute fleshy or hyaline scales called lodicules. According to one view the lodicules represent much reduced petals, whereas according to another theory they represent divided bract. The flower consists of 1 ovary and 3 stamens or sometimes 6 stamens as in *Oryza* species.

Grasses are dominant species in almost all climatic zones from the Arctic to the equatorial forests and especially thrives well in open steppes or prairies known as grasslands. At the highest latitudes and altitudes they are the only flowering plants adapting to the special ecological conditions.

The family Poaceae is the fourth largest family of flowering plants after the families Orchidaceae, Compositae and Leguminosae. The classification of the grasses into different group is constantly under revision due to the knowledge on the hereditory mechanism, chromosome number, the anatomy of leaves, the structure of stomata, the structure of embryo, nature of the lodicules, form of starch grains. About 60 tribes are distinguished and 2-12 sub-families are also considered.

The family Poaceae is included in the order Cyperales by Cronquist, in the order Poales by Takhtajan, in the order Commelinales by Thorne, in the order Graminales by Engler and Hutchinson. Bentham & Hooker included it in the order Glumaceae. However, Airy Shaw raised some tribes as families : Anomochloaceae, Bambusaceae, Streptochaetaceae. Dhalgren (1983) did not support treating Poaceae and Cyperaceae in one order as in Cronquist's classification. Dahlgren (1983) considered it under Poales. The bamboos are well-known economically and Indomalaysia has the tallest bamboos (*Dendrocalamus giganteus*) which reach a height of 40 m. Some bamboos develop edible fruits (*Melocanna*). Some species produce armoured thick fruits. The genus *Bambusa* with more than 70 species supply building and handicraft material for the people of south-east Asia. Young shoots of bamboos are harvested as vegetable for making oriental dishes.

Barley (*Hordeum*) is considered as man's oldest cereal crop plants as it is known to have been cultivated by Egyptians in 5000 BC, and the Mesopotamians in 3500 BC. Wheat (*Triticum*) has the largest cultivated plant area. The cultivated oats (*Avena sativa*) seems to have been domesticated in southern Russia, N. W. Asia around 2500 BC. Rice (*Oryza sativa*) has become the primary food of the eastern Asia around 2400 BC, it is the staple food for more than half the mankind. Wild rice (*Zizania aquatica*), an aquatic species provides food for water fouls. Millets commonly known as the poor man's food "form the staple food of people living in the semi-arid region. Sugarcane (*Saccharum officinarum*) is a perennial and this species is an important source of sugar which Theophratus described as the "sweet salt" derived from reed-like plant. Several essential oils like lemon grass oil (*Cymbopogon citratus*), ginger grass oil (*C. martinii*), Citronella oil (*C. nardus*) are used in perfumery. *Sorghum* mainly originated from Africa is a draught resistant cereal. Maize or Indian Corn (*Zea mays*) is the man's important contribution of cereal from America. Job's tears (*Coix lachryma-jobii*) is used in tribal belt in eastern Asia as an alternate famine food. The Khuskhus plant (*Vetiveria zizanioides*) from India yields aromatic oil "oil of vetiver". The buffalo grass (*Buchloe dactyloides*) is an important forage grass.

On the basis of anatomical and morphological evidences Macfarlane and Watson (1980) redifined the family Pooideae. Hibru and Wright (1982) proposed that the family contains seven natural clusters of genera of sub-familial rank, Arundinoideae, Bambusoideae, Centostecoideae, Eragrostoideae, Oryzoideae, Panicoideae and Pooideae. Soderstrom (1981) after reviewing Bambusoideae considers the specialised woody habit and the primitive herbaceous genera agrees with the view of Hibru & Wright (1982).

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Zenkeria jainii—a new species of Poaceae from Kerala. *Journ. Bombay Nat. Hist. Soc.* 78 : 352-353. Allied to *Z. sebastinei* from Iduki, Kerala.

Zizania Linn.

POA 1285 Camus, A. 1950
Les especes utiles du genre *Zizania* (Graminees). *Rev. Bot. Appl.* 30 : 50-60, 1 fig.

POA 1286 Fassett, N. C. 1924
A study of the genus *Zizania. Rhodora* 26 : 153-160. *Z. latifolia* Turcz. retained for the asiatic spp.

POA 1287 Prodoehl, A. 1922
Oryzeae monographice describuntur. *Bot. Archiv. Mez.* 1 : 211-224, 231-256. Includes known spp. of *Leersia, Oryza* and *Zizania.*

POA 1288 Schlechtendal, D. F. L. von 1860
Geschichte der Gattung *Zizania. Linnaea* 30 : 714-729.

POA 1289 Stapf, O. 1909
The Manchurian water-rice (*Zizania latifolia* Turcz.) *Kew Bull. Misc. Inf.* 1909: 385-390.

Zoysia Willd.

POA 1290 Fujimoto, Y. 1965
Classification of *Cynodon* and *Zoysia* by vegetative characters. *Hikobia* 4 : 209-221, fig. 7.

POA 1291 Goudswaard, P. C. 1980
The genus *Zoysia* (Gramineae) in Malesia. *Blumea* 26 : 169-175, map 1.

POA 1292 Muller, C. 1855
Recensio generis Graminearum *Zoysia*. *Bot. Zeit.* 13 : 265-273.

GENERAL ADDITIONS

POA 1293 Halen K. W. & Wright, K. I. 1982
Systematics of Gramineae : a cluster analysis study. *Taxon* 31 : 9-36.

POA 1294 Macfarlane, T. D. & Watson, L. 1980
The circumscription of Poaceae subfamily Pooideae, with notes on some controversial genera. *Taxon* 29 : 645-666.

PODOPHYLLACEAE

(Refer also Berberidaceae)

The family Podophyllaceae consists of about 6 genera and 20 species occurring in N. temperate regions. They are mainly herbs with fleshy roots and rhizomes with exstipulate radical leaves which are partite or palmately lobed. The flowers are in cymose or umbellate, rarely solitary. The calyx 4-15 lobed and there are 6-9 petals and anthers are 4-18, dehiscing by valves. The ovary 1-loculed with one to many ovules.

The family Podophyllaceae is recognised by Airy Shaw, Hutchinson and Takhtajan. However, Cronquist, Dahlgren, Thorne,

Engler and Bentham & Hooker did not recognise this as a separate family. Cronquist included the Podophyllaceae in the family Ranunculaceae. However, Dahlgren, Engler, Bentham & Hooker and Thorne included it in the family Berberidaceae. Hutchinson included the family Podophyllaceae in the order Ranales while Takhtajan included it in the order Ranunculales.

It is generally considered that the family Podophyllaceae is intermediate between the families Berberidaceae and Ranunculaceae.

GENERAL

PDP 1 Jafri, S. M. H. 1974
Podophyllaceae. *Fl. W. Pakistan* No. 57 : 1-4, map 1, fig. 1.

PDP 2 Tischler, G. 1902
Die Berberidaceen und Podophyllaceen Versuch einer morphologischbiologischen Monographie. *Bot. Jahrb.* 1 : 596-727, fig. 1-30. Key to genera.

Podophyllum Linn.

PDP 3 Bastin, E. S. 1894
Structure of *Podophyllum*. *Am. Journ. Pharm.* 66 : 417-424.

PDP 4 Chatterjee, R. 1952
Indian *Podophyllum*. *Econ. Bot.* 6 : 342-354, fig. 1-12. Includes a review of Indian species.

PDP 5 Halsted, B. D. 1894
Pistillodia of *Podophyllum* stamen. *Bull. Torrey Bot. Club* 21 : 269.

PDP 6 Prain, D. 1920
Podophyllum emodi var. *chinense*. *Bot. Mag.* 146 : pl. 8850.

PDP 7 Selivanova-Gorodkova, H. 1975
[Sectio nova generis *Podophyllum* L. (Podophyllaceae

DC.)] *Novosti Sist. Vyssh. Rast.* 12 : 209-210. Sect. *Hexandra* sect. nov. based on *Podophyllum hexandrum.*

PDP 8 Soejarto, D. D., Faden, R. B. & Farnsworth, N. R. 1979 Indian *Podophyllum* : *Is it Podophyllum emodi or Podophyllum hexandrum* ? *Taxon* 28 (5/6) : 549-551.

PDP 9 Sullivan, B. J. & Wechsler, H. J. 1947 The cytological effects of Podophyllin. *Science* 105 : 433. Perhaps a useful cytological tool.

PDP 10 Wallis, T. E. & Goldberg, S. 1937 The histology of Indian *Podophyllum. Quart. Journ. Pharm.* 10 : 311-318.

PODOSTEMACEAE

(Refer also Tristichaceae)

The family Podostemaceae consists of 45 genera and about 130 species. The family is included in the order Podostemales by Cronquist, Dahlgren, Engler, Hutchinson and Takhtajan. However, it is included in the order Rosales by Thorne, while Bentham & Hooker included the family Podostemaceae in the order Multiovulatae aquaticae. Airy Shaw, Subramanyam & Sreemadhavan (1971) considered the family Tristichaceae is distinct from the Podostemaceae. The author agrees with this opinion.

Most of the species resemble algae or bryophytes in habit and they grow attached to rocks in rapidly flowing hill streams. The shortlived primary axis produce thalloid or ribbon like structures which are equivalent to adventitious roots. From this thallus there are secondary shoots which remain vegetative and later on becomes flower bearing when water level subsides. Stamens are one to many in one or two whorls free or united. The ovary is 2-1 locular with free central placentation.

Willis (1915, 1926) considered that the family Podostemaceae and Trichistaceae are ancestors of dicotyledons growing on swift

flowing rivers with rocky terrain. Subramanyam & Sreemadhavan (1971) differentiate the family Tristichaceae in having simple branches, simple exstipulate leaves and simple or slightly thalloid secondary shoots, absence of spathe, presence of perianth, absence of staminodes. Whereas in the family Podostemaceae the branches are in the axil of a lower stipule, complex compound stipulate leaves (however rarely exstipulate and simple) complex with leaves on the margin of secondary branches, presence of spathe and absence of perianth and presence of staminodes.

van Royen considers that Podostemaceae and Crassulaceae form the final stages of diverging lines from the Saxifragaceae complex.

GENERAL

PDS 1 Cusset, C. 1973
Podostemaceae. *Fl. Camb., Laos & Vietn.* 14 : 65-74.

PDS 2 Engler, A. 1930
Podostemonaceae. *In* : Engler & Prantl, *Pflanzenf. ed.* 2. Bd. 18a : 3-68.

PDS 3 Gardner, G. 1846
Observations on the structure and affinities of the plants belonging to the natural order Podostemaceae together with a monograph of the Indian species. *Calcutta Journ. Nat. Hist.* 7 : 165-189.

PDS 4 Magnus, W. 1913
Embryology of the Podostemonaceae. *Flora* n.s. 5 : 275-336.

PDS 5 Nair, P. K. K. 1965
Pollen morphology of Indian Podostemaceae. *Curr. Sci.* 34 : 381-382.

PDS 6 Nandi, H. K. 1937
Studies in the Podostemonaceae of the Khasi hills, Assam. Part-I. *Journ. Dept. Sci. Calcutta* n.s. 1(1) : 25-51.

PDS 7 Royen, P. van 1965
Studies in the Flora of Thailand 29. Podostemonaceae. *Dansk. Bot. Ark.* 23 : 185.

PDS 8 Sprague, T. A. 1933
Podostemaceae or Podostemonaceae ? *Kew Bull.* 1933 : 46. Since the type of the genus is *Podostemum*, the correct name of the family is Podostemaceae, a conserved name vice Podostemonaceae.

PDS 9 Steenis, C. G. G. J. van 1949
Podostemaceae. *In* : van Steenis, *Fl. Males.* I, 4 : 65-68, fig. 1-2.

PDS 10 Steenis, C. G. G. J. van 1972
Podostemaceae. *In* : van Steenis, *Fl. Males.* I, 6 : 963-964.

PDS 11 Subramanyam, K., Nagendran, C. R. & Arekal, G. D. 1977
Distribution of Podostemaceae in India. *Journ. Mysore Univ.* 27B : 172-188.

PDS 12 Subramanyam, K. & Sreemadhavan, C. P. (1969) 1971
A conspectus of the families Podostemaceae and Tristichaceae. *Bull. Bot. Surv. India* 11 : 161-168, pl. 1, map 1, tab. 1. Comparison & descr. of both families, key to the genera of Tristichaceae (4) & Podostemaceae (8).

PDS 13 Taylor, G. 1953
Notes on Podostemaceae for the revision of the Flora of West Tropical Africa. *Bull. Brit. Mus.* (*Nat. Hist.*) *Bot.* 1 : 53-79.

PDS 14 Tulasne, L. R. 1849
Podostemacearum synopsis monographica. *Ann. Sci. Nat. Bot. ser.* 3, 11 : 87-114.

PDS 15 Tulasne, L. R. 1852
Podostemacearum monographia. *Arch. Mus. Hist. Nat.* (*Paris*) 6 : 1-208, p. 1-13.

PDS 16 Tuyama, T. & Hara, H. 1964
Podostemaceae in Eastern Himalayas. *Journ. Jap. Bot.* 39 : 185-188, 2 fig.

PDS 17 Warming, E. 1882
Familien Podostemonaceae. *Kongel Dansk. Videnskab. Selsk. Skrifter, Sjette Raekke* 2 : 77-130.

PDS 18 Warming, E. 1890
Podostemonaceae. *In* : Engler & Prantl, *Pflanzenf.* III (2a) : 1-22.

PDS 19 Went, F. A. F. C. 1928
Die Verbreitung der Podostemonaceen in Ost. Asien. *Rec. Trav. Bot. Neerl.* 25A : 475-482.

PDS 20 Went, F. A. F. C. 1929
Morphological and histological peculiarities of the Podostemonaceae. *Proc. Int. Cong. Plt. Sci. Ithaca* (1926) 1 : 351-358.

PDS 21 Went, F. A. F. C. 1930
On the distribution of the Podostemonaceae in eastern Asia. *Proc. Fourth Pacific Sci. Congr. Java* 3 : 421-425.

PDS 22 Willis, J. C. 1902
A revision of the Podostemaceae of India and Ceylon. *Ann. Roy. Bot. Gard. Peradeniya* 1 : 181-250.

PDS 23 Willis, J. C. 1902
On the dorsiventrality of the Podostemonaceae with reference to current views on evolution. *Ann. Bot.* 16 : 593-594.

PDS 24 Willis, J. C. 1902
Studies in the morphology and ecology of the Podostemaceae of Ceylon and India. *Ann. Roy. Bot. Gard. Peradeniya* 1 : 267-465, tab. 4-38.

PDS 25 Willis, J. C. 1915
The origin of Tristichaceae and Podostemaceae. *Ann. Bot. London* 29 : 299-306.

PDS 26 Willis, J. C. 1926
The evolution of Tristichaceae and Podostemaceae. *Ann. Bot. London* 40 : 349-367.

Dalzellia Wight

PDS 27 Bakhuizen van den Brink, R. C. 1969
Lawia, Dalzellia, Mnianthus, Terniola and *Indotristicha*. *Taxon* 18 : 598-599.

Dicraeia Thou.

PDS 28 Mukkada, A. J. 1962
Some observations on the embryology of *Dicraea stylosa* Wight. *In* : Plant Embryology: A symposium CSIR. New Delhi 139-145. Systematic importance of embryology.

PDS 29 Ramamurthy, K. & Joseph, J. (1964) 1965
A new species of *Dicraeia* from South India. *Bull. Bot. Surv. India* 6 : 333-334, fig. 6. *D. filifolia* from Kerala, descr.

Farmeria Willis

PDS 30 Arekal, G. D. & Nagendran, C. R. 1974
Additional notes on *Farmeria indica* Willis (Podostemaceae). *Proc. Indian Acad. Sci.* 80B : 226-228, fig. 13. Emended descr.

Indotristicha van Royen

PDS 31 Bakhuizen van den Brink, R. C. 1969
Lawia, Dalzellia, Mnianthus, Terniola and *Indotristicha*. *Taxon* 13 : 598-599. Nomenclatural survey—only *Dalzellia* and *Indotristicha* are legitimate names.

PDS 32 Royen, P. van 1959
Nomenclatural notes on the genera *Dalzellia, Lawia, Mnianthus* and *Terniola* (Podostemonaceae). *Acta Bot. Neerl.* 8 : 473-476. New monotypic genus *Indotristicha* based on *Terniola ramosissima* (Wt.) Wedd. from India.

PDS 33 Sharma, B. D., Karthikeyan, S. & Shetty, B. V. (1974) 1977
Indotristicha tirunelveliana Sharma, Karthik. & Shetty- a new species of Podostemaceae from South India. *Bull. Bot. Surv. India* 16 : 157-161, pl. 1, fig. 17. Descr. from Tamil Nadu.

Polypleurum (Taylor ex Tul) Warming

PDS 34 Hall, J. B. 1971
New Podostemaceae from Ghana with notes on related species. *Kew Bull.* 26(1) : 125-136. Synonymy, descr. of *Polypleurum* (Tayl. ex Tul) Warming, **Polypleurum dichotomum** (Gardn.) J. B. Hall comb. nov. for *Dicraeia dichotoma* (Gard.) Tul.; **P. stylosum** (Wt.) J. B. Hall comb. nov. for *D. stylosa* Wt.

PDS 35 Nagendran, C. R. & Arekal, G. D. 1979
A new species of *Polypleurum* (Podostemaceae) from India. *Bot. Notiser* 132(1) : 49-50. *P. munnarense* from Kerala.

PDS 36 Rao, A. S. & Hazra, P. K. (1975) 1978
Polypleurum wallichii (R. Br. ex Griff.) Warming and *Zeylanidium lichenoides* (Kurz) Engler : two interesting Podostemaceae from Meghalaya. *Bull. Bot. Surv. India* 17 : 207-209.

PDS 37 Rao, A. S. & Hazra P. K. (1979) 1981
Polypleurum stylosum (Wt.) J. B. Hall (Podostemaceae) in Kamrup District, Assam with taxonomic notes and a new combination. *Bull. Bot. Surv. India* 21 : 192-195. *Polypleurum filifolium* (Ramamurthy & Joseph) A. S. Rao & Hazra based on *Dicraeia filifolia*,

Terniola Tul.

PDS 38 Royen, P. van 1959
Nomenclatural notes on the genera *Dalzellia*, *Lawia*, *Mnianthus* and *Terniola* (Podostemaceae). *Acta Bot. Neerl.* 8 : 473-476.

Zeylanidium (Tul.) Engl.

PDS 39 Rao, A. S. & Hazra, P. K. (1970) 1972
Zeylanidium olivaceum (Gard.) Engl.-Podostemaceae : first report of its presence in Kameng district, Arunachal Pradesh. *Bull. Bot. Surv. India* 12 : 271-272.

PDS 40 Rao, A. S. & Hazra, P. K. (1975) 1978
Polypleurum wallichii (R. Br. ex Griff.) Warming and *Zeylanidium lichenoides* (Kurz) Engler : two interesting Podostemaceae from Meghalaya. *Bull. Bot. Surv. India* 17 : 207-209.

POLEMONIACEAE

The family Polemoniaceae consists of 15 genera and 300 species. The family Polemoniaceae is included in the order Polemoniales by Cronquist, Dahlgren, Bentham & Hooker, Hutchinson and Takhtajan and in the order Solanales by Thorne and in the order Tubiflorae by Engler. The family Cobaeaceae of Hutchinson is included in the family Polemoniaceae here as per the classification of Cronquist, Engler, Bentham & Hooker.

The family is mainly herbs and the leaves are usually opposite and exstipulate. The flowers are in cymes and bisexual and 5 merous. The gynoecium is 3-locular and rarely 2-5-locular and ovules one to many in each locule.

According to Harborne (1973), the presence of 6-methoxylated flavonoids of the family Polemoniaceae is quite distinct from its closely allied group of families Solanaceae and Convolvulaceae. This provides

chemical link with the Scrophulariales and Lamiales. Pollard & Amuti (1981) established the presence of fructose Oligosaccharides in the families Polemoniaceae and Boraginaceae and their absence in the families Solanaceae, Convolvulaceae, Scrophulariales and Lamiales. On the whole the chemical ties of Polemoniaceae in the presence of Caffeic esters and acylated anthocyanins are with the Solanaceae and Convolvulaceae. The whole assemblage of the above mentioned families form a close network of relationships.

GENERAL

PLM 1 Backer, C. A. 1951
Polemoniaceae. *In* : van Steenis, *Fl. Males* I, 4 : 195-196.

PLM 2 Brand, A. 1907
Polemoniaceae. *In* : Engler, *Pflanzenr.* 27 : (IV. 250) : 1-202, fig. 1-39.

PLM 3 Dawson, M. L. 1936
The floral morphology of the Polemoniaceae. *Am. Journ. Bot.* 23 : 501-511.

PLM 4 Flory, W. S. 1937
Chromosome numbers in the Polemoniaceae. *Cytologia, Fujii Jubil. Vol.* 1 : 171-180.

PLM 5 Grant, V. 1959
Natural history of the phlox family I. *Systematic Botany* 1-280. The Hague. Morphology, chrom. nos., phylogeny & taxonomic revision.

PLM 6 Gray, A. 1870
Revision of North American Polemoniaceae. *Proc. Amer. Acad.* 8 : 247-282.

PLM 7 Harborne, J. B. & Smith, D. M. 1978
Correlations between anthocyanin chemistry and pollination ecology in the Polemoniaceae. *Biochem. Syst. Ecol.* 6 : 127-130.

PLM 8 Ingram, J. 1959
Notes on the cultivated Polemoniaceae 1. A key to the genera. *Baileya* 7 : 80-86. 1959.

PLM 9 Khan, M. S. & Huq, A. M. 1975
Moringaceae, Polemoniaceae, Pedaliaceae, Basellaceae and Butomaceae. *Bangladesh Agricultural Research Council* 1-13.

PLM 10 Mason, H. L. 1942
Notes on Polemoniaceae. *Madrono* 6 : 200-205.

PLM 11 Peter, A. 1897
Polemoniaceae. *In* : Engler & Prantl, *Pflanzenf.* IV 3a, b, 40-54.

PLM 12 Stuchlik, L. 1967
Pollen morphology in the Polemoniaceae. *Grana* 7(1) : 146-240.

PLM 13 Stuchlik, L. 1967
Pollen morphology and taxonomy of the family Polemoniaceae. *Rev. Palaeobot. Palynol.* 4(1-4) : 325-333.

PLM 14 Taylor, T. N. & Levin, D. A. (1975) 1976
Pollen morphology of Polemoniaceae in relation to systematics and pollination system's scanning electron microscopy. *Grana* 15(1-3) : 91-112.

PLM 15 Wherry, E. T. 1940
A provisional key to the Polemoniaceae. *Bartonia* 20 : 14-17.

PLM 16 Wilson, K. A. 1960
The genera of Hydrophyllaceae and Polemoniaceae in the south eastern United States. *Journ. Arn. Arb.* 41 : 197-212.

Gilia Ruiz & Pav.

PLM 17 Constance, L. & Rollins, R. C. 1936
A revision of *Gilia congesta* and its allies. *Amer. Journ. Bot.* 23 : 433-440.

PLM 18 Craig, T. 1934
A revision of the subgenus *Hugelia* of the genus *Gilia* (Polemoniaceae). *Bull. Torrey Bot. Club* 61 : 385-396.

PLM 19 Kearney, T. H. & Peebles, R. H. 1943
Gilia multiflora Nutt. and its nearest relatives. *Madrono* 7 : 59-63.

PLM 20 Mason, H. L. & Grant, A. D. 1948
Some problems in the genus *Gilia*. *Madrono* 9 : 201-220.

Phlox Linn.

PLM 21 Flory, W. S. Jr. 1931
Chromosome numbers in *Phlox*. *Am. Nat.* 6 : 473-476. 25 varieties distinguished among 13 spp.

PLM 22 Flory, W. S. Jr. 1934
A cytological study of the genus *Phlox*. *Cytologia* 6 : 1-8.

PLM 23 Kelly, J. P. 1915
Cultivated varieties of *Phlox drummondii*. *Journ. New York Bot. Gard.* 16 : 179-191. Origin and history of the varieties.

PLM 24 Kelly, J. P. 1917
Further observations on *Phlox drummondii*. *Journ. New York Bot. Gard.* 18 : 83-86.

PLM 25 Kelly, J. P. 1920
Astylis *Phlox*. The relation of this variation of *Phlox drummondii* to the large eyed flower. *Journ. Hered.* 13 : 339-342.

PLM 26 Kelly, J. P. 1927
Fasciation in *Phlox drummondii*. The origin and nature of fasciation in *Phlox*. *Journ. Hered.* 18 : 323-327.

PLM 27 Kelly, J. P. 1929
Single and semi double flowers in *Phlox*. *Journ. Hered.* 20 : 549-554.

PLM 28 Kelly, J. P. 1934
The eye of *Phlox*. *Journ. Hered.* 25 : 182-186.

PLM 29 Kelly, J. P. 1940
Irregular flowers in *Phlox*. *Journ. Hered.* 31 : 169-171.

PLM 30 Keyer, J. R. 1944
Chromosome studies of *Phlox*. *Genetics* 29 : 199-216.

PLM 31 Wherry, E. T. 1946
Rock garden Phloxes. *Bull. Amer. Rock Gard. Soc.* 4 : 17-31.

PLM 32 Wherry, E. T. 1955
The genus *Phlox* 1-174. *Morris Arb. Univ. Pa. Philadelphia.* Monograph.

PLM 33 Wherry, E. T. 1956
Validation of new combinations in *Phlox*. *Baileya* 4 : 97, 98. Validation of subspecific epithets published in the monograph "*The genus Phlox*" by E. T. Wherry (1955).

PLM 34 Whitehouse, E. 1945
Annual *Phlox* species. *Am. Midl. Nat.* 34 : 388-401.

Polemonium (Tourn.) Linn.

PLM 35 Davidson, J. F. 1950
The genus *Polemonium* (Tournefort) L. *Univ. Calif. Publ. Bot.* 23 : 209-282, fig. 1-24, text maps 1-10. Monographic.

PLM 36 Klokov, M. 1955
Polemonia Eurasiatica. *Not. Syst.* (*Leningrad*) 17 : 273-323.

PLM 37 Soueges, R. 1939
Les lois du developpement Chez le *Polemonium caeruleum* L. Affinites des Polemoniacees. *Bull. Soc. Bot. France* 86 : 289-297. Allied to the Solanaceae and the Boraginaceae.

PLM 38 Vasilev, V. N. 1953
De genre *Polemonium* L. notae systematicae et geographicae. *Bot. Mat. Gerb. Bot. Inst. Komarova Akad. Nauk. SSSR* 15 : 214-228, fig. 1-6. In Russian.

PLM 39 Wherry, E. T. 1936
Polemonium and *Polemoniella* in the eastern States. *Bartonia* 20 : 14-17.

PLM 40 Wherry, E. T. 1942
The genus *Polemonium* in America. *Amer. Midl. Nat.* 27 : 741-760.

PLM 41 Wherry, E. T. 1945
Supplementary notes on the genus *Polemonium*. *Amer. Midl. Nat.* 34 : 376-380.

GENERAL ADDITIONS

PLM 42 Harborne, J. B. 1973
Flavonoids as systematic markers in the angiosperms. *In* : Bendz, G. & Stantesson, J. (*eds.*). Chemistry in botanical classification.— Nobel Foundation, Stockholm, 103-115.

PLM 43 Pollard, O. & Amuti, K. S. 1981
Fructose oligosaccharides : possible markers of phylogenetic relationships among dicotyledonous plant families. *Biochem. Syst. Ecol.* 9 : 69-78.

POLYGALACEAE

The family Polygalaceae consists of about 12 genera and 800 species which are of cosmopolitan distribution.

The family Polygalaceae is included in the order Polygalales by Cronquist, Dahlgren, Hutchinson and Takhtajan. It is included in the order Polygalinae by Bentham & Hooker. However Engler considered it in the order Rutales and Thorne included it in the order Geraniales.

The family Polygalaceae occurs from tropical to arctic zones and they are herbs, shrubs and small trees with usually exstipulate leaves. The stipules when present are usually scaly or thorny. The flowers are medially zygomorphic and calyx consists of 5 sepals and usually the two inner sepals are winged large and petaloid. The petals are 5, usually only 3 are present and they joined to form a staminal tube. The median anterior petal form a keel. The androecium is in two 5-merous whorls and the number of stamens varies from 8 to 3. The ovary is 2 locular with one pendulous ovule in each locule and rarely one locular with many ovules. The flowers adapt the papilionaceous character. The family Polygalaceae is allied to Krameriaceae differing in having a posterior petal (not a sepal) and in the basically compound leaves.

GENERAL

PGL 1 Chodat, R. 1890-1893
Monographia Polygalacearum. 1890. *Mem. Soc. Phys. Hist. Nat. Geneve Supplement* 7 : 1-143+12 plates, 1891; *ibid.* 31 : i-xii, 1-500+23 plates, 1893. Monographic.

PGL 2 Dar, M. I. 1973
Polygalaceae. *Fl. W. Pak.* No. 52 : 1-11.

PGL 3 Hasskarl, J. C. 1863-1864
Polygalaceae praesertim Indica. *In* : Miquel, *Ann. Mus. Bot. Lugd-Bat.* 1 : 142-160. 1863; 1 : 161-196. Key to genera and spp.

PGL 4 Rehder, A. & Wilson, E. H. 1914
Polygalaceae. *In* : *Sarg. Pl. Wils.* 2 : 160-162.

Polygala Linn.

PGL 5 Adema, F. 1966
A review of the herbaceous species of *Polygala* in Malesia (Polygalaceae). *Blumea* 14 : 253-276, 19 fig. Key to sections, descr. of genus, distr., notes, ecol. Key to Malaysian spp., synonymy, distr., ecol. notes.

PGL 6 Banerjee, R. N. & Banerjee, L. K. 1975
Polygala raoi (Polygalaceae)- a new species from Kanyakumari, Tamil Nadu, India. *Proc. Indian Acad. Sci.* 82B : 218-220. 7 fig. Descr.

PGL 7 Burtt, B. L. 1973
Polygala arvensis, chinensis & *glomerata. Notes Roy. Bot. Gard.* 32 : 403-404. The name *P. chinensis* is to be rejected.

PGL 8 Chandrabose, M. (1967) 1968
A new species of *Polygala* from South India. *Bull. Bot. Surv. India* 9 : 288-290, fig. 7. *P. jacobii* from Tamil Nadu, descr.

PGL 9 Craib, W. G. 1919
Polygala furcata Royle and its allies. *Notes Bot. Gard. Edinb.* 11 : 185-188. Includes a key and an enumeration of six species with *P. tartarinowii* and *P. lacei.*

PGL 10 Das, S. R. & Banerjee, R. N. 1974
A note on *Polygala crotalarioides* Buch.-Ham. ex DC. var. *glabrescens* Coll. et Hemsl. *Sci.* & *Cult.* 40 : 252-253.

PGL 11 Larson, D. A. & Skvarla, J. J. 1961
The morphology and fine structure of pollen of *Polygala alba* Nutt. and *P. incarnata* L. *Pollen et Spores* 3(1) : 21-32.

PGL 12 Mukherjee, S. K. 1955
A new *Polygala* from South India. *Journ. Bombay Nat. Hist. Soc.* 53 : 54-56. *P. ramaswamiana* sp. nov.

PGL 13 Mukherjee, S. K. (1958) 1960
A synopsis of Indian and Burmese *Polygala*. *Bull. Bot. Soc. Bengal* 12 : 29-49, pl. 1. Descr. of genus, key to 30 spp.

PGL 14 Panigrahi, G. 1974
Notes on *Polygala* from India. *Kew Bull.* 29 : 655-657, 1 fig. 2 reductions. *Polygala dunnii* sp. nov. from Tamil Nadu.

PGL 15 Patel, R. M. 1959
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POLYGONACEAE

The family Polygonaceae consists of about 40 genera and 800 species occurring chiefly in the temperate zones and few species occur in the tropical and arctic zones.

The family Polygonaceae is included in the order Polygonales by Cronquist, Engler, Dahlgren, Hutchinson and Takhtajan. However it is included in the order Chenopodiales by Thorne, while Bentham & Hooker included it in the order Curvembryae.

The family Polygonaceae is mostly herbs, shrubs and a few species are trees. The family is characterised by sheathing stipule called ochrea, clasping the stems. The inflorescence is usually racemose or cymose. The flowers are bisexual and regular. The perianth usually 3+3 and the stamens are 3+3. The gynoecium

is 3-carpelled and the ovary is 1-locular with one erect ovule and there are three styles. The fruit is a triangular nut with mealy endosperm, which is sometimes ruminate.

According to Dammer (1892) the family is classified into the following subfamilies: Rumicoideae, Polygonoideae and Coccoloboideae based on the nature of cyclic or acyclic flowers and presence or absence of ruminate endosperm.

According to the presence of flavonoids, Young (1981) indicates similarity between Caryophyllaceae in particular and Polygonales and also Plumbaginales. Boulter (1973) on the basis of the aminoacid sequence of cytochrome C postulates the affinity of Caryophyllales and Polygonales. In general it is considered by Cronquist, Takhtajan and Thorne that the family Polygonaceae arose from the general group of Caryophyllales.

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